



PROY. 003-2026 PATINODROMOS - CALAMAR
BAÑOS
MEMORIA DE MUROS DE MAMPOSTERÍA

NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE1	M-1	7.9519	2.6853	2.2088	-0.0503	0.0247	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE1	M-1	35.5408	4.1623	2.2088	0.0261	0.0247	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE2	M-1	10.153	3.7058	3.048	-0.0682	0.0334	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE2	M-1	33.8007	5.7435	3.048	0.0354	0.0334	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE3	M-1	6.8159	2.3017	1.8933	-0.0431	0.0211	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE3	M-1	30.4636	3.5677	1.8933	0.0224	0.0211	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE4	M-1	6.8159	2.3017	1.8933	-0.0431	0.0211	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE4	M-1	30.4636	3.5677	1.8933	0.0224	0.0211	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE5	M-1	8.9016	3.1793	2.615	-0.0588	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE5	M-1	32.5493	4.9276	2.615	0.0305	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE6	M-1	8.9016	3.1793	2.615	-0.0588	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE6	M-1	32.5493	4.9276	2.615	0.0305	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE7	M-1	8.9016	3.1793	2.615	-0.0588	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE7	M-1	32.5493	4.9276	2.615	0.0305	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8	M-1	5.4794	10.5642	13.0115	-0.0404	0.0345	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8	M-1	29.1271	24.2937	13.0115	0.046	0.0345	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8	M-1	10.2381	16.0452	8.5033	-0.0615	0.0154	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8	M-1	33.8857	15.7984	8.5033	0.007	0.0154	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9	M-1	2.0407	4.4525	7.9452	-0.0248	0.0485	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9	M-1	25.6884	14.6983	7.9452	0.0745	0.0485	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9	M-1	13.6768	9.9335	3.4369	-0.0771	0.0014	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9	M-1	37.3245	6.203	3.4369	-0.0216	0.0014	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE10	M-1	7.6148	2.7794	2.286	-0.0512	0.0251	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE10	M-1	25.3505	4.3076	2.286	0.0266	0.0251	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE11	M-1	7.6148	2.7794	2.286	-0.0512	0.0251	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE11	M-1	25.3505	4.3076	2.286	0.0266	0.0251	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12	M-1	2.7326	11.5784	12.1774	-0.0218	0.0254	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12	M-1	20.4684	22.7218	12.1774	0.0363	0.0254	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12	M-1	7.4913	15.031	9.3375	-0.0429	0.0063	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12	M-1	25.227	17.3702	9.3375	-0.0027	0.0063	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13	M-1	0.7061	5.4667	7.111	-0.0062	0.0394	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13	M-1	17.0296	13.1265	7.111	0.0649	0.0394	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13	M-1	10.93	8.9193	4.2711	-0.0585	-0.0077	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13	M-1	28.6657	7.7749	4.2711	-0.0313	-0.0077	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8-	M-1	6.8559	3.3587	2.7453	-0.0469	0.0212	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8-	M-1	30.5036	5.1525	2.7453	0.0185	0.0212	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8+	M-1	8.8616	8.8397	7.2535	-0.055	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE8+	M-1	32.5092	13.6478	7.2535	0.0344	0.0288	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9-	M-1	4.6108	0.44	0.3823	-0.0365	0.0119	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9-	M-1	28.2585	0.745	0.3823	-0.0003	0.0119	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9+	M-1	11.1067	5.041	4.126	-0.0654	0.0381	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE9+	M-1	34.7544	7.7503	4.126	0.0532	0.0381	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12-	M-1	4.1091	4.3729	3.5794	-0.0283	0.012	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12-	M-1	21.8449	6.7243	3.5794	0.0088	0.012	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12+	M-1	6.1148	7.8255	6.4193	-0.0364	0.0197	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE12+	M-1	23.8505	12.0759	6.4193	0.0248	0.0197	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13-	M-1	1.864	0.5742	0.4519	-0.0179	0.0028	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13-	M-1	19.5997	0.8269	0.4519	-0.01	0.0028	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13+	M-1	8.3599	4.0268	3.2918	-0.0468	0.0289	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE13+	M-1	26.0956	6.1785	3.2918	0.0436	0.0289	3200	150	3100	480000	0.86	400	150	140	90	110	8	16.00	8	4	4.0
CUBIERTA	DISE1	M-2	10.314	8.4195	5.061	0.0078	-0.0036	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE1	M-2	22.1211	7.2681	5.061	-0.0034	-0.0036	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0



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		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE2	M-2	13.5606	11.3953	6.8477	0.0114	-0.0054	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE2	M-2	23.681	9.8306	6.8477	-0.0051	-0.0054	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE3	M-2	8.8406	7.2167	4.338	0.0067	-0.0031	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE3	M-2	18.961	6.2298	4.338	-0.003	-0.0031	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE4	M-2	8.8406	7.2167	4.338	0.0067	-0.0031	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE4	M-2	18.961	6.2298	4.338	-0.003	-0.0031	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE5	M-2	11.7906	9.8283	5.9065	0.0097	-0.0045	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE5	M-2	21.911	8.4803	5.9065	-0.0043	-0.0045	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE6	M-2	11.7906	9.8283	5.9065	0.0097	-0.0045	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE6	M-2	21.911	8.4803	5.9065	-0.0043	-0.0045	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE7	M-2	11.7906	9.8283	5.9065	0.0097	-0.0045	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE7	M-2	21.911	8.4803	5.9065	-0.0043	-0.0045	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8	M-2	8.1156	10.1868	3.757	0.0141	0.0008	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8	M-2	18.2359	4.7838	3.757	0.0053	0.0008	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8	M-2	12.5156	6.8582	6.4875	0.0022	-0.0084	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8	M-2	22.636	9.9264	6.4875	-0.0126	-0.0084	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9	M-2	7.3764	9.8755	4.1675	0.021	0.0068	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9	M-2	17.4968	5.7448	4.1675	0.0177	0.0068	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9	M-2	13.2548	7.1695	6.077	-0.0047	-0.0145	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9	M-2	23.3751	8.9653	6.077	-0.0249	-0.0145	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE10	M-2	10.1705	8.5465	5.1358	0.0086	-0.004	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE10	M-2	17.7608	7.373	5.1358	-0.0038	-0.004	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE11	M-2	10.1705	8.5465	5.1358	0.0086	-0.004	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE11	M-2	17.7608	7.373	5.1358	-0.0038	-0.004	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12	M-2	4.4304	7.0768	1.8883	0.011	0.0023	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12	M-2	12.0207	2.101	1.8883	0.0068	0.0023	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12	M-2	8.8305	3.7482	4.6187	-0.001	-0.0069	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12	M-2	16.4208	7.2437	4.6187	-0.0112	-0.0069	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE13	M-2	3.6913	6.7655	2.2987	0.0178	0.0083	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE13	M-2	11.2816	3.0621	2.2987	0.0191	0.0083	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE13	M-2	9.5696	4.0596	4.2082	-0.0079	-0.013	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE13	M-2	17.1599	6.2826	4.2082	-0.0235	-0.013	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8-	M-2	9.8613	9.1786	5.7102	0.0092	-0.0051	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8-	M-2	19.9817	8.5228	5.7102	-0.0067	-0.0051	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8+	M-2	10.7699	7.8664	4.5343	0.0071	-0.0025	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE8+	M-2	20.8903	6.1873	4.5343	-0.0005	-0.0025	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9-	M-2	11.4482	8.2892	5.0448	0.0149	-0.0096	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9-	M-2	21.5686	7.3486	5.0448	-0.0154	-0.0096	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9+	M-2	9.183	8.7559	5.1998	0.0014	0.002	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE9+	M-2	19.3033	7.3616	5.1998	0.0082	0.002	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12-	M-2	6.1761	6.0686	3.8415	0.006	-0.0036	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12-	M-2	13.7664	5.8401	3.8415	-0.0053	-0.0036	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12+	M-2	7.0847	4.7564	2.6655	0.004	-0.001	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE12+	M-2	14.675	3.5046	2.6655	0.0009	-0.001	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE13-	M-2	7.7631	5.1792	3.176	0.0118	-0.0081	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE13-	M-2	15.3534	4.6659	3.176	-0.014	-0.0081	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE13+	M-2	5.4978	5.6459	3.331	-0.0018	0.0035	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE13+	M-2	13.0881	4.6789	3.331	0.0096	0.0035	450	150	3100	67500	0.86	400	150	140	90	110	1.125	2.25	1.125	2	2.0
CUBIERTA	DISE1	M-3	13.2565	4.1244	2.8858	0.0452	-0.0216	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE1	M-3	40.8454	4.8221	2.8858	-0.0216	-0.0216	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE2	M-3	16.8318	5.3168	3.7968	0.0587	-0.028	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE2	M-3	40.4794	6.454	3.7968	-0.028	-0.028	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE3	M-3	11.3627	3.5352	2.4736	0.0387	-0.0185	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE3	M-3	35.0104	4.1332	2.4736	-0.0185	-0.0185	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE4	M-3	11.3627	3.5352	2.4736	0.0387	-0.0185	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE4	M-3	35.0104	4.1332	2.4736	-0.0185	-0.0185	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE5	M-3	14.7809	4.6487	3.3006	0.0512	-0.0244	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE5	M-3	38.4285	5.5837	3.3006	-0.0245	-0.0244	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE6	M-3	14.7809	4.6487	3.3006	0.0512	-0.0244	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE6	M-3	38.4285	5.5837	3.3006	-0.0245	-0.0244	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE7	M-3	14.7809	4.6487	3.3006	0.0512	-0.0244	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE7	M-3	38.4285	5.5837	3.3006	-0.0245	-0.0244	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE8	M-3	8.4838	1.5255	9.1573	0.0701	-0.0049	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE8	M-3	32.1315	18.6967	9.1573	0.0053	-0.0049	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE8	M-3	17.6598	9.7094	3.3831	0.0198	-0.038	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE8	M-3	41.3075	8.9798	3.3831	-0.0483	-0.038	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9	M-3	8.9884	0.1015	6.1734	0.104	0.0179	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9	M-3	32.6361	10.8885	6.1734	0.043	0.0179	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9	M-3	17.1552	8.2855	0.3992	-0.0141	-0.0608	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9	M-3	40.8029	1.1716	0.3992	-0.086	-0.0608	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE10	M-3	12.6238	3.9876	2.8476	0.044	-0.021	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE10	M-3	30.3596	4.8405	2.8476	-0.021	-0.021	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE11	M-3	12.6238	3.9876	2.8476	0.044	-0.021	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE11	M-3	30.3596	4.8405	2.8476	-0.021	-0.021	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12	M-3	3.934	2.966	8.1254	0.0542	0.0027	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12	M-3	21.6698	16.9382	8.1254	0.0129	0.0027	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12	M-3	13.11	8.2689	4.4151	0.0039	-0.0304	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12	M-3	30.8458	10.7383	4.4151	-0.0407	-0.0304	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13	M-3	4.4386	1.5421	5.1415	0.0881	0.0255	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13	M-3	22.1744	9.13	5.1415	0.0506	0.0255	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13	M-3	12.6054	6.8449	1.4311	-0.03	-0.0532	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13	M-3	30.3412	2.9302	1.4311	-0.0784	-0.0532	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE8-	M-3	14.6913	1.8175	0.189	0.0544	-0.0278	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE8-	M-3	38.3389	2.4046	0.189	-0.0322	-0.0278	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE8+	M-3	11.4524	6.3665	5.9632	0.0355	-0.0151	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE8+	M-3	35.1	12.1215	5.9632	-0.0108	-0.0151	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9-	M-3	12.239	4.5447	2.4462	0.078	-0.0435	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9-	M-3	35.8866	3.0383	2.4462	-0.0575	-0.0435	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9+	M-3	13.9046	3.6392	3.328	0.0119	0.0006	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE9+	M-3	37.5523	6.6786	3.328	0.0146	0.0006	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12-	M-3	10.1415	0.3769	1.2209	0.0385	-0.0203	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12-	M-3	27.8772	4.1632	1.2209	-0.0246	-0.0203	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12+	M-3	6.9026	4.9259	4.9313	0.0196	-0.0075	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE12+	M-3	24.6383	10.363	4.9313	-0.0032	-0.0075	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13-	M-3	7.6892	3.1041	1.4143	0.0621	-0.0359	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13-	M-3	25.4249	1.2798	1.4143	-0.0499	-0.0359	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13+	M-3	9.3549	2.1987	2.2961	-0.004	0.0081	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE13+	M-3	27.0906	4.92	2.2961	0.0222	0.0081	1220	150	3100	183000	0.86	400	150	140	90	110	3.05	6.10	3.05	2	2.0
CUBIERTA	DISE1	M-4	12.4422	3.7062	2.669	0.0126	-0.0058	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE1	M-4	40.0311	4.5683	2.669	-0.0053	-0.0058	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE2	M-4	15.9374	4.985	3.6171	0.0172	-0.0079	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE2	M-4	39.585	6.2285	3.6171	-0.0073	-0.0079	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE3	M-4	10.6647	3.1767	2.2877	0.0108	-0.005	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE3	M-4	34.3124	3.9156	2.2877	-0.0045	-0.005	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE4	M-4	10.6647	3.1767	2.2877	0.0108	-0.005	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE4	M-4	34.3124	3.9156	2.2877	-0.0045	-0.005	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE5	M-4	13.9601	4.3069	3.1186	0.0148	-0.0068	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE5	M-4	37.6078	5.3612	3.1186	-0.0062	-0.0068	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE6	M-4	13.9601	4.3069	3.1186	0.0148	-0.0068	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE6	M-4	37.6078	5.3612	3.1186	-0.0062	-0.0068	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE7	M-4	13.9601	4.3069	3.1186	0.0148	-0.0068	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE7	M-4	37.6078	5.3612	3.1186	-0.0062	-0.0068	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE8	M-4	10.5038	5.4941	10.6777	0.0196	0.001	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE8	M-4	34.1514	20.1412	10.6777	0.0107	0.001	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE8	M-4	14.1211	12.9777	5.2714	0.0059	-0.0127	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE8	M-4	37.7687	10.8644	5.2714	-0.0215	-0.0127	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9	M-4	8.7319	1.0393	6.2313	0.0245	0.0103	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9	M-4	32.3796	10.8434	6.2313	0.0349	0.0103	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9	M-4	15.8929	8.523	0.825	0.001	-0.022	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9	M-4	39.5405	1.5665	0.825	-0.0457	-0.022	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE10	M-4	11.953	3.7388	2.7128	0.0129	-0.0059	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE10	M-4	29.6888	4.6714	2.7128	-0.0055	-0.0059	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE11	M-4	11.953	3.7388	2.7128	0.0129	-0.0059	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE11	M-4	29.6888	4.6714	2.7128	-0.0055	-0.0059	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE12	M-4	6.1899	6.8534	9.6903	0.0149	0.0032	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE12	M-4	23.9256	18.4395	9.6903	0.0127	0.0032	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE12	M-4	9.8072	11.6185	6.2587	0.0012	-0.0106	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE12	M-4	27.5429	12.5661	6.2587	-0.0195	-0.0106	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13	M-4	4.418	2.3986	5.2439	0.0198	0.0125	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13	M-4	22.1538	9.1417	5.2439	0.0369	0.0125	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13	M-4	11.579	7.1637	1.8123	-0.0037	-0.0199	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13	M-4	29.3147	3.2682	1.8123	-0.0437	-0.0199	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE8-	M-4	13.1981	1.3273	1.7209	0.0127	-0.0077	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE8-	M-4	36.8457	4.0086	1.7209	-0.0113	-0.0077	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE8+	M-4	11.4267	8.8109	7.1272	0.0129	-0.0041	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE8+	M-4	35.0744	13.2854	7.1272	0.0005	-0.0041	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9-	M-4	14.2892	1.2497	0.8544	0.0178	-0.0143	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9-	M-4	37.9369	1.3989	0.8544	-0.0274	-0.0143	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9+	M-4	10.3356	6.234	4.5519	0.0077	0.0026	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE9+	M-4	33.9833	7.878	4.5519	0.0167	0.0026	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE12-	M-4	8.8842	2.6866	2.7083	0.008	-0.0055	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE12-	M-4	26.62	5.7103	2.7083	-0.0093	-0.0055	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE12+	M-4	7.1128	7.4517	6.1399	0.0082	-0.0019	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE12+	M-4	24.8486	11.5837	6.1399	0.0025	-0.0019	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13-	M-4	9.9753	0.1096	0.133	0.0131	-0.0122	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13-	M-4	27.7111	0.3028	0.133	-0.0255	-0.0122	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13+	M-4	6.0217	4.8747	3.5646	0.003	0.0048	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE13+	M-4	23.7575	6.1763	3.5646	0.0186	0.0048	1230	150	3100	184500	0.86	400	150	140	90	110	3.075	6.15	3.075	2	2.0
CUBIERTA	DISE1	M-5	10.2775	8.4181	5.0608	-0.0103	0.0051	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE1	M-5	22.1152	7.2689	5.0608	0.0056	0.0051	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE2	M-5	13.5199	11.3898	6.8454	-0.0148	0.0073	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE2	M-5	23.6665	9.8291	6.8454	0.008	0.0073	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE3	M-5	8.8093	7.2155	4.3378	-0.0088	0.0044	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE3	M-5	18.9559	6.2305	4.3378	0.0048	0.0044	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE4	M-5	8.8093	7.2155	4.3378	-0.0088	0.0044	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE4	M-5	18.9559	6.2305	4.3378	0.0048	0.0044	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE5	M-5	11.7534	9.8245	5.905	-0.0126	0.0062	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE5	M-5	21.9	8.4796	5.905	0.0068	0.0062	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE6	M-5	11.7534	9.8245	5.905	-0.0126	0.0062	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE6	M-5	21.9	8.4796	5.905	0.0068	0.0062	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE7	M-5	11.7534	9.8245	5.905	-0.0126	0.0062	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE7	M-5	21.9	8.4796	5.905	0.0068	0.0062	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-5	7.8827	10.2482	3.7291	-0.0035	0.0107	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-5	18.0293	4.7636	3.7291	0.0156	0.0107	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-5	12.68	6.7918	6.5138	-0.0179	-3.453E-05	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-5	22.8266	9.9464	6.5138	-0.0041	-3.453E-05	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9	M-5	7.3706	9.84	4.1957	0.0031	0.0165	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9	M-5	17.5172	5.8015	4.1957	0.0277	0.0165	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE9	M-5	13.1921	7.2	6.0472	-0.0245	-0.0059	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9	M-5	23.3387	8.9085	6.0472	-0.0161	-0.0059	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE10	M-5	10.1399	8.5424	5.134	-0.0111	0.0055	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE10	M-5	17.7499	7.3718	5.134	0.006	0.0055	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE11	M-5	10.1399	8.5424	5.134	-0.0111	0.0055	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE11	M-5	17.7499	7.3718	5.134	0.006	0.0055	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12	M-5	4.2083	7.1398	1.861	0.0006	0.0086	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12	M-5	11.8183	2.0814	1.861	0.0134	0.0086	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12	M-5	9.0056	3.6834	4.6457	-0.0138	-0.0021	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12	M-5	16.6155	7.2642	4.6457	-0.0063	-0.0021	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-5	3.6962	6.7317	2.3276	0.0072	0.0145	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-5	11.3062	3.1193	2.3276	0.0255	0.0145	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-5	9.5177	4.0916	4.1791	-0.0204	-0.0079	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-5	17.1277	6.2264	4.1791	-0.0183	-0.0079	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8-	M-5	8.9493	9.4915	5.8986	-0.0072	0.0029	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8-	M-5	19.096	8.7938	5.8986	0.0015	0.0029	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8+	M-5	11.6134	7.5485	4.3443	-0.0142	0.0078	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8+	M-5	21.76	5.9162	4.3443	0.0101	0.0078	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9-	M-5	8.5996	9.2726	5.6387	-0.0028	-0.0011	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9-	M-5	18.7462	8.2065	5.6387	-0.0066	-0.0011	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9+	M-5	11.9631	7.7674	4.6041	-0.0186	0.0117	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9+	M-5	22.1098	6.5035	4.6041	0.0182	0.0117	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12-	M-5	5.2749	6.3831	4.0305	-0.0032	0.0008	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12-	M-5	12.8849	6.1117	4.0305	-0.0007	0.0008	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12+	M-5	7.939	4.4402	2.4762	-0.0101	0.0058	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12+	M-5	15.5489	3.234	2.4762	0.0079	0.0058	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13-	M-5	4.9252	6.1643	3.7707	0.0013	-0.0031	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13-	M-5	12.5351	5.5243	3.7707	-0.0088	-0.0031	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE13+	M-5	8.2888	4.659	2.736	-0.0145	0.0097	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13+	M-5	15.8987	3.8214	2.736	0.016	0.0097	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE1	M-6	7.6602	2.4406	2.0202	0.0491	-0.0235	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE1	M-6	35.2492	3.8223	2.0202	-0.0236	-0.0235	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE2	M-6	9.761	3.3515	2.7752	0.0666	-0.0318	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE2	M-6	33.4087	5.2521	2.7752	-0.032	-0.0318	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE3	M-6	6.5659	2.092	1.7316	0.0421	-0.0201	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE3	M-6	30.2136	3.2762	1.7316	-0.0202	-0.0201	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE4	M-6	6.5659	2.092	1.7316	0.0421	-0.0201	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE4	M-6	30.2136	3.2762	1.7316	-0.0202	-0.0201	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE5	M-6	8.5629	2.8792	2.3838	0.0574	-0.0274	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE5	M-6	32.2105	4.5112	2.3838	-0.0276	-0.0274	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE6	M-6	8.5629	2.8792	2.3838	0.0574	-0.0274	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE6	M-6	32.2105	4.5112	2.3838	-0.0276	-0.0274	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE7	M-6	8.5629	2.8792	2.3838	0.0574	-0.0274	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE7	M-6	32.2105	4.5112	2.3838	-0.0276	-0.0274	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8	M-6	5.1983	9.7642	12.0004	0.0609	-0.014	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8	M-6	28.8459	22.4689	12.0004	-0.0041	-0.014	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8	M-6	9.9305	14.7353	7.885	0.0386	-0.0336	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8	M-6	33.5782	14.6815	7.885	-0.0437	-0.0336	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9	M-6	1.7471	4.3384	7.4607	0.0764	0.0001	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9	M-6	25.3948	13.8206	7.4607	0.0245	0.0001	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9	M-6	13.3816	9.3096	3.3453	0.0231	-0.0476	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9	M-6	37.0293	6.0331	3.3453	-0.0722	-0.0476	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE10	M-6	7.3208	2.5136	2.0814	0.05	-0.0239	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE10	M-6	25.0565	3.9391	2.0814	-0.024	-0.0239	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE11	M-6	7.3208	2.5136	2.0814	0.05	-0.0239	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE11	M-6	25.0565	3.9391	2.0814	-0.024	-0.0239	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE12	M-6	2.5583	10.6807	11.2414	0.0427	-0.0053	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE12	M-6	20.294	21.0324	11.2414	0.0047	-0.0053	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE12	M-6	7.2906	13.8187	8.644	0.0205	-0.0249	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE12	M-6	25.0263	16.118	8.644	-0.035	-0.0249	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13	M-6	0.8928	5.255	6.7017	0.0583	0.0087	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13	M-6	16.8429	12.384	6.7017	0.0332	0.0087	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13	M-6	10.7417	8.393	4.1044	0.0049	-0.0389	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13	M-6	28.4774	7.4697	4.1044	-0.0635	-0.0389	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8-	M-6	8.5415	3.1884	2.613	0.0547	-0.028	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8-	M-6	32.1892	4.9125	2.613	-0.0323	-0.028	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8+	M-6	6.5872	8.1595	6.7284	0.0449	-0.0195	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE8+	M-6	30.2349	12.7	6.7284	-0.0155	-0.0195	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9-	M-6	10.8055	0.8878	0.7293	0.0647	-0.0371	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9-	M-6	34.4532	1.3731	0.7293	-0.0509	-0.0371	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9+	M-6	4.3233	4.0833	3.3861	0.0348	-0.0104	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE9+	M-6	27.9709	6.4144	3.3861	0.0031	-0.0104	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE12-	M-6	5.9016	4.105	3.372	0.0365	-0.0193	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE12-	M-6	23.6373	6.3491	3.372	-0.0236	-0.0193	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE12+	M-6	3.9473	7.2429	5.9693	0.0267	-0.0108	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE12+	M-6	21.683	11.2634	5.9693	-0.0067	-0.0108	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13-	M-6	8.1656	0.0288	0.0297	0.0465	-0.0284	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13-	M-6	25.9013	0.0635	0.0297	-0.0422	-0.0284	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13+	M-6	1.6833	3.1667	2.6271	0.0166	-0.0018	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE13+	M-6	19.419	4.9778	2.6271	0.0119	-0.0018	1550	150	3100	232500	0.86	400	150	140	90	110	3.875	7.75	3.875	3	3.0
CUBIERTA	DISE1	M-7	17.2459	8.7765	2.8424	-0.1672	0.0735	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE1	M-7	63.2646	0.0345	2.8424	0.0596	0.0735	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE2	M-7	22.1028	11.5896	3.7458	-0.2282	0.1002	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE2	M-7	61.5473	0.0221	3.7458	0.0811	0.1002	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE3	M-7	14.7822	7.5227	2.4363	-0.1433	0.063	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE3	M-7	54.2268	0.0296	2.4363	0.0511	0.063	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE4	M-7	14.7822	7.5227	2.4363	-0.1433	0.063	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE4	M-7	54.2268	0.0296	2.4363	0.0511	0.063	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE5	M-7	19.3576	10.0645	3.2548	-0.1964	0.0862	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE5	M-7	58.8021	0.0249	3.2548	0.0699	0.0862	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE6	M-7	19.3576	10.0645	3.2548	-0.1964	0.0862	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE6	M-7	58.8021	0.0249	3.2548	0.0699	0.0862	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE7	M-7	19.3576	10.0645	3.2548	-0.1964	0.0862	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE7	M-7	58.8021	0.0249	3.2548	0.0699	0.0862	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8	M-7	8.7853	16.8797	2.092	-0.1476	0.1189	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8	M-7	48.2299	9.2128	2.092	0.1798	0.1189	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8	M-7	25.3545	0.7075	7.7831	-0.1921	0.0303	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8	M-7	64.799	9.2673	7.7831	-0.0589	0.0303	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9	M-7	12.9945	19.4485	7.1224	-0.156	0.0968	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9	M-7	52.4391	20.9634	7.1224	0.1179	0.0968	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9	M-7	21.1453	1.8613	12.8136	-0.1837	0.0524	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9	M-7	60.5898	21.0179	12.8136	0.0031	0.0524	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE10	M-7	16.5771	8.6922	2.8094	-0.1711	0.0751	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE10	M-7	46.1605	0.0166	2.8094	0.0608	0.0751	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE11	M-7	16.5771	8.6922	2.8094	-0.1711	0.0751	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE11	M-7	46.1605	0.0166	2.8094	0.0608	0.0751	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12	M-7	2.8021	13.7281	3.1103	-0.0853	0.0915	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12	M-7	32.3855	9.2179	3.1103	0.1577	0.0915	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12	M-7	19.3712	2.444	6.7648	-0.1297	0.003	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12	M-7	48.9547	9.2623	6.7648	-0.081	0.003	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE13	M-7	7.0113	16.297	8.1407	-0.0937	0.0695	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE13	M-7	36.5947	20.9685	8.1407	0.0957	0.0695	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE13	M-7	15.162	5.0129	11.7952	-0.1213	0.025	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE13	M-7	44.7455	21.0129	11.7952	-0.019	0.025	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8-	M-7	21.1139	7.8045	3.6551	-0.1803	0.0967	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8-	M-7	60.5585	3.5262	3.6551	0.1206	0.0967	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8+	M-7	13.0259	9.7827	2.036	-0.1594	0.0525	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE8+	M-7	52.4704	3.4718	2.036	0.0004	0.0525	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9-	M-7	18.117	13.3933	8.1435	-0.1744	0.082	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9-	M-7	57.5616	11.8525	8.1435	0.0793	0.082	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9+	M-7	16.0227	4.1939	2.4524	-0.1653	0.0673	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE9+	M-7	55.4673	11.798	2.4524	0.0417	0.0673	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12-	M-7	15.1307	4.653	2.6368	-0.118	0.0693	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12-	M-7	44.7141	3.5212	2.6368	0.0984	0.0693	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12+	M-7	7.0427	6.6311	1.0177	-0.097	0.0252	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE12+	M-7	36.6261	3.4768	1.0177	-0.0218	0.0252	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE13-	M-7	12.1338	10.2418	7.1252	-0.1121	0.0546	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE13-	M-7	41.7172	11.8474	7.1252	0.0572	0.0546	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE13+	M-7	10.0395	1.0423	3.4707	-0.1029	0.0399	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE13+	M-7	39.6229	11.8031	3.4707	0.0195	0.0399	4000	150	3100	600000	0.86	400	150	140	90	110	10	20.00	10	5	5.0
CUBIERTA	DISE1	M-8	5.3844	2.1303	1.2942	-0.0068	0.0013	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE1	M-8	17.2582	1.8816	1.2942	-0.003	0.0013	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE2	M-8	6.831	2.8644	1.7401	-0.0096	0.002	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE2	M-8	17.0085	2.5298	1.7401	-0.0039	0.002	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE3	M-8	4.6152	1.826	1.1093	-0.0058	0.0011	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE3	M-8	14.7927	1.6128	1.1093	-0.0025	0.0011	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE4	M-8	4.6152	1.826	1.1093	-0.0058	0.0011	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE4	M-8	14.7927	1.6128	1.1093	-0.0025	0.0011	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE5	M-8	6.0001	2.475	1.5036	-0.0082	0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE5	M-8	16.1776	2.1859	1.5036	-0.0034	0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE6	M-8	6.0001	2.475	1.5036	-0.0082	0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE6	M-8	16.1776	2.1859	1.5036	-0.0034	0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE7	M-8	6.0001	2.475	1.5036	-0.0082	0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE7	M-8	16.1776	2.1859	1.5036	-0.0034	0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8	M-8	1.0374	3.6749	0.3212	0.007	0.016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8	M-8	11.2149	0.3678	0.3212	0.0294	0.016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8	M-8	9.5779	0.6261	2.2917	-0.021	-0.0132	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8	M-8	19.7554	3.4309	2.2917	-0.0354	-0.0132	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE9	M-8	3.1728	3.4007	0.3581	-0.0011	0.0069	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE9	M-8	13.3503	0.2076	0.3581	0.0087	0.0069	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE9	M-8	7.4425	0.9004	2.2549	-0.0129	-0.0041	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE9	M-8	17.62	3.5911	2.2549	-0.0146	-0.0041	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE10	M-8	5.1233	2.1483	1.3051	-0.0072	0.0015	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE10	M-8	12.7564	1.8973	1.3051	-0.0029	0.0015	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE11	M-8	5.1233	2.1483	1.3051	-0.0072	0.0015	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE11	M-8	12.7564	1.8973	1.3051	-0.0029	0.0015	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12	M-8	0.8088	2.8939	0.1532	0.0097	0.0155	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12	M-8	6.8243	0.3219	0.1532	0.0305	0.0155	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12	M-8	7.7317	0.1549	1.8172	-0.0184	-0.0138	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12	M-8	15.3648	2.7411	1.8172	-0.0343	-0.0138	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13	M-8	1.3265	2.6196	0.1164	0.0016	0.0064	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13	M-8	8.9596	0.4821	0.1164	0.0098	0.0064	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13	M-8	5.5963	0.1193	1.7804	-0.0103	-0.0047	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13	M-8	13.2294	2.9013	1.7804	-0.0136	-0.0047	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8-	M-8	7.4365	1.5938	1.001	-0.0148	0.0096	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8-	M-8	17.614	1.5094	1.001	0.0154	0.0096	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8+	M-8	3.1788	2.7072	1.6119	0.0008	-0.0068	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE8+	M-8	13.3563	2.2893	1.6119	-0.0213	-0.0068	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE9-	M-8	5.5598	2.4238	1.5843	-0.0101	0.0043	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE9-	M-8	15.7373	2.4878	1.5843	0.0033	0.0043	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE9+	M-8	5.0555	1.8773	1.0286	-0.0039	-0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE9+	M-8	15.233	1.3109	1.0286	-0.0092	-0.0016	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12-	M-8	5.5903	0.8128	0.5266	-0.0122	0.0091	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12-	M-8	13.2234	0.8196	0.5266	0.0164	0.0091	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12+	M-8	1.3325	1.9262	1.1374	0.0035	-0.0074	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE12+	M-8	8.9656	1.5996	1.1374	-0.0202	-0.0074	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13-	M-8	3.7136	1.6427	1.1098	-0.0075	0.0038	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13-	M-8	11.3467	1.798	1.1098	0.0044	0.0038	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13+	M-8	3.2093	1.0962	0.5542	-0.0012	-0.0021	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE13+	M-8	10.8424	0.6212	0.5542	-0.0082	-0.0021	640	150	3100	96000	0.86	400	150	140	90	110	1.6	3.20	1.6	2	2.0
CUBIERTA	DISE1	M-9	16.9671	9.8501	3.6711	-0.1604	0.0699	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE1	M-9	62.1309	1.5301	3.6711	0.0553	0.0699	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE2	M-9	21.7196	13.0337	4.8634	-0.2188	0.0952	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE2	M-9	60.4315	2.0426	4.8634	0.075	0.0952	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE3	M-9	14.5432	8.443	3.1467	-0.1375	0.0599	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE3	M-9	53.2551	1.3115	3.1467	0.0474	0.0599	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE4	M-9	14.5432	8.443	3.1467	-0.1375	0.0599	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE4	M-9	53.2551	1.3115	3.1467	0.0474	0.0599	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE5	M-9	19.0285	11.3121	4.2196	-0.1883	0.082	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE5	M-9	57.7403	1.7684	4.2196	0.0647	0.082	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE6	M-9	19.0285	11.3121	4.2196	-0.1883	0.082	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE6	M-9	57.7403	1.7684	4.2196	0.0647	0.082	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE7	M-9	19.0285	11.3121	4.2196	-0.1883	0.082	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE7	M-9	57.7403	1.7684	4.2196	0.0647	0.082	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE8	M-9	7.9108	0.6131	9.4575	-0.1393	0.1172	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE8	M-9	46.6227	10.8253	9.4575	0.1802	0.1172	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0



NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE8	M-9	25.6608	19.142	2.0912	-0.1864	0.0247	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE8	M-9	64.3727	7.7454	2.0912	-0.0681	0.0247	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9	M-9	12.5157	0.7229	13.6011	-0.1484	0.094	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9	M-9	51.2276	21.9903	13.6011	0.1153	0.094	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9	M-9	21.056	20.478	6.2348	-0.1773	0.0479	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9	M-9	59.7678	18.9104	6.2348	-0.0032	0.0479	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE10	M-9	16.2897	9.7752	3.6476	-0.1641	0.0714	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE10	M-9	45.3236	1.5319	3.6476	0.0563	0.0714	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE11	M-9	16.2897	9.7752	3.6476	-0.1641	0.0714	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE11	M-9	45.3236	1.5319	3.6476	0.0563	0.0714	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE12	M-9	2.0324	2.9323	8.1344	-0.0796	0.0911	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE12	M-9	31.0663	10.2689	8.1344	0.1597	0.0911	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE12	M-9	19.7824	15.5967	3.4144	-0.1266	-0.0013	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE12	M-9	48.8163	8.3017	3.4144	-0.0886	-0.0013	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13	M-9	6.6373	4.2683	12.278	-0.0886	0.068	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13	M-9	35.6712	21.434	12.278	0.0948	0.068	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13	M-9	15.1775	16.9327	7.558	-0.1176	0.0219	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13	M-9	44.2114	19.4668	7.558	-0.0237	0.0219	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE8-	M-9	21.1735	5.5165	1.0497	-0.1728	0.0932	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE8-	M-9	59.8853	2.2632	1.0497	0.1172	0.0932	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE8+	M-9	12.3982	14.2386	6.3166	-0.153	0.0487	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE8+	M-9	51.1101	5.3431	6.3166	-0.0051	0.0487	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9-	M-9	18.5862	3.7309	2.0429	-0.1649	0.0782	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9-	M-9	57.298	10.0654	2.0429	0.0772	0.0782	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9+	M-9	14.9855	16.0242	9.4092	-0.1608	0.0637	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE9+	M-9	53.6974	13.1453	9.4092	0.0348	0.0637	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE12-	M-9	15.295	1.9711	0.2735	-0.113	0.0672	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE12-	M-9	44.3289	2.8195	0.2735	0.0967	0.0672	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(KN*m)	(KN)	(mm)	(mm)		(mm)	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2
CUBIERTA	DISE12+	M-9	6.5198	10.6933	4.9935	-0.0932	0.0227	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE12+	M-9	35.5537	4.7867	4.9935	-0.0256	0.0227	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13-	M-9	12.7077	0.1855	3.366	-0.1051	0.0522	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13-	M-9	41.7416	10.6217	3.366	0.0567	0.0522	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13+	M-9	9.1071	12.4789	8.086	-0.1011	0.0377	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE13+	M-9	38.141	12.5889	8.086	0.0143	0.0377	3050	150	3100	457500	0.86	400	150	140	90	110	7.625	15.25	7.625	4	4.0
CUBIERTA	DISE1	M-10	17.7746	1.6572	0.4296	0.4587	-0.2294	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE1	M-10	63.7933	0.3255	0.4296	-0.2533	-0.2294	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE2	M-10	22.6582	1.535	0.3396	0.6205	-0.3105	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE2	M-10	62.1027	0.4825	0.3396	-0.3433	-0.3105	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE3	M-10	15.2354	1.4205	0.3682	0.3932	-0.1966	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE3	M-10	54.68	0.279	0.3682	-0.2171	-0.1966	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE4	M-10	15.2354	1.4205	0.3682	0.3932	-0.1966	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE4	M-10	54.68	0.279	0.3682	-0.2171	-0.1966	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE5	M-10	19.8746	1.4921	0.3503	0.5353	-0.2678	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE5	M-10	59.3192	0.4062	0.3503	-0.296	-0.2678	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE6	M-10	19.8746	1.4921	0.3503	0.5353	-0.2678	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE6	M-10	59.3192	0.4062	0.3503	-0.296	-0.2678	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE7	M-10	19.8746	1.4921	0.3503	0.5353	-0.2678	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE7	M-10	59.3192	0.4062	0.3503	-0.296	-0.2678	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8	M-10	10.2579	11.9906	5.7354	0.5689	-0.1483	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8	M-10	49.7024	9.8498	5.7354	-0.0965	-0.1483	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8	M-10	24.8522	9.078	6.4539	0.3596	-0.316	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8	M-10	64.2968	9.1646	6.4539	-0.4166	-0.316	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9	M-10	12.2722	11.1332	9.5776	0.5114	-0.1948	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9	M-10	51.7168	22.009	9.5776	-0.1842	-0.1948	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9	M-10	22.8379	8.2206	10.2962	0.417	-0.2696	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9	M-10	62.2824	21.3238	10.2962	-0.3289	-0.2696	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE10	M-10	16.9936	1.1513	0.2547	0.4654	-0.2329	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE10	M-10	46.5771	0.3619	0.2547	-0.2574	-0.2329	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE11	M-10	16.9936	1.1513	0.2547	0.4654	-0.2329	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE11	M-10	46.5771	0.3619	0.2547	-0.2574	-0.2329	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12	M-10	4.1294	11.5996	5.8185	0.3995	-0.0636	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12	M-10	33.7128	9.7164	5.8185	-0.0028	-0.0636	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12	M-10	18.7237	9.4689	6.3708	0.1902	-0.2313	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12	M-10	48.3071	9.2979	6.3708	-0.3229	-0.2313	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13	M-10	6.1437	10.7423	9.6607	0.3421	-0.1101	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13	M-10	35.7271	21.8757	9.6607	-0.0905	-0.1101	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13	M-10	16.7094	8.6115	10.2131	0.2476	-0.1848	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13	M-10	46.2928	21.4572	10.2131	-0.2352	-0.1848	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8-	M-10	13.9551	6.5098	3.1806	0.4113	-0.1896	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8-	M-10	53.3997	3.3502	3.1806	-0.1752	-0.1896	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8+	M-10	21.155	3.5973	2.462	0.5171	-0.2748	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE8+	M-10	60.5995	4.0354	2.462	-0.3379	-0.2748	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9-	M-10	15.2717	5.8285	5.464	0.4537	-0.222	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9-	M-10	54.7163	11.1111	5.464	-0.2348	-0.222	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9+	M-10	19.8384	2.916	4.7454	0.4747	-0.2424	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE9+	M-10	59.2829	11.7963	4.7454	-0.2783	-0.2424	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12-	M-10	7.8266	6.1189	3.0975	0.2419	-0.1048	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12-	M-10	37.41	3.4835	3.0975	-0.0815	-0.1048	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12+	M-10	15.0265	3.9882	2.5451	0.3478	-0.1901	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE12+	M-10	44.6099	3.9021	2.5451	-0.2442	-0.1901	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13-	M-10	9.1432	5.4376	5.3809	0.2843	-0.1372	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13-	M-10	38.7266	11.2444	5.3809	-0.1411	-0.1372	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13+	M-10	13.7099	3.3069	4.8285	0.3054	-0.1577	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0
CUBIERTA	DISE13+	M-10	43.2933	11.6629	4.8285	-0.1846	-0.1577	1600	150	3100	240000	0.86	400	150	140	90	110	4	8.00	4	3	3.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE1	M-11	12.7851	0.091	0.0013	0.041	-0.0243	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE1	M-11	39.5509	0.0951	0.0013	-0.0349	-0.0243	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE2	M-11	16.5138	0.0974	0.0137	0.0555	-0.0329	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE2	M-11	39.456	0.1399	0.0137	-0.0475	-0.0329	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE3	M-11	10.9586	0.078	0.0011	0.0352	-0.0208	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE3	M-11	33.9008	0.0815	0.0011	-0.0299	-0.0208	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE4	M-11	10.9586	0.078	0.0011	0.0352	-0.0208	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE4	M-11	33.9008	0.0815	0.0011	-0.0299	-0.0208	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE5	M-11	14.4306	0.0901	0.009	0.0479	-0.0284	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE5	M-11	37.3728	0.118	0.009	-0.0409	-0.0284	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE6	M-11	14.4306	0.0901	0.009	0.0479	-0.0284	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE6	M-11	37.3728	0.118	0.009	-0.0409	-0.0284	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE7	M-11	14.4306	0.0901	0.009	0.0479	-0.0284	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE7	M-11	37.3728	0.118	0.009	-0.0409	-0.0284	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-11	4.4953	3.2547	2.4157	0.0667	0.005	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-11	27.4375	4.4115	2.4157	0.034	0.005	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-11	20.894	3.0866	2.4056	0.0163	-0.0542	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8	M-11	43.8361	4.212	2.4056	-0.1047	-0.0542	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9	M-11	9.8708	6.7927	5.2925	0.0507	-0.0142	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9	M-11	32.813	9.789	5.2925	-0.0114	-0.0142	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9	M-11	15.5184	6.6246	5.2824	0.0323	-0.0349	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9	M-11	38.4606	9.5895	5.2824	-0.0593	-0.0349	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE10	M-11	12.3854	0.073	0.0103	0.0416	-0.0247	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE10	M-11	29.592	0.1049	0.0103	-0.0356	-0.0247	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE11	M-11	12.3854	0.073	0.0103	0.0416	-0.0247	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE11	M-11	29.592	0.1049	0.0103	-0.0356	-0.0247	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12	M-11	0.0196	3.2292	2.4115	0.0515	0.014	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12	M-11	17.2263	4.3728	2.4115	0.047	0.014	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE12	M-11	16.4183	3.1122	2.4098	0.0012	-0.0452	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12	M-11	33.6249	4.2506	2.4098	-0.0918	-0.0452	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-11	5.3952	6.7672	5.2883	0.0355	-0.0052	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-11	22.6018	9.7503	5.2883	0.0015	-0.0052	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-11	11.0428	6.6502	5.2866	0.0172	-0.026	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13	M-11	28.2494	9.6281	5.2866	-0.0464	-0.026	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8-	M-11	8.0022	1.2651	0.8924	0.0274	-0.0077	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8-	M-11	30.9443	1.5015	0.8924	0.0043	-0.0077	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8+	M-11	17.3871	1.097	0.9025	0.0556	-0.0415	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE8+	M-11	40.3293	1.701	0.9025	-0.0751	-0.0415	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9-	M-11	11.1631	3.473	2.7134	0.0373	-0.0192	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9-	M-11	34.1052	4.9394	2.7134	-0.0225	-0.0192	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9+	M-11	14.2262	3.3049	2.7235	0.0457	-0.0299	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE9+	M-11	37.1684	5.139	2.7235	-0.0483	-0.0299	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12-	M-11	3.5265	1.2395	0.8966	0.0122	0.0013	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12-	M-11	20.7331	1.5402	0.8966	0.0173	0.0013	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12+	M-11	12.9115	1.1225	0.8983	0.0405	-0.0325	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE12+	M-11	30.1181	1.6624	0.8983	-0.0621	-0.0325	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13-	M-11	6.6874	3.4474	2.7176	0.0222	-0.0103	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13-	M-11	23.894	4.9781	2.7176	-0.0095	-0.0103	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13+	M-11	9.7506	3.3304	2.7193	0.0305	-0.0209	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE13+	M-11	26.9572	5.1003	2.7193	-0.0353	-0.0209	700	150	3100	105000	0.86	400	150	140	90	110	1.75	3.50	1.75	2	2.0
CUBIERTA	DISE1	M-12	17.563	2.1079	0.9184	0.4572	-0.229	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE1	M-12	62.7269	0.7393	0.9184	-0.2535	-0.229	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE2	M-12	22.3922	2.1159	0.9807	0.6185	-0.3099	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE2	M-12	61.1041	0.9244	0.9807	-0.3436	-0.3099	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE3	M-12	15.054	1.8067	0.7872	0.3919	-0.1962	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE3	M-12	53.7659	0.6337	0.7872	-0.2173	-0.1962	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(mm)	(mm)	(mm)	(mm²)		(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2	con ref(TENT)	rellenas
CUBIERTA	DISE4	M-12	15.054	1.8067	0.7872	0.3919	-0.1962	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE4	M-12	53.7659	0.6337	0.7872	-0.2173	-0.1962	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE5	M-12	19.6404	2	0.9082	0.5335	-0.2673	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE5	M-12	58.3523	0.8153	0.9082	-0.2962	-0.2673	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE6	M-12	19.6404	2	0.9082	0.5335	-0.2673	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE6	M-12	58.3523	0.8153	0.9082	-0.2962	-0.2673	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE7	M-12	19.6404	2	0.9082	0.5335	-0.2673	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE7	M-12	58.3523	0.8153	0.9082	-0.2962	-0.2673	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE8	M-12	9.699	8.8791	6.6787	0.5713	-0.1447	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE8	M-12	48.4108	9.7723	6.6787	-0.0906	-0.1447	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE8	M-12	24.9954	12.6859	4.9833	0.3542	-0.3188	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE8	M-12	63.7073	8.3232	4.9833	-0.423	-0.3188	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9	M-12	11.853	7.7662	10.4886	0.5101	-0.1938	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9	M-12	50.5649	21.6634	10.4886	-0.1827	-0.1938	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9	M-12	22.8414	11.573	8.7932	0.4153	-0.2697	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9	M-12	61.5533	20.2144	8.7932	-0.3308	-0.2697	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE10	M-12	16.7942	1.587	0.7356	0.4639	-0.2324	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE10	M-12	45.8281	0.6933	0.7356	-0.2577	-0.2324	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE11	M-12	16.7942	1.587	0.7356	0.4639	-0.2324	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE11	M-12	45.8281	0.6933	0.7356	-0.2577	-0.2324	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12	M-12	3.6423	9.4275	6.4214	0.4025	-0.0601	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12	M-12	32.6762	9.523	6.4214	0.0032	-0.0601	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12	M-12	18.9387	12.1376	5.2406	0.1854	-0.2342	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12	M-12	47.9726	8.5725	5.2406	-0.3292	-0.2342	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13	M-12	5.7963	8.3146	10.2314	0.3414	-0.1092	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13	M-12	34.8302	21.4142	10.2314	-0.0889	-0.1092	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13	M-12	16.7847	11.0247	9.0505	0.2465	-0.1852	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13	M-12	45.8186	20.4637	9.0505	-0.2371	-0.1852	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0



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NIVEL	Combo	SOLICITACIONES				MuD	VuD	MURO														
		PIER	Pu	MuF	VuF			L	t	h'	A	Re	a	b	c	d	rec	# de	# de	# de	# de celda	# de celda
			(KN)	(KN*m)	(KN)			(KN*m)	(KN)	(mm)	(mm)		(mm)	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	bloques	celdas 1	celdas 2
CUBIERTA	DISE8-	M-12	14.386	5.2901	0.9945	0.4047	-0.1863	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE8-	M-12	53.0978	2.2074	0.9945	-0.1716	-0.1863	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE8+	M-12	20.3085	1.4833	0.7009	0.5207	-0.2772	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE8+	M-12	59.0203	3.6565	0.7009	-0.342	-0.2772	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9-	M-12	17.4745	0.4137	3.1374	0.4367	-0.2129	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9-	M-12	56.1864	10.141	3.1374	-0.2236	-0.2129	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9+	M-12	17.2199	3.3931	4.8328	0.4887	-0.2506	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE9+	M-12	55.9318	11.59	4.8328	-0.29	-0.2506	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12-	M-12	8.3293	4.7418	0.7373	0.2359	-0.1017	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12-	M-12	37.3632	2.4567	0.7373	-0.0778	-0.1017	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12+	M-12	14.2518	2.0316	0.4436	0.3519	-0.1927	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE12+	M-12	43.2857	3.4072	0.4436	-0.2482	-0.1927	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13-	M-12	11.4178	0.1346	3.3947	0.2679	-0.1283	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13-	M-12	40.4517	10.3903	3.3947	-0.1298	-0.1283	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13+	M-12	11.1632	2.8447	4.5755	0.32	-0.166	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0
CUBIERTA	DISE13+	M-12	40.1971	11.3407	4.5755	-0.1962	-0.166	2830	150	3100	424500	0.86	400	150	140	90	110	7.075	14.15	7.075	4	4.0

NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
			barra(h)	barra(v)	(mm²)	ref inicialUN				ref UN	(mm²)	(mm²)		(m)			
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK



NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK



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NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _v	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.00027	0.00027	0.00059	129.6	2.00	4	OK	285.0	40.5	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-1	en ref	328,800	102.75	3	3	0.0007	0.0007	0.00059	336	5.00	4	OK	285.0	105	0.9933	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK

[illegible]



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NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.00027	0.00027	0.00211	18.225	2.00	2	OK	142.5	40.5	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-2	en ref	64,350	143	3	3	0.0007	0.0007	0.00211	47.25	2.00	2	OK	142.5	105	0.2300	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK



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NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.0007	0.0007	0.00078	128.1	2.00	2	OK	142.5	105	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK



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NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm²)	ref inicialUN	ref UN		(mm²)	(mm²)	(m)	
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-3	en ref	131,340	107.66	3	3	0.00027	0.00027	0.00078	49.41	2.00	2	OK	142.5	40.5	1.0000	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK				



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NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _v	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	
			(mm ²)	(mm)	barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.00027	0.00027	0.00077	49.815	2.00	2	OK	142.5	40.5	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-4	en ref	132,210	107.49	3	3	0.0007	0.0007	0.00077	129.15	2.00	2	OK	142.5	105	1.0100	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK



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NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK



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NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-5	en ref	86,100	123	3	3	0.00027	0.00027	0.00136	28.35	2.00	2	OK	142.5	40.5	0.4800	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK



NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	As	As(1m)	cada		
			barra(h)	barra(v)	(mm²)	ref inicialUN				ref UN	(mm²)	(mm²)	(m)	NOTA			
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK</				



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NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.00027	0.00027	0.00092	62.775	2.00	3	OK	213.8	40.5	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-6	en ref	172,650	111.39	3	3	0.0007	0.0007	0.00092	162.75	3.00	3	OK	213.8	105	0.6650	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK



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NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.0007	0.0007	0.00059	420	6.00	5	OK	356.3	105	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK



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NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm²)	ref inicialUN	ref UN		(mm²)	(mm²)	(m)	
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-7	en ref	411,000	102.75	3	3	0.00027	0.00027	0.00059	162	3.00	5	OK	356.3	40.5	0.9450	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK



Universidad
de Cartagena
Fundada en 1827

NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.0007	0.0007	0.00148	67.2	2.00	2	OK	142.5	105	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK



NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-8	en ref	80,880	126.38	3	3	0.00027	0.00027	0.00148	25.92	2.00	2	OK	142.5	40.5	0.4200	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
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CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
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CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
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CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
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CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
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CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.						



NIVEL	PIER	Relleno o Refuerzo	Ae	be	REFUERZO												
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00	4	OK	285.0	105	0.9433	OK
CUBIERTA	M-9	en ref	315,750	103.52	3	3	0.0007	0.0007	0.00062	320.25	5.00</						

[illegible]

[illegible]

[illegible]



NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-11	en ref	86,100	123	3	3	0.0007	0.0007	0.00136	73.5	2.00	2	OK	142.5	105	0.4800	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK



NIVEL	PIER	Relleno o Refuerzo	Ae (mm²)	be (mm)	REFUERZO												
					# de la barra(h)	# de la barra(v)	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min (mm²)	cantidad ref inicialUN	cantidad ref UN	NOTA	As (mm²)	As(1m) (mm²)	cada (m)	NOTA
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81													



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NIVEL	PIER	Relleno o Refuerzo	Ae (mm ²)	be (mm)	REFUERZO												NOTA
					# de la	# de la	r _{minimo(h)}	r _{minimo(v)}	r _(v)	As min	cantidad	cantidad	NOTA	As	As(1m)	cada	NOTA
					barra(h)	barra(v)				(mm ²)	ref inicialUN	ref UN		(mm ²)	(mm ²)	(m)	
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK
CUBIERTA	M-12	en ref	296,610	104.81	3	3	0.0007	0.0007	0.00067	297.15	5.00	4	OK	285.0	105	0.8700	OK

NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *Ae	ab	0.25*P _b	P _{lim}	f	Re	P _o	f _{Pn}	NOTA	INDCE	C/L	f _{Mn}	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1490.08	OK	187.387	0.035	168.30	62.67	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.82	0.76	2912.09	1453.04	OK	40.8838	0.044	205.07	49.27	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1487.13	OK	146.472	0.036	171.26	46.21	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.82	0.76	2912.09	1455.38	OK	43.0577	0.043	202.78	35.31	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1491.61	OK	218.842	0.034	166.77	72.45	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1459.86	OK	47.9214	0.042	198.36	55.60	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1491.61	OK	218.842	0.034	166.77	72.45	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1459.86	OK	47.9214	0.042	198.36	55.60	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1488.81	OK	167.251	0.035	169.58	53.34	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1457.06	OK	44.7647	0.043	201.12	40.82	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1488.81	OK	167.251	0.035	169.58	53.34	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1457.06	OK	44.7647	0.043	201.12	40.82	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1488.81	OK	167.251	0.035	169.58	53.34	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1457.06	OK	44.7647	0.043	201.12	40.82	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1493.40	OK	272.548	0.034	164.96	0.06	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1461.65	OK	50.1819	0.042	196.59	0.12	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1487.01	OK	145.243	0.036	171.37	0.09	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.82	0.76	2912.09	1455.27	OK	42.9463	0.043	202.89	0.08	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1498.02	OK	734.07	0.033	160.31	0.03	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1466.27	OK	57.0791	0.041	192.03	0.08	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1482.40	OK	108.388	0.037	175.99	0.06	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.82	0.76	2912.09	1450.65	OK	38.8659	0.045	207.42	0.03	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1490.53	OK	195.742	0.035	167.84	60.39	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1466.72	OK	57.8578	0.041	191.58	44.48	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1490.53	OK	195.742	0.035	167.84	60.39	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1466.72	OK	57.8578	0.041	191.58	44.48	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1497.09	OK	547.862	0.033	161.25	0.07	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1473.28	OK	71.9782	0.039	185.08	0.12	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1490.70	OK	198.991	0.035	167.68	0.09	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1466.89	OK	58.1476	0.040	191.42	0.09	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1499.81	OK	2124.07	0.033	158.51	0.03	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1477.89	OK	86.7838	0.038	180.49	0.07	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1486.08	OK	135.964	0.036	172.31	0.05	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1462.27	OK	51.0113	0.042	195.98	0.04	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1491.55	OK	217.557	0.034	166.82	49.67	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1459.81	OK	47.8568	0.042	198.42	38.51	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1488.86	OK	168.012	0.035	169.52	19.18	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1457.11	OK	44.8216	0.043	201.07	14.73	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1494.57	OK	324.145	0.034	163.79	372.25	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1462.82	OK	51.7657	0.041	195.44	262.34	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1485.85	OK	133.779	0.036	172.54	34.23	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.82	0.76	2912.09	1454.10	OK	41.8393	0.044	204.03	26.33	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1495.24	OK	363.885	0.034	163.11	37.30	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1471.43	OK	67.3581	0.039	186.92	27.80	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1492.55	OK	244.088	0.034	165.82	21.19	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1468.74	OK	61.581	0.040	189.59	15.70	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.85	0.76	2912.09	1498.25	OK	803.784	0.033	160.07	278.78	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1474.44	OK	75.2279	0.039	183.92	222.42	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.84	0.76	2912.09	1489.53	OK	178.176	0.035	168.85	0.02	OK
CUBIERTA	M-1	328.80	1545	337.3410938	328.80	0.83	0.76	2912.09	1465.72	OK	56.1675	0.041	192.57	0.03	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.80	0.76	605.62	293.78	OK	28.4836	0.120	11.53	0.73	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.74	0.76	605.62	272.80	OK	12.3321	0.148	12.77	0.57	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.78	0.76	605.62	288.01	OK	21.2388	0.127	11.89	0.96	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.74	0.76	605.62	270.03	OK	11.4027	0.152	12.92	0.76	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.81	0.76	605.62	296.40	OK	33.5269	0.117	11.36	0.64	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.76	0.76	605.62	278.41	OK	14.6835	0.140	12.45	0.50	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.81	0.76	605.62	296.40	OK	33.5269	0.117	11.36	1.57	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.76	0.76	605.62	278.41	OK	14.6835	0.140	12.45	2.00	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	291.16	OK	24.6939	0.123	11.69	1.19	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.74	0.76	605.62	273.17	OK	12.4674	0.147	12.75	1.50	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	291.16	OK	24.6939	0.123	11.69	0.84	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.74	0.76	605.62	273.17	OK	12.4674	0.147	12.75	0.67	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	291.16	OK	24.6939	0.123	11.69	0.84	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.74	0.76	605.62	273.17	OK	12.4674	0.147	12.75	0.67	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.81	0.76	605.62	297.69	OK	36.6808	0.115	11.28	0.90	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.76	0.76	605.62	279.70	OK	15.338	0.138	12.38	0.39	OK



NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	289.87	OK	23.1605	0.125	11.77	0.58	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.74	0.76	605.62	271.88	OK	12.0111	0.149	12.82	0.77	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.81	0.76	605.62	299.00	OK	40.5347	0.113	11.19	1.13	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.77	0.76	605.62	281.02	OK	16.061	0.136	12.30	2.14	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	288.55	OK	21.7698	0.126	11.85	1.65	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.74	0.76	605.62	270.57	OK	11.5752	0.151	12.89	1.44	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.80	0.76	605.62	294.04	OK	28.9106	0.119	11.51	1.35	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.76	0.76	605.62	280.55	OK	15.7959	0.137	12.33	1.67	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.80	0.76	605.62	294.04	OK	28.9106	0.119	11.51	1.35	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.76	0.76	605.62	280.55	OK	15.7959	0.137	12.33	1.67	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.83	0.76	605.62	304.24	OK	68.6699	0.107	10.85	1.53	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	290.75	OK	24.1872	0.124	11.72	5.58	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.81	0.76	605.62	296.42	OK	33.5673	0.117	11.36	3.03	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.77	0.76	605.62	282.93	OK	17.2299	0.134	12.19	1.68	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.83	0.76	605.62	305.55	OK	82.7753	0.106	10.76	1.59	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.80	0.76	605.62	292.06	OK	25.8882	0.122	11.64	3.80	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.80	0.76	605.62	295.10	OK	30.8375	0.118	11.44	0.35	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.77	0.76	605.62	281.62	OK	16.4112	0.135	12.27	0.51	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.80	0.76	605.62	294.58	OK	29.8728	0.119	11.48	0.80	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.75	0.76	605.62	276.60	OK	13.8427	0.142	12.56	0.68	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.80	0.76	605.62	292.97	OK	27.2027	0.121	11.58	0.68	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.75	0.76	605.62	274.99	OK	13.1633	0.144	12.65	0.49	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	291.76	OK	25.4856	0.122	11.65	0.71	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.75	0.76	605.62	273.78	OK	12.6935	0.146	12.72	0.58	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.81	0.76	605.62	295.79	OK	32.2106	0.117	11.40	1.30	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.76	0.76	605.62	277.81	OK	14.3917	0.141	12.49	1.70	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.82	0.76	605.62	301.13	OK	48.7578	0.111	11.05	1.82	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.78	0.76	605.62	287.65	OK	20.8947	0.127	11.91	2.04	OK



NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.82	0.76	605.62	299.52	OK	42.2768	0.113	11.16	0.43	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.78	0.76	605.62	286.03	OK	19.491	0.130	12.01	0.29	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.81	0.76	605.62	298.31	OK	38.4271	0.114	11.24	0.46	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.78	0.76	605.62	284.83	OK	18.5513	0.131	12.08	0.39	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.82	0.76	605.62	302.34	OK	54.9926	0.110	10.98	0.51	OK
CUBIERTA	M-2	64.35	170	51.65875	51.66	0.79	0.76	605.62	288.85	OK	22.0697	0.126	11.83	0.40	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	586.96	OK	44.2773	0.053	36.16	0.11	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	548.26	OK	13.4228	0.078	48.86	0.10	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	581.95	OK	34.5743	0.056	37.85	7.12	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	548.77	OK	13.5569	0.078	48.70	7.55	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	589.62	OK	51.8907	0.051	35.25	9.97	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.78	0.76	1175.03	556.45	OK	15.8937	0.073	46.25	11.19	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	589.62	OK	51.8907	0.051	35.25	9.97	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.78	0.76	1175.03	556.45	OK	15.8937	0.073	46.25	11.19	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	584.82	OK	39.5662	0.054	36.88	7.93	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	551.65	OK	14.3553	0.076	47.79	8.56	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	584.82	OK	39.5662	0.054	36.88	7.93	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	551.65	OK	14.3553	0.076	47.79	8.56	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	584.82	OK	39.5662	0.054	36.88	7.93	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	551.65	OK	14.3553	0.076	47.79	8.56	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	593.66	OK	69.9754	0.049	33.87	22.20	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.79	0.76	1175.03	560.48	OK	17.4435	0.070	44.95	2.40	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	580.79	OK	32.8874	0.057	38.25	0.25	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	547.61	OK	13.257	0.079	49.07	0.18	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	592.95	OK	65.9683	0.049	34.11	0.00	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.79	0.76	1175.03	559.78	OK	17.1521	0.070	45.18	0.24	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	581.49	OK	33.896	0.056	38.01	0.22	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	548.32	OK	13.4383	0.078	48.84	0.02	OK



NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	587.85	OK	46.5668	0.052	35.86	0.11	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.79	0.76	1175.03	562.97	OK	18.5434	0.068	44.14	0.11	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	587.85	OK	46.5668	0.052	35.86	8.99	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.79	0.76	1175.03	562.97	OK	18.5434	0.068	44.14	9.12	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.84	0.76	1175.03	600.04	OK	152.527	0.045	31.67	10.68	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.81	0.76	1175.03	575.16	OK	26.542	0.060	40.13	2.37	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	587.17	OK	44.7878	0.053	36.09	0.23	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.79	0.76	1175.03	562.29	OK	18.229	0.069	44.36	0.24	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.84	0.76	1175.03	599.33	OK	135.027	0.045	31.91	0.05	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.81	0.76	1175.03	574.45	OK	25.9061	0.061	40.36	0.23	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	587.88	OK	46.6368	0.052	35.85	0.19	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.79	0.76	1175.03	563.00	OK	18.5555	0.068	44.13	0.07	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	584.95	OK	39.8161	0.054	36.84	0.05	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.77	0.76	1175.03	551.78	OK	14.3921	0.076	47.75	0.05	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	589.49	OK	51.4733	0.051	35.30	5.54	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.78	0.76	1175.03	556.32	OK	15.8496	0.073	46.29	3.82	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	588.39	OK	48.075	0.052	35.67	7.85	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.78	0.76	1175.03	555.22	OK	15.4714	0.073	46.65	15.35	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.82	0.76	1175.03	586.05	OK	42.1482	0.053	36.47	10.02	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.78	0.76	1175.03	552.88	OK	14.723	0.075	47.40	7.10	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	591.33	OK	58.3081	0.050	34.67	91.98	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.80	0.76	1175.03	566.45	OK	20.3196	0.066	43.01	10.33	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.84	0.76	1175.03	595.88	OK	86.3262	0.047	33.11	6.72	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.80	0.76	1175.03	571.00	OK	23.1751	0.063	41.51	4.01	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	594.77	OK	77.3516	0.048	33.49	10.79	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.80	0.76	1175.03	569.89	OK	22.4148	0.064	41.87	32.72	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.83	0.76	1175.03	592.44	OK	63.3289	0.049	34.29	15.60	OK
CUBIERTA	M-3	131.34	555	126.9664857	126.97	0.80	0.76	1175.03	567.56	OK	20.9503	0.065	42.64	8.67	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fP _n	NOTA	INDCE	C/L	f _{Mn}	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	591.94	OK	47.5748	0.052	36.08	0.10	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.77	0.76	1182.43	553.28	OK	13.8212	0.077	48.95	0.09	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	587.04	OK	36.834	0.055	37.76	0.13	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.77	0.76	1182.43	553.90	OK	13.9928	0.076	48.75	0.13	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	594.43	OK	55.7377	0.050	35.22	0.09	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	561.29	OK	16.3583	0.071	46.36	0.08	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	594.43	OK	55.7377	0.050	35.22	0.09	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	561.29	OK	16.3583	0.071	46.36	0.08	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	589.81	OK	42.2496	0.053	36.81	8.55	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	556.67	OK	14.8021	0.075	47.86	8.93	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	589.81	OK	42.2496	0.053	36.81	8.55	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	556.67	OK	14.8021	0.075	47.86	8.93	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	589.81	OK	42.2496	0.053	36.81	0.12	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	556.67	OK	14.8021	0.075	47.86	0.11	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	594.65	OK	56.613	0.050	35.15	0.16	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	561.52	OK	16.442	0.071	46.29	0.44	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	589.58	OK	41.7519	0.053	36.89	0.35	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	556.45	OK	14.7331	0.075	47.93	0.23	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	597.13	OK	68.3854	0.048	34.29	0.03	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.79	0.76	1182.43	564.00	OK	17.4184	0.070	45.47	0.24	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	587.10	OK	36.941	0.055	37.74	4.43	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.77	0.76	1182.43	553.97	OK	14.0101	0.076	48.73	31.11	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	592.62	OK	49.5793	0.051	35.85	9.59	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.79	0.76	1182.43	567.77	OK	19.124	0.067	44.23	9.47	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	592.62	OK	49.5793	0.051	35.85	9.59	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.79	0.76	1182.43	567.77	OK	19.124	0.067	44.23	9.47	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.84	0.76	1182.43	600.70	OK	97.0445	0.046	33.05	4.82	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.80	0.76	1182.43	575.85	OK	24.0682	0.062	41.55	2.25	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	595.63	OK	60.7337	0.049	34.81	3.00	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.80	0.76	1182.43	570.78	OK	20.7232	0.065	43.24	3.44	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.84	0.76	1182.43	603.18	OK	136.528	0.045	32.18	13.42	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.81	0.76	1182.43	578.33	OK	26.1051	0.060	40.72	4.45	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	593.14	OK	51.2259	0.051	35.67	4.98	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.79	0.76	1182.43	568.29	OK	19.386	0.067	44.06	13.48	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	590.88	OK	44.7698	0.052	36.45	0.04	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	557.74	OK	15.1372	0.074	47.51	0.08	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	593.36	OK	51.9274	0.051	35.59	0.25	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	560.22	OK	15.9724	0.072	46.71	0.28	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.82	0.76	1182.43	589.35	OK	41.2443	0.053	36.97	0.03	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	556.21	OK	14.6615	0.075	48.01	0.03	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	594.89	OK	57.5571	0.050	35.07	0.18	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.78	0.76	1182.43	561.75	OK	16.5302	0.071	46.21	0.17	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	596.92	OK	67.189	0.049	34.36	12.79	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.80	0.76	1182.43	572.07	OK	21.4902	0.064	42.81	7.50	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.84	0.76	1182.43	599.40	OK	84.271	0.047	33.50	4.50	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.80	0.76	1182.43	574.55	OK	23.1221	0.063	41.98	3.62	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.83	0.76	1182.43	595.39	OK	59.6866	0.049	34.89	0.00	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.80	0.76	1182.43	570.54	OK	20.5889	0.065	43.32	0.01	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.84	0.76	1182.43	600.93	OK	99.7944	0.046	32.96	0.15	OK
CUBIERTA	M-4	132.21	560	127.9104878	127.91	0.80	0.76	1182.43	576.08	OK	24.2484	0.062	41.47	0.15	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	391.41	OK	38.0845	0.082	19.00	0.44	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.78	0.76	790.49	373.02	OK	16.867	0.100	21.63	0.34	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	386.37	OK	28.5782	0.087	19.73	0.58	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.77	0.76	790.49	370.61	OK	15.6596	0.103	21.96	0.45	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	393.69	OK	44.6908	0.080	18.66	2.59	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	377.93	OK	19.9372	0.096	20.94	3.36	OK



NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	393.69	OK	44.6908	0.080	18.66	2.59	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	377.93	OK	19.9372	0.096	20.94	3.36	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	389.12	OK	33.107	0.085	19.33	1.97	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.78	0.76	790.49	373.35	OK	17.0481	0.100	21.58	2.55	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	389.12	OK	33.107	0.085	19.33	1.97	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.78	0.76	790.49	373.35	OK	17.0481	0.100	21.58	2.55	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	389.12	OK	33.107	0.085	19.33	1.97	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.78	0.76	790.49	373.35	OK	17.0481	0.100	21.58	2.55	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	395.13	OK	50.1268	0.079	18.45	1.80	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	379.37	OK	21.0417	0.094	20.74	4.35	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	387.68	OK	30.5741	0.086	19.54	2.88	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.78	0.76	790.49	371.91	OK	16.2929	0.102	21.78	2.19	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.83	0.76	790.49	395.93	OK	53.7175	0.078	18.33	0.54	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	380.16	OK	21.7023	0.093	20.63	0.28	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	386.88	OK	29.3269	0.087	19.66	0.37	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.77	0.76	790.49	371.12	OK	15.9013	0.102	21.89	0.41	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	391.63	OK	38.6224	0.082	18.97	0.45	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	379.80	OK	21.3974	0.094	20.68	0.36	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	391.63	OK	38.6224	0.082	18.97	0.45	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	379.80	OK	21.3974	0.094	20.68	0.36	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.84	0.76	790.49	400.84	OK	95.2509	0.074	17.59	2.46	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	389.02	OK	32.9166	0.085	19.35	9.30	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	393.39	OK	43.6828	0.081	18.71	5.08	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.80	0.76	790.49	381.56	OK	22.9644	0.092	20.43	2.81	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.84	0.76	790.49	401.64	OK	108.663	0.073	17.47	0.39	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	389.81	OK	34.478	0.084	19.23	0.16	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	392.59	OK	41.2488	0.081	18.82	0.22	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	380.77	OK	22.2311	0.093	20.54	0.30	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	f _{Mn}	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	393.48	OK	43.9674	0.081	18.69	0.51	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	377.71	OK	19.7795	0.096	20.97	0.42	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	389.34	OK	33.5248	0.084	19.30	0.39	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.78	0.76	790.49	373.57	OK	17.1677	0.100	21.55	0.27	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	394.02	OK	45.8185	0.080	18.61	2.01	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.79	0.76	790.49	378.25	OK	20.1776	0.095	20.90	2.55	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	388.79	OK	32.4994	0.085	19.38	2.50	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.78	0.76	790.49	373.03	OK	16.8715	0.100	21.63	3.33	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.83	0.76	790.49	399.19	OK	75.6767	0.075	17.84	2.79	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	387.36	OK	30.0632	0.086	19.59	3.21	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	395.05	OK	49.7603	0.079	18.46	4.16	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.80	0.76	790.49	383.22	OK	24.6462	0.090	20.19	6.24	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.83	0.76	790.49	399.73	OK	81.1602	0.075	17.76	2.88	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.81	0.76	790.49	387.90	OK	30.9455	0.086	19.51	3.53	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.82	0.76	790.49	394.50	OK	47.5948	0.080	18.54	3.98	OK
CUBIERTA	M-5	86.10	295	77.105625	77.11	0.80	0.76	790.49	382.68	OK	24.0698	0.091	20.27	5.30	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	791.03	OK	103.265	0.053	60.88	24.94	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	752.86	OK	21.3583	0.072	76.90	20.12	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	788.12	OK	80.7421	0.055	62.13	0.05	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	755.41	OK	22.6111	0.071	75.85	0.07	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	792.54	OK	120.706	0.052	60.23	0.03	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	759.83	OK	25.1486	0.068	74.04	0.04	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	792.54	OK	120.706	0.052	60.23	0.03	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	759.83	OK	25.1486	0.068	74.04	0.04	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	789.78	OK	92.233	0.054	61.42	0.05	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	757.07	OK	23.5037	0.070	75.17	0.06	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	789.78	OK	92.233	0.054	61.42	21.33	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	757.07	OK	23.5037	0.070	75.17	16.66	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	789.78	OK	92.233	0.054	61.42	21.33	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	757.07	OK	23.5037	0.070	75.17	16.66	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	794.44	OK	152.826	0.052	59.41	0.16	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	761.72	OK	26.4066	0.067	73.25	0.31	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	787.89	OK	79.3404	0.055	62.23	0.24	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	755.17	OK	22.49	0.071	75.95	0.19	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.85	0.76	1555.49	799.21	OK	457.45	0.049	57.34	0.08	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	766.50	OK	30.1832	0.065	71.27	0.19	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.83	0.76	1555.49	783.12	OK	58.5218	0.057	64.27	0.14	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	750.40	OK	20.265	0.073	77.90	0.08	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	791.50	OK	108.117	0.053	60.68	24.14	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	766.96	OK	30.6094	0.065	71.08	18.04	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	791.50	OK	108.117	0.053	60.68	24.14	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	766.96	OK	30.6094	0.065	71.08	18.04	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.85	0.76	1555.49	798.09	OK	311.961	0.050	57.83	5.41	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.82	0.76	1555.49	773.55	OK	38.1173	0.062	68.32	3.25	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	791.54	OK	108.57	0.053	60.66	4.39	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	767.01	OK	30.648	0.065	71.06	4.41	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.85	0.76	1555.49	800.39	OK	896.497	0.049	56.83	10.81	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.83	0.76	1555.49	778.33	OK	46.211	0.059	66.30	5.35	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.83	0.76	1555.49	786.77	OK	73.2442	0.055	62.71	7.47	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	762.23	OK	26.7662	0.067	73.04	9.78	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	789.81	OK	92.4675	0.054	61.40	19.26	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	757.10	OK	23.5202	0.070	75.16	15.30	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	792.51	OK	120.311	0.053	60.24	0.14	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	759.80	OK	25.1299	0.068	74.05	0.17	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.83	0.76	1555.49	786.68	OK	72.8036	0.055	62.75	0.01	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.80	0.76	1555.49	753.96	OK	21.8837	0.071	76.45	0.02	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	795.65	OK	184.037	0.051	58.89	0.07	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	762.93	OK	27.2759	0.067	72.75	0.09	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	793.46	OK	134.449	0.052	59.83	0.07	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.82	0.76	1555.49	768.93	OK	32.5302	0.064	70.26	0.09	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	796.17	OK	201.699	0.051	58.66	8.10	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.82	0.76	1555.49	771.63	OK	35.5869	0.063	69.12	6.14	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.84	0.76	1555.49	790.33	OK	96.7879	0.054	61.18	2124.27	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.81	0.76	1555.49	765.79	OK	29.5659	0.065	71.56	1126.97	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.85	0.76	1555.49	799.30	OK	474.841	0.049	57.30	0.06	OK
CUBIERTA	M-6	172.65	720	170.4222581	170.42	0.82	0.76	1555.49	774.76	OK	39.8971	0.061	67.81	0.07	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1852.79	OK	107.434	0.037	275.24	0.03	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1791.01	OK	28.3099	0.049	351.25	0.00	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1846.27	OK	83.5312	0.038	283.37	0.04	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1793.32	OK	29.1373	0.049	348.46	0.00	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1856.10	OK	125.563	0.036	271.11	0.03	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1803.15	OK	33.252	0.047	336.51	0.00	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1856.10	OK	125.563	0.036	271.11	36.04	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1803.15	OK	33.252	0.047	336.51	11368.68	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1849.96	OK	95.5675	0.037	278.78	27.70	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1797.01	OK	30.5602	0.048	343.99	13814.75	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1849.96	OK	95.5675	0.037	278.78	27.70	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1797.01	OK	30.5602	0.048	343.99	13814.75	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1849.96	OK	95.5675	0.037	278.78	27.70	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1797.01	OK	30.5602	0.048	343.99	13814.75	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1864.15	OK	212.19	0.035	261.02	15.46	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1811.20	OK	37.5534	0.045	326.68	35.46	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.83	0.76	3640.11	1841.91	OK	72.6462	0.039	288.80	408.20	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1788.95	OK	27.6078	0.050	353.75	38.17	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1858.50	OK	143.022	0.036	268.10	13.79	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1805.55	OK	34.4313	0.046	333.59	15.91	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1847.56	OK	87.3744	0.038	281.77	0.01	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1794.61	OK	29.6189	0.048	346.90	0.06	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1853.69	OK	111.822	0.037	274.12	0.03	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1813.98	OK	39.2972	0.044	323.28	0.00	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1853.69	OK	111.822	0.037	274.12	0.03	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1813.98	OK	39.2972	0.044	323.28	0.00	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.85	0.76	3640.11	1872.18	OK	668.136	0.033	250.91	0.05	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.83	0.76	3640.11	1832.47	OK	56.583	0.041	300.51	0.03	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1849.94	OK	95.4995	0.037	278.80	114.08	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1810.23	OK	36.9776	0.045	327.87	35.40	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.85	0.76	3640.11	1866.53	OK	266.218	0.034	258.03	15.83	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.83	0.76	3640.11	1826.82	OK	49.9203	0.042	307.49	14.66	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1855.59	OK	122.384	0.036	271.75	0.02	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1815.88	OK	40.5823	0.044	320.95	0.07	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1847.60	OK	87.5063	0.038	281.72	0.03	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1794.65	OK	29.6349	0.048	346.85	0.01	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1858.46	OK	142.674	0.036	268.16	0.04	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1805.51	OK	34.41	0.046	333.64	0.01	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1851.62	OK	102.204	0.037	276.70	0.05	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.81	0.76	3640.11	1798.67	OK	31.2478	0.048	341.96	0.03	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1854.43	OK	115.738	0.036	273.19	65.14	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1801.48	OK	32.4783	0.047	338.54	28.69	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1855.63	OK	122.64	0.036	271.69	58.39	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1815.92	OK	40.6118	0.044	320.90	91.13	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.85	0.76	3640.11	1866.49	OK	265.025	0.034	258.08	38.92	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.83	0.76	3640.11	1826.78	OK	49.8763	0.042	307.54	88.45	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	f _m n	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1859.66	OK	153.262	0.035	266.66	26.04	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.82	0.76	3640.11	1819.94	OK	43.6257	0.043	315.96	26.67	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.84	0.76	3640.11	1862.47	OK	185.514	0.035	263.13	252.45	OK
CUBIERTA	M-7	411.00	1945	424.6785938	411.00	0.83	0.76	3640.11	1822.75	OK	46.0025	0.043	312.50	26.48	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	375.96	OK	69.8241	0.082	16.20	7.61	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	357.09	OK	20.6911	0.100	18.57	9.87	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	373.66	OK	54.7009	0.084	16.50	5.76	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	357.49	OK	21.0182	0.100	18.52	7.32	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	377.18	OK	81.7263	0.080	16.04	0.11	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	361.01	OK	24.4046	0.096	18.09	0.09	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	377.18	OK	81.7263	0.080	16.04	0.11	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	361.01	OK	24.4046	0.096	18.09	0.09	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	374.98	OK	62.496	0.082	16.33	0.15	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	358.81	OK	22.1794	0.099	18.36	0.12	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	374.98	OK	62.496	0.082	16.33	0.15	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	358.81	OK	22.1794	0.099	18.36	0.12	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	374.98	OK	62.496	0.082	16.33	6.60	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	358.81	OK	22.1794	0.099	18.36	8.40	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.85	0.76	746.12	382.87	OK	369.066	0.075	15.30	4.16	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.81	0.76	746.12	366.70	OK	32.6972	0.091	17.38	47.26	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.82	0.76	746.12	369.30	OK	38.5572	0.088	17.05	0.04	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.78	0.76	746.12	353.12	OK	17.8748	0.105	19.05	0.18	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.84	0.76	746.12	379.48	OK	119.603	0.078	15.75	0.22	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	363.30	OK	27.213	0.094	17.81	0.01	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.82	0.76	746.12	372.69	OK	50.076	0.085	16.62	0.05	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	356.52	OK	20.2336	0.101	18.64	0.19	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	376.38	OK	73.4636	0.081	16.15	0.13	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.81	0.76	746.12	364.25	OK	28.5539	0.093	17.69	0.11	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	376.38	OK	73.4636	0.081	16.15	7.52	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.81	0.76	746.12	364.25	OK	28.5539	0.093	17.69	9.32	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.85	0.76	746.12	383.23	OK	473.828	0.075	15.25	5.27	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	373.67	OK	54.7562	0.084	16.50	51.25	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.82	0.76	746.12	372.23	OK	48.1434	0.085	16.68	107.69	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	360.10	OK	23.4367	0.097	18.20	6.64	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.85	0.76	746.12	382.41	OK	288.285	0.076	15.36	5.86	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.82	0.76	746.12	370.28	OK	41.3277	0.087	16.93	35.12	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	375.62	OK	67.1201	0.082	16.25	136.18	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	363.49	OK	27.4762	0.094	17.78	6.13	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.82	0.76	746.12	372.70	OK	50.1176	0.085	16.62	10.43	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	356.53	OK	20.2411	0.101	18.64	12.35	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.84	0.76	746.12	379.47	OK	119.374	0.078	15.75	5.82	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	363.29	OK	27.2001	0.094	17.81	7.78	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	375.68	OK	67.5712	0.082	16.24	0.15	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.79	0.76	746.12	359.51	OK	22.8444	0.098	18.27	0.14	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	376.48	OK	74.4701	0.081	16.13	0.12	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	360.31	OK	23.6532	0.097	18.18	0.07	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.83	0.76	746.12	375.63	OK	67.1938	0.082	16.24	0.05	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.80	0.76	746.12	363.50	OK	27.4894	0.094	17.78	0.05	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.85	0.76	746.12	382.40	OK	286.979	0.076	15.36	0.13	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.82	0.76	746.12	370.27	OK	41.2989	0.087	16.93	0.09	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.84	0.76	746.12	378.62	OK	101.954	0.079	15.86	9.65	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.81	0.76	746.12	366.49	OK	32.2989	0.091	17.41	9.68	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.84	0.76	746.12	379.42	OK	118.224	0.078	15.75	14.37	OK
CUBIERTA	M-8	80.88	265	71.16492188	71.16	0.81	0.76	746.12	367.29	OK	33.8751	0.090	17.31	27.86	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1420.77	OK	83.737	0.039	171.54	0.06	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1360.04	OK	21.89	0.056	227.53	0.01	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1414.38	OK	65.1202	0.041	177.54	0.07	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1362.33	OK	22.5434	0.055	225.47	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1424.03	OK	97.9175	0.039	168.47	0.05	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1371.98	OK	25.7624	0.052	216.71	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1424.03	OK	97.9175	0.039	168.47	0.05	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1371.98	OK	25.7624	0.052	216.71	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1418.00	OK	74.5199	0.040	174.15	0.06	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1365.95	OK	23.6567	0.054	222.19	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1418.00	OK	74.5199	0.040	174.15	0.06	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1365.95	OK	23.6567	0.054	222.19	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1432.95	OK	181.139	0.036	160.05	0.00	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1380.90	OK	29.6186	0.050	208.57	0.05	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1409.08	OK	54.9119	0.042	182.50	0.10	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1357.03	OK	21.0808	0.056	230.25	0.03	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1426.76	OK	113.998	0.038	165.90	0.00	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1374.70	OK	26.8352	0.052	214.23	0.10	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1415.28	OK	67.2149	0.041	176.71	0.12	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1363.22	OK	22.8086	0.055	224.66	0.08	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1421.69	OK	87.2751	0.039	170.69	0.06	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1382.64	OK	30.506	0.049	206.97	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1421.69	OK	87.2751	0.039	170.69	0.06	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1382.64	OK	30.506	0.049	206.97	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.85	0.76	2801.16	1440.86	OK	708.944	0.034	152.54	0.02	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1401.82	OK	45.1233	0.044	189.27	0.05	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1416.99	OK	71.6288	0.040	175.10	0.09	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1377.95	OK	28.2272	0.051	211.27	0.04	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	f _{Mn}	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1434.66	OK	216.152	0.036	158.42	0.03	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.82	0.76	2801.16	1395.62	OK	39.1247	0.046	195.01	0.11	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1423.18	OK	93.7691	0.039	169.28	0.10	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1384.14	OK	31.3073	0.049	205.60	0.09	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.83	0.76	2801.16	1415.12	OK	66.8344	0.041	176.85	0.03	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1363.06	OK	22.7612	0.055	224.80	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1426.92	OK	115.091	0.038	165.75	0.09	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1374.86	OK	26.9	0.052	214.09	0.02	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1418.60	OK	76.3253	0.040	173.59	0.02	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.80	0.76	2801.16	1366.54	OK	23.8497	0.054	221.65	0.05	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1423.44	OK	94.9878	0.039	169.03	0.09	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1371.38	OK	25.5391	0.053	217.26	0.06	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1423.02	OK	93.0384	0.039	169.43	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.81	0.76	2801.16	1383.98	OK	31.2207	0.049	205.74	0.01	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1434.82	OK	220.072	0.036	158.27	0.07	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.82	0.76	2801.16	1395.78	OK	39.2584	0.046	194.86	0.02	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1426.50	OK	112.255	0.038	166.15	0.00	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.82	0.76	2801.16	1387.46	OK	33.2393	0.048	202.54	0.05	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.84	0.76	2801.16	1431.34	OK	157.168	0.037	161.57	0.08	OK
CUBIERTA	M-9	315.75	1470	323.3849385	315.75	0.82	0.76	2801.16	1392.30	OK	36.5041	0.047	198.08	0.06	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	796.19	OK	44.7934	0.058	69.18	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.76	0.76	1592.47	732.76	OK	11.4865	0.091	95.96	0.00	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	789.45	OK	34.8419	0.061	72.14	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.76	0.76	1592.47	735.09	OK	11.8367	0.090	95.02	0.01	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	799.69	OK	52.4886	0.057	67.63	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	745.32	OK	13.6306	0.084	90.86	0.00	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	799.69	OK	52.4886	0.057	67.63	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	745.32	OK	13.6306	0.084	90.86	0.00	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	793.29	OK	39.9148	0.060	70.45	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	738.93	OK	12.4568	0.087	93.47	0.00	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	793.29	OK	39.9148	0.060	70.45	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	738.93	OK	12.4568	0.087	93.47	0.00	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	793.29	OK	39.9148	0.060	70.45	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	738.93	OK	12.4568	0.087	93.47	0.00	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.84	0.76	1592.47	806.55	OK	78.6268	0.053	64.57	0.19	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.78	0.76	1592.47	752.18	OK	15.1337	0.080	88.04	0.11	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.81	0.76	1592.47	786.43	OK	31.6443	0.063	73.46	0.12	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.76	0.76	1592.47	732.07	OK	11.3857	0.091	96.24	0.10	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	803.77	OK	65.4951	0.055	65.81	0.17	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.78	0.76	1592.47	749.40	OK	14.4905	0.082	89.18	0.25	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	789.21	OK	34.5569	0.062	72.24	0.11	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.76	0.76	1592.47	734.84	OK	11.7986	0.090	95.12	0.22	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	797.26	OK	46.9154	0.058	68.70	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.78	0.76	1592.47	756.49	OK	16.2416	0.078	86.24	0.00	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	797.26	OK	46.9154	0.058	68.70	0.02	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.78	0.76	1592.47	756.49	OK	16.2416	0.078	86.24	0.00	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.84	0.76	1592.47	814.99	OK	197.363	0.049	60.77	0.19	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.80	0.76	1592.47	774.22	OK	22.9651	0.069	78.74	0.12	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	794.88	OK	42.453	0.059	69.75	0.14	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.78	0.76	1592.47	754.10	OK	15.6106	0.079	87.24	0.11	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.84	0.76	1592.47	812.22	OK	132.203	0.051	62.02	0.17	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.80	0.76	1592.47	771.44	OK	21.5926	0.070	79.93	0.27	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	797.65	OK	47.7368	0.057	68.53	0.13	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.78	0.76	1592.47	756.88	OK	16.3498	0.078	86.08	0.25	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	801.45	OK	57.4306	0.056	66.84	0.10	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	747.09	OK	13.9904	0.083	90.14	0.04	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	791.53	OK	37.4156	0.060	71.23	0.05	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.76	0.76	1592.47	737.16	OK	12.1645	0.088	94.19	0.04	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	799.64	OK	52.3606	0.057	67.65	0.09	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	745.27	OK	13.6206	0.084	90.88	0.12	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.82	0.76	1592.47	793.34	OK	39.9902	0.060	70.43	0.04	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.77	0.76	1592.47	738.98	OK	12.4653	0.087	93.45	0.13	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.84	0.76	1592.47	809.90	OK	103.48	0.052	63.07	0.10	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.80	0.76	1592.47	769.12	OK	20.5593	0.071	80.92	0.04	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	799.97	OK	53.2375	0.056	67.50	0.06	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.79	0.76	1592.47	759.20	OK	17.0186	0.077	85.11	0.05	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.84	0.76	1592.47	808.08	OK	88.3806	0.053	63.88	0.09	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.79	0.76	1592.47	767.31	OK	19.8135	0.072	81.69	0.14	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.83	0.76	1592.47	801.79	OK	58.4824	0.056	66.69	0.05	OK
CUBIERTA	M-10	177.00	745	175.1332031	175.13	0.79	0.76	1592.47	761.01	OK	17.5781	0.076	84.35	0.14	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	387.52	OK	30.31	0.086	19.57	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.72	0.76	790.49	345.92	OK	8.74629	0.131	25.18	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.80	0.76	790.49	381.72	OK	23.1153	0.092	20.40	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.72	0.76	790.49	346.07	OK	8.77106	0.130	25.16	0.01	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	390.35	OK	35.6209	0.083	19.15	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.74	0.76	790.49	354.70	OK	10.463	0.120	24.08	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	390.35	OK	35.6209	0.083	19.15	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.74	0.76	790.49	354.70	OK	10.463	0.120	24.08	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.80	0.76	790.49	384.96	OK	26.6766	0.089	19.94	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.73	0.76	790.49	349.31	OK	9.34659	0.127	24.76	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.80	0.76	790.49	384.96	OK	26.6766	0.089	19.94	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.73	0.76	790.49	349.31	OK	9.34659	0.127	24.76	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.80	0.76	790.49	384.96	OK	26.6766	0.089	19.94	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.73	0.76	790.49	349.31	OK	9.34659	0.127	24.76	0.00	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.84	0.76	790.49	400.40	OK	89.0705	0.074	17.66	0.18	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.76	0.76	790.49	364.75	OK	13.2938	0.109	22.76	0.19	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.78	0.76	790.49	374.92	OK	17.9437	0.099	21.36	0.14	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.71	0.76	790.49	339.26	OK	7.73939	0.139	25.99	0.16	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.82	0.76	790.49	392.05	OK	39.7177	0.082	18.91	0.36	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.74	0.76	790.49	356.39	OK	10.8614	0.118	23.86	0.41	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.80	0.76	790.49	383.27	OK	24.6977	0.090	20.18	0.33	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.73	0.76	790.49	347.62	OK	9.03828	0.129	24.97	0.38	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	388.14	OK	31.3383	0.086	19.48	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.75	0.76	790.49	361.40	OK	12.2127	0.113	23.20	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	388.14	OK	31.3383	0.086	19.48	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.75	0.76	790.49	361.40	OK	12.2127	0.113	23.20	0.00	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.85	0.76	790.49	407.35	OK	20783.3	0.068	16.60	0.19	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.79	0.76	790.49	380.62	OK	22.095	0.093	20.56	0.21	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.80	0.76	790.49	381.87	OK	23.2588	0.092	20.38	0.15	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.74	0.76	790.49	355.13	OK	10.5616	0.120	24.02	0.18	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.83	0.76	790.49	399.00	OK	73.9546	0.076	17.87	0.38	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.78	0.76	790.49	372.26	OK	16.4704	0.101	21.73	0.45	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	390.22	OK	35.3374	0.084	19.17	0.35	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.76	0.76	790.49	363.49	OK	12.867	0.111	22.93	0.42	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.82	0.76	790.49	394.95	OK	49.355	0.079	18.47	0.07	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.75	0.76	790.49	359.30	OK	11.6111	0.115	23.48	0.06	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.79	0.76	790.49	380.37	OK	21.8763	0.093	20.60	0.05	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.72	0.76	790.49	344.71	OK	8.54748	0.132	25.33	0.07	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	390.04	OK	34.9398	0.084	19.20	0.18	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.74	0.76	790.49	354.39	OK	10.391	0.121	24.12	0.20	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.80	0.76	790.49	385.28	OK	27.0822	0.088	19.89	0.17	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.73	0.76	790.49	349.63	OK	9.40654	0.126	24.72	0.21	OK



NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.84	0.76	790.49	401.90	OK	113.967	0.073	17.43	0.07	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.78	0.76	790.49	375.17	OK	18.095	0.098	21.33	0.07	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.81	0.76	790.49	387.32	OK	29.9981	0.086	19.60	0.06	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.75	0.76	790.49	360.58	OK	11.9723	0.114	23.31	0.07	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.83	0.76	790.49	396.99	OK	59.3642	0.077	18.17	0.19	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.77	0.76	790.49	370.25	OK	15.4957	0.103	22.01	0.23	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.82	0.76	790.49	392.23	OK	40.2264	0.082	18.88	0.18	OK
CUBIERTA	M-11	86.10	295	77.105625	77.11	0.76	0.76	790.49	365.49	OK	13.5583	0.108	22.66	0.23	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1336.07	OK	76.0728	0.043	159.25	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1275.17	OK	20.3289	0.060	210.36	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.83	0.76	2638.47	1329.56	OK	59.3758	0.044	164.82	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1277.36	OK	20.9046	0.059	208.56	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1339.45	OK	88.9763	0.042	156.34	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1287.25	OK	23.9418	0.056	200.40	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1339.45	OK	88.9763	0.042	156.34	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1287.25	OK	23.9418	0.056	200.40	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.83	0.76	2638.47	1333.27	OK	67.8838	0.043	161.65	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1281.07	OK	21.9541	0.058	205.51	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.83	0.76	2638.47	1333.27	OK	67.8838	0.043	161.65	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1281.07	OK	21.9541	0.058	205.51	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1346.67	OK	138.846	0.040	150.12	0.06	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1294.47	OK	26.7394	0.054	194.41	0.05	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.83	0.76	2638.47	1326.05	OK	53.0516	0.045	167.81	0.08	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1273.85	OK	19.9953	0.060	211.44	0.04	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1343.77	OK	113.369	0.040	152.62	0.05	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1291.57	OK	25.5428	0.055	196.82	0.11	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	f _{Mn}	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.83	0.76	2638.47	1328.95	OK	58.1816	0.045	165.34	0.07	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1276.75	OK	20.7422	0.060	209.06	0.10	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1337.10	OK	79.617	0.042	158.36	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1297.96	OK	28.3223	0.053	191.51	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1337.10	OK	79.617	0.042	158.36	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1297.96	OK	28.3223	0.053	191.51	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.85	0.76	2638.47	1354.84	OK	371.973	0.038	143.04	0.07	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.82	0.76	2638.47	1315.69	OK	40.2644	0.048	176.60	0.05	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.83	0.76	2638.47	1334.21	OK	70.449	0.043	160.84	0.08	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1295.06	OK	26.9959	0.054	193.92	0.04	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.85	0.76	2638.47	1351.93	OK	233.24	0.038	145.56	0.06	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.82	0.76	2638.47	1312.78	OK	37.691	0.049	179.06	0.12	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1337.12	OK	79.6628	0.042	158.34	0.07	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1297.97	OK	28.3284	0.053	191.49	0.11	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1340.35	OK	93.1705	0.041	155.56	0.03	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1288.15	OK	24.26	0.056	199.66	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.83	0.76	2638.47	1332.36	OK	65.6063	0.044	162.42	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1280.17	OK	21.6903	0.059	206.25	0.02	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1336.19	OK	76.4649	0.043	159.14	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1283.99	OK	22.8523	0.057	203.10	0.05	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1336.53	OK	77.6154	0.042	158.85	0.02	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.80	0.76	2638.47	1284.33	OK	22.9625	0.057	202.82	0.06	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1348.52	OK	161.9	0.039	148.52	0.03	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.82	0.76	2638.47	1309.37	OK	35.0444	0.050	181.94	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1340.53	OK	94.0605	0.041	155.41	0.01	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.81	0.76	2638.47	1301.38	OK	30.065	0.052	188.64	0.02	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1344.35	OK	117.742	0.040	152.12	0.00	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.82	0.76	2638.47	1305.21	OK	32.2658	0.051	185.44	0.06	OK



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NIVEL	PIER	AXIAL										FLEXION			
		0.10*f _m *A _e	ab	0.25*P _b	Plim	f	Re	Po	fPn	NOTA	INDCE	C/L	fMn	INDICE	NOTA
		(KN)	(mm)	(KN)	(KN)			(KN)	(KN)						
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.84	0.76	2638.47	1344.70	OK	120.458	0.040	151.82	0.02	OK
CUBIERTA	M-12	296.61	1360	302.8985512	296.61	0.82	0.76	2638.47	1305.55	OK	32.4787	0.051	185.15	0.06	OK

NIVEL	PIER	CORTANTE															
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.						
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn	Nota
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	51	OK	1400	0	887.76	488.18	343.1197752	488.175136	188.17	OK
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.71	94.03	43	OK	1400	0	887.76	436.42	343.1197752	436.4233589	158.92	OK
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	37	OK	1400	0	887.76	488.17	343.1197752	488.1685072	189.01	OK
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.72	94.03	31	OK	1400	0	887.76	436.43	343.1197752	436.4285043	159.76	OK
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	59	OK	1400	0	887.76	488.18	343.1197752	488.1766818	187.86	OK
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.71	94.03	50	OK	1400	0	887.76	436.43	343.1197752	436.4260762	158.61	OK
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	59	OK	1400	0	887.76	488.18	343.1197752	488.1766818	187.86	OK
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.71	94.03	50	OK	1400	0	887.76	436.43	343.1197752	436.4260762	158.61	OK
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	43	OK	1400	0	887.76	488.17	343.1197752	488.1700666	188.58	OK
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.72	94.03	36	OK	1400	0	887.76	436.43	343.1197752	436.4278023	159.33	OK
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	43	OK	1400	0	887.76	488.17	343.1197752	488.1700666	188.58	OK
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.72	94.03	36	OK	1400	0	887.76	436.43	343.1197752	436.4278023	159.33	OK
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	43	OK	1400	0	887.76	488.17	343.1197752	488.1700666	188.58	OK
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.72	94.03	36	OK	1400	0	887.76	436.43	343.1197752	436.4278023	159.33	OK
CUBIERTA	M-1	0.263	328,800	0.04	0.26	203.63	122.18	9.390	OK	1400	0	887.76	519.43	343.1197752	519.4275886	216.64	OK



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-1	0.604	328,800	0.04	0.60	157.47	94.48	7.261	OK	1400	0	887.76	437.76	343.1197752	437.7639886	170.48	OK	900
CUBIERTA	M-1	0.611	328,800	0.03	0.61	156.60	93.96	11.050	OK	1400	0	887.76	436.23	343.1197752	436.228241	165.11	OK	900
CUBIERTA	M-1	0.601	328,800	0.03	0.60	157.87	94.72	11.140	OK	1400	0	887.76	438.47	343.1197752	438.4744948	166.38	OK	900
CUBIERTA	M-1	0.181	328,800	0.02	0.18	207.95	124.77	15.704	OK	1400	0	887.76	538.89	343.1197752	887.76	215.90	OK	900
CUBIERTA	M-1	0.599	328,800	0.02	0.60	158.22	94.93	11.948	OK	1400	0	887.76	439.09	343.1197752	439.0900982	166.16	OK	900
CUBIERTA	M-1	0.935	328,800	0.01	0.94	112.71	67.63	19.677	OK	1400	0	887.76	358.58	343.1197752	358.5790137	116.15	OK	900
CUBIERTA	M-1	0.584	328,800	0.01	0.58	160.19	96.12	27.966	OK	1400	0	887.76	442.58	343.1197752	442.5832743	163.63	OK	900
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	48.808	OK	1400	0	887.76	488.17	343.1197752	488.1668144	188.24	OK	900
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.72	94.03	41.133	OK	1400	0	887.76	436.43	343.1197752	436.4293507	159.00	OK	900
CUBIERTA	M-1	0.393	328,800	0.01	0.39	185.96	111.58	48.808	OK	1400	0	887.76	488.17	343.1197752	488.1668144	188.24	OK	900
CUBIERTA	M-1	0.610	328,800	0.01	0.61	156.72	94.03	41.133	OK	1400	0	887.76	436.43	343.1197752	436.4293507	159.00	OK	900
CUBIERTA	M-1	0.308	328,800	0.04	0.31	197.55	118.53	9.734	OK	1400	0	887.76	508.68	343.1197752	508.6778701	209.73	OK	900
CUBIERTA	M-1	0.604	328,800	0.04	0.60	157.52	94.51	7.761	OK	1400	0	887.76	437.86	343.1197752	437.8565017	169.70	OK	900
CUBIERTA	M-1	0.521	328,800	0.03	0.52	168.73	101.24	10.842	OK	1400	0	887.76	457.68	343.1197752	457.680964	178.07	OK	900
CUBIERTA	M-1	0.602	328,800	0.03	0.60	157.77	94.66	10.138	OK	1400	0	887.76	438.29	343.1197752	438.2927455	167.11	OK	900
CUBIERTA	M-1	0.249	328,800	0.02	0.25	207.95	124.77	17.546	OK	1400	0	887.76	522.77	343.1197752	887.76	215.06	OK	900
CUBIERTA	M-1	0.597	328,800	0.02	0.60	158.40	95.04	13.365	OK	1400	0	887.76	439.40	343.1197752	439.4009715	165.51	OK	900
CUBIERTA	M-1	0.676	328,800	0.01	0.68	147.79	88.68	20.762	OK	1400	0	887.76	420.64	343.1197752	420.6449421	152.07	OK	900
CUBIERTA	M-1	0.589	328,800	0.01	0.59	159.51	95.71	22.409	OK	1400	0	887.76	441.38	343.1197752	441.3816245	163.79	OK	900
CUBIERTA	M-1	0.396	328,800	0.01	0.40	185.63	111.38	40.570	OK	1400	0	887.76	487.58	343.1197752	487.5785588	188.37	OK	900
CUBIERTA	M-1	0.607	328,800	0.01	0.61	157.04	94.23	34.323	OK	1400	0	887.76	437.01	343.1197752	437.0094413	159.79	OK	900
CUBIERTA	M-1	0.394	328,800	0.02	0.39	185.83	111.50	15.372	OK	1400	0	887.76	487.95	343.1197752	487.9466226	193.09	OK	900
CUBIERTA	M-1	0.609	328,800	0.02	0.61	156.84	94.10	12.973	OK	1400	0	887.76	436.65	343.1197752	436.6454795	164.09	OK	900
CUBIERTA	M-1	0.372	328,800	0.00	0.37	188.80	113.28	296.309	OK	1400	0	887.76	493.19	343.1197752	493.1901505	189.18	OK	900
CUBIERTA	M-1	0.631	328,800	0.00	0.63	153.90	92.34	241.537	OK	1400	0	887.76	431.45	343.1197752	431.4458739	154.28	OK	900
CUBIERTA	M-1	0.395	328,800	0.01	0.40	185.70	111.42	27.004	OK	1400	0	887.76	487.71	343.1197752	487.7079596	189.83	OK	900
CUBIERTA	M-1	0.608	328,800	0.01	0.61	156.98	94.19	22.827	OK	1400	0	887.76	436.89	343.1197752	436.8886174	161.10	OK	900
CUBIERTA	M-1	0.395	328,800	0.01	0.40	185.70	111.42	31.129	OK	1400	0	887.76	487.71	343.1197752	487.7140908	189.28	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-1	0.608	328,800	0.01	0.61	156.97	94.18	26.312	OK	1400	0	887.76	436.87	343.1197752	436.8726973	160.55	OK	900
CUBIERTA	M-1	0.395	328,800	0.02	0.39	185.82	111.49	17.368	OK	1400	0	887.76	487.92	343.1197752	487.9174055	192.24	OK	900
CUBIERTA	M-1	0.609	328,800	0.02	0.61	156.85	94.11	14.661	OK	1400	0	887.76	436.67	343.1197752	436.6733733	163.27	OK	900
CUBIERTA	M-1	0.411	328,800	0.00	0.41	183.56	110.14	243.720	OK	1400	0	887.76	483.93	343.1197752	483.9257159	184.01	OK	900
CUBIERTA	M-1	0.592	328,800	0.00	0.59	159.10	95.46	211.242	OK	1400	0	887.76	440.65	343.1197752	440.6480264	159.55	OK	900
CUBIERTA	M-1	0.396	328,800	0.01	0.40	185.63	111.38	33.836	OK	1400	0	887.76	487.59	343.1197752	487.5905024	188.92	OK	900
CUBIERTA	M-1	0.607	328,800	0.01	0.61	157.04	94.22	28.624	OK	1400	0	887.76	437.00	343.1197752	437.002277	160.33	OK	900
CUBIERTA	M-2	4.893	64,350	0.08	4.89	20.35	12.21	2.412	OK	1400	0	173.745	-216.27	67.15254725	67.15254725	25.41	OK	900
CUBIERTA	M-2	4.224	64,350	0.08	4.22	20.35	12.21	2.412	OK	1400	0	173.745	-160.29	67.15254725	67.15254725	25.41	OK	900
CUBIERTA	M-2	4.894	64,350	0.11	4.89	20.35	12.21	1.783	OK	1400	0	173.745	-216.39	67.15254725	67.15254725	27.20	OK	900
CUBIERTA	M-2	4.222	64,350	0.11	4.22	20.35	12.21	1.783	OK	1400	0	173.745	-160.17	67.15254725	67.15254725	27.20	OK	900
CUBIERTA	M-2	4.893	64,350	0.07	4.89	20.35	12.21	2.815	OK	1400	0	173.745	-216.27	67.15254725	67.15254725	24.69	OK	900
CUBIERTA	M-2	4.224	64,350	0.07	4.22	20.35	12.21	2.815	OK	1400	0	173.745	-160.29	67.15254725	67.15254725	24.69	OK	900
CUBIERTA	M-2	4.893	64,350	0.07	4.89	20.35	12.21	2.815	OK	1400	0	173.745	-216.27	67.15254725	67.15254725	24.69	OK	900
CUBIERTA	M-2	4.224	64,350	0.07	4.22	20.35	12.21	2.815	OK	1400	0	173.745	-160.29	67.15254725	67.15254725	24.69	OK	900
CUBIERTA	M-2	4.894	64,350	0.09	4.89	20.35	12.21	2.067	OK	1400	0	173.745	-216.36	67.15254725	67.15254725	26.26	OK	900
CUBIERTA	M-2	4.223	64,350	0.09	4.22	20.35	12.21	2.067	OK	1400	0	173.745	-160.21	67.15254725	67.15254725	26.26	OK	900
CUBIERTA	M-2	4.894	64,350	0.09	4.89	20.35	12.21	2.067	OK	1400	0	173.745	-216.36	67.15254725	67.15254725	26.26	OK	900
CUBIERTA	M-2	4.223	64,350	0.09	4.22	20.35	12.21	2.067	OK	1400	0	173.745	-160.21	67.15254725	67.15254725	26.26	OK	900
CUBIERTA	M-2	4.894	64,350	0.09	4.89	20.35	12.21	2.067	OK	1400	0	173.745	-216.36	67.15254725	67.15254725	26.26	OK	900
CUBIERTA	M-2	4.223	64,350	0.09	4.22	20.35	12.21	2.067	OK	1400	0	173.745	-160.21	67.15254725	67.15254725	26.26	OK	900
CUBIERTA	M-2	7.975	64,350	0.06	7.97	20.35	12.21	3.250	OK	1400	0	173.745	-474.08	67.15254725	67.15254725	24.11	OK	900
CUBIERTA	M-2	3.745	64,350	0.06	3.75	20.35	12.21	3.250	OK	1400	0	173.745	-120.24	67.15254725	67.15254725	24.11	OK	900
CUBIERTA	M-2	3.109	64,350	0.10	3.11	20.35	12.21	1.882	OK	1400	0	173.745	-67.05	67.15254725	67.15254725	26.84	OK	900
CUBIERTA	M-2	4.500	64,350	0.10	4.50	20.35	12.21	1.882	OK	1400	0	173.745	-183.42	67.15254725	67.15254725	26.84	OK	900
CUBIERTA	M-2	6.970	64,350	0.06	6.97	20.35	12.21	2.930	OK	1400	0	173.745	-389.99	67.15254725	67.15254725	24.52	OK	900
CUBIERTA	M-2	4.054	64,350	0.06	4.05	20.35	12.21	2.930	OK	1400	0	173.745	-146.12	67.15254725	67.15254725	24.52	OK	900
CUBIERTA	M-2	3.470	64,350	0.09	3.47	20.35	12.21	2.009	OK	1400	0	173.745	-97.23	67.15254725	67.15254725	26.43	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-2	4.339	64,350	0.09	4.34	20.35	12.21	2.009	OK	1400	0	173.745	-169.93	67.15254725	67.15254725	26.43	OK	900
CUBIERTA	M-2	4.894	64,350	0.08	4.89	20.35	12.21	2.377	OK	1400	0	173.745	-216.39	67.15254725	67.15254725	25.49	OK	900
CUBIERTA	M-2	4.222	64,350	0.08	4.22	20.35	12.21	2.377	OK	1400	0	173.745	-160.17	67.15254725	67.15254725	25.49	OK	900
CUBIERTA	M-2	4.894	64,350	0.08	4.89	20.35	12.21	2.377	OK	1400	0	173.745	-216.39	67.15254725	67.15254725	25.49	OK	900
CUBIERTA	M-2	4.222	64,350	0.08	4.22	20.35	12.21	2.377	OK	1400	0	173.745	-160.17	67.15254725	67.15254725	25.49	OK	900
CUBIERTA	M-2	11.023	64,350	0.03	11.02	20.35	12.21	6.466	OK	1400	0	173.745	-729.05	67.15254725	67.15254725	22.24	OK	900
CUBIERTA	M-2	3.272	64,350	0.03	3.27	20.35	12.21	6.466	OK	1400	0	173.745	-80.71	67.15254725	67.15254725	22.24	OK	900
CUBIERTA	M-2	2.387	64,350	0.07	2.39	20.35	12.21	2.644	OK	1400	0	173.745	-6.62	67.15254725	67.15254725	24.97	OK	900
CUBIERTA	M-2	4.613	64,350	0.07	4.61	20.35	12.21	2.644	OK	1400	0	173.745	-192.83	67.15254725	67.15254725	24.97	OK	900
CUBIERTA	M-2	8.656	64,350	0.04	8.66	20.35	12.21	5.312	OK	1400	0	173.745	-531.10	67.15254725	67.15254725	22.65	OK	900
CUBIERTA	M-2	3.918	64,350	0.04	3.92	20.35	12.21	5.312	OK	1400	0	173.745	-134.71	67.15254725	67.15254725	22.65	OK	900
CUBIERTA	M-2	2.837	64,350	0.07	2.84	20.35	12.21	2.901	OK	1400	0	173.745	-44.31	67.15254725	67.15254725	24.56	OK	900
CUBIERTA	M-2	4.391	64,350	0.07	4.39	20.35	12.21	2.901	OK	1400	0	173.745	-174.28	67.15254725	67.15254725	24.56	OK	900
CUBIERTA	M-2	4.728	64,350	0.09	4.73	20.35	12.21	2.138	OK	1400	0	173.745	-202.44	67.15254725	67.15254725	26.06	OK	900
CUBIERTA	M-2	4.390	64,350	0.09	4.39	20.35	12.21	2.138	OK	1400	0	173.745	-174.18	67.15254725	67.15254725	26.06	OK	900
CUBIERTA	M-2	5.103	64,350	0.07	5.10	20.35	12.21	2.693	OK	1400	0	173.745	-233.80	67.15254725	67.15254725	24.88	OK	900
CUBIERTA	M-2	4.013	64,350	0.07	4.01	20.35	12.21	2.693	OK	1400	0	173.745	-142.69	67.15254725	67.15254725	24.88	OK	900
CUBIERTA	M-2	4.833	64,350	0.08	4.83	20.35	12.21	2.420	OK	1400	0	173.745	-211.23	67.15254725	67.15254725	25.39	OK	900
CUBIERTA	M-2	4.284	64,350	0.08	4.28	20.35	12.21	2.420	OK	1400	0	173.745	-165.35	67.15254725	67.15254725	25.39	OK	900
CUBIERTA	M-2	4.953	64,350	0.08	4.95	20.35	12.21	2.348	OK	1400	0	173.745	-221.26	67.15254725	67.15254725	25.55	OK	900
CUBIERTA	M-2	4.164	64,350	0.08	4.16	20.35	12.21	2.348	OK	1400	0	173.745	-155.29	67.15254725	67.15254725	25.55	OK	900
CUBIERTA	M-2	4.646	64,350	0.06	4.65	20.35	12.21	3.178	OK	1400	0	173.745	-195.64	67.15254725	67.15254725	24.19	OK	900
CUBIERTA	M-2	4.471	64,350	0.06	4.47	20.35	12.21	3.178	OK	1400	0	173.745	-181.00	67.15254725	67.15254725	24.19	OK	900
CUBIERTA	M-2	5.248	64,350	0.04	5.25	20.35	12.21	4.581	OK	1400	0	173.745	-246.00	67.15254725	67.15254725	23.01	OK	900
CUBIERTA	M-2	3.867	64,350	0.04	3.87	20.35	12.21	4.581	OK	1400	0	173.745	-130.45	67.15254725	67.15254725	23.01	OK	900
CUBIERTA	M-2	4.796	64,350	0.05	4.80	20.35	12.21	3.844	OK	1400	0	173.745	-208.18	67.15254725	67.15254725	23.53	OK	900
CUBIERTA	M-2	4.321	64,350	0.05	4.32	20.35	12.21	3.844	OK	1400	0	173.745	-168.42	67.15254725	67.15254725	23.53	OK	900
CUBIERTA	M-2	4.985	64,350	0.05	4.99	20.35	12.21	3.665	OK	1400	0	173.745	-223.98	67.15254725	67.15254725	23.68	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-2	4.131	64,350	0.05	4.13	20.35	12.21	3.665	OK	1400	0	173.745	-152.56	67.15254725	67.15254725	23.68	OK	900
CUBIERTA	M-3	1.288	131,340	0.02	1.29	41.53	24.92	8.635	OK	1400	0	354.618	109.59	137.0600708	137.0600708	44.42	OK	900
CUBIERTA	M-3	1.505	131,340	0.02	1.51	41.53	24.92	8.635	OK	1400	0	354.618	88.78	137.0600708	137.0600708	44.42	OK	900
CUBIERTA	M-3	1.262	131,340	0.03	1.26	41.53	24.92	6.563	OK	1400	0	354.618	112.07	137.0600708	137.0600708	45.33	OK	900
CUBIERTA	M-3	1.531	131,340	0.03	1.53	41.53	24.92	6.563	OK	1400	0	354.618	86.30	137.0600708	137.0600708	45.33	OK	900
CUBIERTA	M-3	1.288	131,340	0.02	1.29	41.53	24.92	10.074	OK	1400	0	354.618	109.59	137.0600708	137.0600708	44.01	OK	900
CUBIERTA	M-3	1.505	131,340	0.02	1.51	41.53	24.92	10.074	OK	1400	0	354.618	88.79	137.0600708	137.0600708	44.01	OK	900
CUBIERTA	M-3	1.288	131,340	0.02	1.29	41.53	24.92	10.074	OK	1400	0	354.618	109.59	137.0600708	137.0600708	44.01	OK	900
CUBIERTA	M-3	1.505	131,340	0.02	1.51	41.53	24.92	10.074	OK	1400	0	354.618	88.79	137.0600708	137.0600708	44.01	OK	900
CUBIERTA	M-3	1.269	131,340	0.03	1.27	41.53	24.92	7.550	OK	1400	0	354.618	111.38	137.0600708	137.0600708	44.83	OK	900
CUBIERTA	M-3	1.524	131,340	0.03	1.52	41.53	24.92	7.550	OK	1400	0	354.618	87.00	137.0600708	137.0600708	44.83	OK	900
CUBIERTA	M-3	1.269	131,340	0.03	1.27	41.53	24.92	7.550	OK	1400	0	354.618	111.38	137.0600708	137.0600708	44.83	OK	900
CUBIERTA	M-3	1.524	131,340	0.03	1.52	41.53	24.92	7.550	OK	1400	0	354.618	87.00	137.0600708	137.0600708	44.83	OK	900
CUBIERTA	M-3	1.269	131,340	0.03	1.27	41.53	24.92	7.550	OK	1400	0	354.618	111.38	137.0600708	137.0600708	44.83	OK	900
CUBIERTA	M-3	1.524	131,340	0.03	1.52	41.53	24.92	7.550	OK	1400	0	354.618	87.00	137.0600708	137.0600708	44.83	OK	900
CUBIERTA	M-3	0.150	131,340	0.07	0.15	83.07	49.84	5.443	OK	1400	0	354.618	218.25	137.0600708	354.618	92.22	OK	900
CUBIERTA	M-3	1.839	131,340	0.07	1.84	41.53	24.92	2.721	OK	1400	0	354.618	56.88	137.0600708	137.0600708	50.69	OK	900
CUBIERTA	M-3	2.586	131,340	0.03	2.59	41.53	24.92	7.366	OK	1400	0	354.618	-47.44	137.0600708	137.0600708	44.92	OK	900
CUBIERTA	M-3	2.391	131,340	0.03	2.39	41.53	24.92	7.366	OK	1400	0	354.618	-14.27	137.0600708	137.0600708	44.92	OK	900
CUBIERTA	M-3	0.015	131,340	0.05	0.01	83.07	49.84	8.073	OK	1400	0	354.618	231.17	137.0600708	354.618	89.24	OK	900
CUBIERTA	M-3	1.589	131,340	0.05	1.59	41.53	24.92	4.037	OK	1400	0	354.618	80.80	137.0600708	137.0600708	47.71	OK	900
CUBIERTA	M-3	18.698	131,340	0.00	18.70	41.53	24.92	62.425	OK	1400	0	354.618	-2798.59	137.0600708	137.0600708	41.93	OK	900
CUBIERTA	M-3	2.644	131,340	0.00	2.64	41.53	24.92	62.425	OK	1400	0	354.618	-57.43	137.0600708	137.0600708	41.93	OK	900
CUBIERTA	M-3	1.262	131,340	0.02	1.26	41.53	24.92	8.751	OK	1400	0	354.618	112.07	137.0600708	137.0600708	44.38	OK	900
CUBIERTA	M-3	1.531	131,340	0.02	1.53	41.53	24.92	8.751	OK	1400	0	354.618	86.30	137.0600708	137.0600708	44.38	OK	900
CUBIERTA	M-3	1.262	131,340	0.02	1.26	41.53	24.92	8.751	OK	1400	0	354.618	112.07	137.0600708	137.0600708	44.38	OK	900
CUBIERTA	M-3	1.531	131,340	0.02	1.53	41.53	24.92	8.751	OK	1400	0	354.618	86.30	137.0600708	137.0600708	44.38	OK	900
CUBIERTA	M-3	0.329	131,340	0.06	0.33	77.77	46.66	5.743	OK	1400	0	354.618	201.17	137.0600708	201.1724232	85.90	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-3	1.878	131,340	0.06	1.88	41.53	24.92	3.067	OK	1400	0	354.618	53.19	137.0600708	137.0600708	49.66	OK	900
CUBIERTA	M-3	1.687	131,340	0.03	1.69	41.53	24.92	5.644	OK	1400	0	354.618	71.41	137.0600708	137.0600708	45.95	OK	900
CUBIERTA	M-3	2.191	131,340	0.03	2.19	41.53	24.92	5.644	OK	1400	0	354.618	19.90	137.0600708	137.0600708	45.95	OK	900
CUBIERTA	M-3	0.270	131,340	0.04	0.27	80.94	48.56	9.445	OK	1400	0	354.618	206.77	137.0600708	206.7746139	86.08	OK	900
CUBIERTA	M-3	1.600	131,340	0.04	1.60	41.53	24.92	4.847	OK	1400	0	354.618	79.77	137.0600708	137.0600708	46.67	OK	900
CUBIERTA	M-3	4.309	131,340	0.01	4.31	41.53	24.92	17.413	OK	1400	0	354.618	-341.70	137.0600708	137.0600708	42.96	OK	900
CUBIERTA	M-3	1.845	131,340	0.01	1.84	41.53	24.92	17.413	OK	1400	0	354.618	56.38	137.0600708	137.0600708	42.96	OK	900
CUBIERTA	M-3	8.663	131,340	0.00	8.66	41.53	24.92	131.852	OK	1400	0	354.618	-1085.19	137.0600708	137.0600708	41.72	OK	900
CUBIERTA	M-3	11.462	131,340	0.00	11.46	41.53	24.92	131.852	OK	1400	0	354.618	-1563.01	137.0600708	137.0600708	41.72	OK	900
CUBIERTA	M-3	0.962	131,340	0.05	0.96	43.59	26.16	4.386	OK	1400	0	354.618	140.71	137.0600708	140.7063107	49.56	OK	900
CUBIERTA	M-3	1.831	131,340	0.05	1.83	41.53	24.92	4.179	OK	1400	0	354.618	57.65	137.0600708	137.0600708	47.50	OK	900
CUBIERTA	M-3	1.674	131,340	0.02	1.67	41.53	24.92	10.187	OK	1400	0	354.618	72.70	137.0600708	137.0600708	43.98	OK	900
CUBIERTA	M-3	1.119	131,340	0.02	1.12	41.53	24.92	10.187	OK	1400	0	354.618	125.70	137.0600708	137.0600708	43.98	OK	900
CUBIERTA	M-3	0.985	131,340	0.03	0.99	42.34	25.40	7.633	OK	1400	0	354.618	138.48	137.0600708	138.479235	45.66	OK	900
CUBIERTA	M-3	1.808	131,340	0.03	1.81	41.53	24.92	7.488	OK	1400	0	354.618	59.88	137.0600708	137.0600708	44.86	OK	900
CUBIERTA	M-3	0.278	131,340	0.01	0.28	80.51	48.31	39.566	OK	1400	0	354.618	206.02	137.0600708	206.0194567	81.73	OK	900
CUBIERTA	M-3	3.072	131,340	0.01	3.07	41.53	24.92	20.411	OK	1400	0	354.618	-130.50	137.0600708	137.0600708	42.75	OK	900
CUBIERTA	M-3	0.900	131,340	0.04	0.90	46.94	28.16	5.711	OK	1400	0	354.618	146.62	137.0600708	146.6209221	51.87	OK	900
CUBIERTA	M-3	1.893	131,340	0.04	1.89	41.53	24.92	5.053	OK	1400	0	354.618	51.73	137.0600708	137.0600708	46.46	OK	900
CUBIERTA	M-3	1.977	131,340	0.01	1.98	41.53	24.92	17.620	OK	1400	0	354.618	43.70	137.0600708	137.0600708	42.95	OK	900
CUBIERTA	M-3	0.815	131,340	0.01	0.82	51.51	30.91	21.852	OK	1400	0	354.618	154.71	137.0600708	154.7110025	52.92	OK	900
CUBIERTA	M-3	0.863	131,340	0.02	0.86	48.95	29.37	12.791	OK	1400	0	354.618	150.18	137.0600708	150.1773309	51.24	OK	900
CUBIERTA	M-3	1.930	131,340	0.02	1.93	41.53	24.92	10.853	OK	1400	0	354.618	48.18	137.0600708	137.0600708	43.83	OK	900
CUBIERTA	M-4	1.240	132,210	0.02	1.24	41.81	25.09	9.399	OK	1400	0	356.967	114.91	137.9679607	137.9679607	44.48	OK	900
CUBIERTA	M-4	1.528	132,210	0.02	1.53	41.81	25.09	9.399	OK	1400	0	356.967	87.17	137.9679607	137.9679607	44.48	OK	900
CUBIERTA	M-4	1.231	132,210	0.03	1.23	41.81	25.09	6.935	OK	1400	0	356.967	115.80	137.9679607	137.9679607	45.43	OK	900
CUBIERTA	M-4	1.537	132,210	0.03	1.54	41.81	25.09	6.935	OK	1400	0	356.967	86.29	137.9679607	137.9679607	45.43	OK	900
CUBIERTA	M-4	1.240	132,210	0.02	1.24	41.81	25.09	10.965	OK	1400	0	356.967	114.91	137.9679607	137.9679607	44.10	OK	900



NIVEL	PIER	CORTANTE																6b
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn	Nota	
CUBIERTA	M-4	1.528	132,210	0.02	1.53	41.81	25.09	10.965	OK	1400	0	356.967	87.18	137.9679607	137.9679607	44.10	OK	900
CUBIERTA	M-4	1.240	132,210	0.02	1.24	41.81	25.09	10.965	OK	1400	0	356.967	114.91	137.9679607	137.9679607	44.10	OK	900
CUBIERTA	M-4	1.528	132,210	0.02	1.53	41.81	25.09	10.965	OK	1400	0	356.967	87.18	137.9679607	137.9679607	44.10	OK	900
CUBIERTA	M-4	1.233	132,210	0.02	1.23	41.81	25.09	8.044	OK	1400	0	356.967	115.56	137.9679607	137.9679607	44.93	OK	900
CUBIERTA	M-4	1.535	132,210	0.02	1.53	41.81	25.09	8.044	OK	1400	0	356.967	86.53	137.9679607	137.9679607	44.93	OK	900
CUBIERTA	M-4	1.233	132,210	0.02	1.23	41.81	25.09	8.044	OK	1400	0	356.967	115.56	137.9679607	137.9679607	44.93	OK	900
CUBIERTA	M-4	1.535	132,210	0.02	1.53	41.81	25.09	8.044	OK	1400	0	356.967	86.53	137.9679607	137.9679607	44.93	OK	900
CUBIERTA	M-4	1.233	132,210	0.02	1.23	41.81	25.09	8.044	OK	1400	0	356.967	115.56	137.9679607	137.9679607	44.93	OK	900
CUBIERTA	M-4	1.535	132,210	0.02	1.53	41.81	25.09	8.044	OK	1400	0	356.967	86.53	137.9679607	137.9679607	44.93	OK	900
CUBIERTA	M-4	0.459	132,210	0.08	0.46	71.19	42.71	4.000	OK	1400	0	356.967	189.95	137.9679607	189.9507797	81.87	OK	900
CUBIERTA	M-4	1.684	132,210	0.08	1.68	41.81	25.09	2.349	OK	1400	0	356.967	72.18	137.9679607	137.9679607	52.49	OK	900
CUBIERTA	M-4	2.198	132,210	0.04	2.20	41.81	25.09	4.759	OK	1400	0	356.967	18.83	137.9679607	137.9679607	47.08	OK	900
CUBIERTA	M-4	1.840	132,210	0.04	1.84	41.81	25.09	4.759	OK	1400	0	356.967	57.18	137.9679607	137.9679607	47.08	OK	900
CUBIERTA	M-4	0.149	132,210	0.05	0.15	83.62	50.17	8.051	OK	1400	0	356.967	219.81	137.9679607	356.967	89.85	OK	900
CUBIERTA	M-4	1.554	132,210	0.05	1.55	41.81	25.09	4.026	OK	1400	0	356.967	84.72	137.9679607	137.9679607	48.04	OK	900
CUBIERTA	M-4	9.224	132,210	0.01	9.22	41.81	25.09	30.406	OK	1400	0	356.967	-1188.73	137.9679607	137.9679607	42.63	OK	900
CUBIERTA	M-4	1.695	132,210	0.01	1.70	41.81	25.09	30.406	OK	1400	0	356.967	71.10	137.9679607	137.9679607	42.63	OK	900
CUBIERTA	M-4	1.231	132,210	0.02	1.23	41.81	25.09	9.247	OK	1400	0	356.967	115.80	137.9679607	137.9679607	44.52	OK	900
CUBIERTA	M-4	1.537	132,210	0.02	1.54	41.81	25.09	9.247	OK	1400	0	356.967	86.28	137.9679607	137.9679607	44.52	OK	900
CUBIERTA	M-4	1.231	132,210	0.02	1.23	41.81	25.09	9.247	OK	1400	0	356.967	115.80	137.9679607	137.9679607	44.52	OK	900
CUBIERTA	M-4	1.537	132,210	0.02	1.54	41.81	25.09	9.247	OK	1400	0	356.967	86.28	137.9679607	137.9679607	44.52	OK	900
CUBIERTA	M-4	0.631	132,210	0.07	0.63	61.84	37.10	3.829	OK	1400	0	356.967	173.41	137.9679607	173.4058807	71.53	OK	900
CUBIERTA	M-4	1.699	132,210	0.07	1.70	41.81	25.09	2.589	OK	1400	0	356.967	70.75	137.9679607	137.9679607	51.50	OK	900
CUBIERTA	M-4	1.657	132,210	0.05	1.66	41.81	25.09	4.008	OK	1400	0	356.967	74.75	137.9679607	137.9679607	48.07	OK	900
CUBIERTA	M-4	1.793	132,210	0.05	1.79	41.81	25.09	4.008	OK	1400	0	356.967	61.75	137.9679607	137.9679607	48.07	OK	900
CUBIERTA	M-4	0.408	132,210	0.04	0.41	73.96	44.38	8.463	OK	1400	0	356.967	194.86	137.9679607	194.8559433	79.21	OK	900
CUBIERTA	M-4	1.557	132,210	0.04	1.56	41.81	25.09	4.784	OK	1400	0	356.967	84.45	137.9679607	137.9679607	47.05	OK	900
CUBIERTA	M-4	3.529	132,210	0.01	3.53	41.81	25.09	13.842	OK	1400	0	356.967	-209.96	137.9679607	137.9679607	43.62	OK	900



NIVEL	PIER	CORTANTE																6b
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn	Nota	
CUBIERTA	M-4	1.610	132,210	0.01	1.61	41.81	25.09	13.842	OK	1400	0	356.967	79.30	137.9679607	137.9679607	43.62	OK	900
CUBIERTA	M-4	0.689	132,210	0.01	0.69	58.73	35.24	20.477	OK	1400	0	356.967	167.91	137.9679607	167.9076922	60.45	OK	900
CUBIERTA	M-4	2.080	132,210	0.01	2.08	41.81	25.09	14.577	OK	1400	0	356.967	34.14	137.9679607	137.9679607	43.53	OK	900
CUBIERTA	M-4	1.104	132,210	0.05	1.10	41.81	25.09	3.520	OK	1400	0	356.967	127.99	137.9679607	137.9679607	48.94	OK	900
CUBIERTA	M-4	1.664	132,210	0.05	1.66	41.81	25.09	3.520	OK	1400	0	356.967	74.09	137.9679607	137.9679607	48.94	OK	900
CUBIERTA	M-4	1.306	132,210	0.01	1.31	41.81	25.09	29.360	OK	1400	0	356.967	108.55	137.9679607	137.9679607	42.66	OK	900
CUBIERTA	M-4	1.462	132,210	0.01	1.46	41.81	25.09	29.360	OK	1400	0	356.967	93.56	137.9679607	137.9679607	42.66	OK	900
CUBIERTA	M-4	1.223	132,210	0.03	1.22	41.81	25.09	5.511	OK	1400	0	356.967	116.54	137.9679607	137.9679607	46.36	OK	900
CUBIERTA	M-4	1.545	132,210	0.03	1.55	41.81	25.09	5.511	OK	1400	0	356.967	85.53	137.9679607	137.9679607	46.36	OK	900
CUBIERTA	M-4	0.886	132,210	0.02	0.89	48.02	28.81	10.639	OK	1400	0	356.967	148.96	137.9679607	148.9586816	50.73	OK	900
CUBIERTA	M-4	1.883	132,210	0.02	1.88	41.81	25.09	9.262	OK	1400	0	356.967	53.10	137.9679607	137.9679607	44.52	OK	900
CUBIERTA	M-4	1.084	132,210	0.05	1.08	41.81	25.09	4.086	OK	1400	0	356.967	129.93	137.9679607	137.9679607	47.95	OK	900
CUBIERTA	M-4	1.684	132,210	0.05	1.68	41.81	25.09	4.086	OK	1400	0	356.967	72.15	137.9679607	137.9679607	47.95	OK	900
CUBIERTA	M-4	0.736	132,210	0.00	0.74	56.17	33.70	253.397	OK	1400	0	356.967	163.38	137.9679607	163.3763753	56.30	OK	900
CUBIERTA	M-4	2.033	132,210	0.00	2.03	41.81	25.09	188.610	OK	1400	0	356.967	38.66	137.9679607	137.9679607	41.94	OK	900
CUBIERTA	M-4	1.221	132,210	0.03	1.22	41.81	25.09	7.037	OK	1400	0	356.967	116.72	137.9679607	137.9679607	45.37	OK	900
CUBIERTA	M-4	1.547	132,210	0.03	1.55	41.81	25.09	7.037	OK	1400	0	356.967	85.37	137.9679607	137.9679607	45.37	OK	900
CUBIERTA	M-5	2.819	86,100	0.06	2.82	27.23	16.34	3.228	OK	1400	0	232.47	-57.27	89.84979516	89.84979516	32.29	OK	900
CUBIERTA	M-5	2.434	86,100	0.06	2.43	27.23	16.34	3.228	OK	1400	0	232.47	-14.19	89.84979516	89.84979516	32.29	OK	900
CUBIERTA	M-5	2.820	86,100	0.08	2.82	27.23	16.34	2.386	OK	1400	0	232.47	-57.35	89.84979516	89.84979516	34.07	OK	900
CUBIERTA	M-5	2.434	86,100	0.08	2.43	27.23	16.34	2.386	OK	1400	0	232.47	-14.10	89.84979516	89.84979516	34.07	OK	900
CUBIERTA	M-5	2.819	86,100	0.05	2.82	27.23	16.34	3.766	OK	1400	0	232.47	-57.27	89.84979516	89.84979516	31.57	OK	900
CUBIERTA	M-5	2.434	86,100	0.05	2.43	27.23	16.34	3.766	OK	1400	0	232.47	-14.19	89.84979516	89.84979516	31.57	OK	900
CUBIERTA	M-5	2.819	86,100	0.05	2.82	27.23	16.34	3.766	OK	1400	0	232.47	-57.27	89.84979516	89.84979516	31.57	OK	900
CUBIERTA	M-5	2.434	86,100	0.05	2.43	27.23	16.34	3.766	OK	1400	0	232.47	-14.19	89.84979516	89.84979516	31.57	OK	900
CUBIERTA	M-5	2.820	86,100	0.07	2.82	27.23	16.34	2.767	OK	1400	0	232.47	-57.33	89.84979516	89.84979516	33.13	OK	900
CUBIERTA	M-5	2.434	86,100	0.07	2.43	27.23	16.34	2.767	OK	1400	0	232.47	-14.13	89.84979516	89.84979516	33.13	OK	900
CUBIERTA	M-5	2.820	86,100	0.07	2.82	27.23	16.34	2.767	OK	1400	0	232.47	-57.33	89.84979516	89.84979516	33.13	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-5	2.434	86,100	0.07	2.43	27.23	16.34	2.767	OK	1400	0	232.47	-14.13	89.84979516	89.84979516	33.13	OK	900
CUBIERTA	M-5	2.820	86,100	0.07	2.82	27.23	16.34	2.767	OK	1400	0	232.47	-57.33	89.84979516	89.84979516	33.13	OK	900
CUBIERTA	M-5	2.434	86,100	0.07	2.43	27.23	16.34	2.767	OK	1400	0	232.47	-14.13	89.84979516	89.84979516	33.13	OK	900
CUBIERTA	M-5	4.658	86,100	0.04	4.66	27.23	16.34	4.381	OK	1400	0	232.47	-263.06	89.84979516	89.84979516	30.96	OK	900
CUBIERTA	M-5	2.165	86,100	0.04	2.17	27.23	16.34	4.381	OK	1400	0	232.47	15.96	89.84979516	89.84979516	30.96	OK	900
CUBIERTA	M-5	1.767	86,100	0.08	1.77	27.23	16.34	2.508	OK	1400	0	232.47	41.80	89.84979516	89.84979516	33.74	OK	900
CUBIERTA	M-5	2.588	86,100	0.08	2.59	27.23	16.34	2.508	OK	1400	0	232.47	-31.38	89.84979516	89.84979516	33.74	OK	900
CUBIERTA	M-5	3.975	86,100	0.05	3.98	27.23	16.34	3.894	OK	1400	0	232.47	-186.62	89.84979516	89.84979516	31.42	OK	900
CUBIERTA	M-5	2.344	86,100	0.05	2.34	27.23	16.34	3.894	OK	1400	0	232.47	-4.02	89.84979516	89.84979516	31.42	OK	900
CUBIERTA	M-5	2.018	86,100	0.07	2.02	27.23	16.34	2.701	OK	1400	0	232.47	26.10	89.84979516	89.84979516	33.27	OK	900
CUBIERTA	M-5	2.497	86,100	0.07	2.50	27.23	16.34	2.701	OK	1400	0	232.47	-21.18	89.84979516	89.84979516	33.27	OK	900
CUBIERTA	M-5	2.820	86,100	0.06	2.82	27.23	16.34	3.182	OK	1400	0	232.47	-57.36	89.84979516	89.84979516	32.36	OK	900
CUBIERTA	M-5	2.434	86,100	0.06	2.43	27.23	16.34	3.182	OK	1400	0	232.47	-14.10	89.84979516	89.84979516	32.36	OK	900
CUBIERTA	M-5	2.820	86,100	0.06	2.82	27.23	16.34	3.182	OK	1400	0	232.47	-57.36	89.84979516	89.84979516	32.36	OK	900
CUBIERTA	M-5	2.434	86,100	0.06	2.43	27.23	16.34	3.182	OK	1400	0	232.47	-14.10	89.84979516	89.84979516	32.36	OK	900
CUBIERTA	M-5	6.503	86,100	0.02	6.50	27.23	16.34	8.778	OK	1400	0	232.47	-469.54	89.84979516	89.84979516	29.09	OK	900
CUBIERTA	M-5	1.896	86,100	0.02	1.90	27.23	16.34	8.778	OK	1400	0	232.47	33.76	89.84979516	89.84979516	29.09	OK	900
CUBIERTA	M-5	1.344	86,100	0.05	1.34	27.23	16.34	3.516	OK	1400	0	232.47	68.32	89.84979516	89.84979516	31.87	OK	900
CUBIERTA	M-5	2.650	86,100	0.05	2.65	27.23	16.34	3.516	OK	1400	0	232.47	-38.34	89.84979516	89.84979516	31.87	OK	900
CUBIERTA	M-5	4.902	86,100	0.03	4.90	27.23	16.34	7.019	OK	1400	0	232.47	-290.37	89.84979516	89.84979516	29.55	OK	900
CUBIERTA	M-5	2.271	86,100	0.03	2.27	27.23	16.34	7.019	OK	1400	0	232.47	4.06	89.84979516	89.84979516	29.55	OK	900
CUBIERTA	M-5	1.659	86,100	0.05	1.66	27.23	16.34	3.909	OK	1400	0	232.47	48.55	89.84979516	89.84979516	31.41	OK	900
CUBIERTA	M-5	2.525	86,100	0.05	2.53	27.23	16.34	3.909	OK	1400	0	232.47	-24.35	89.84979516	89.84979516	31.41	OK	900
CUBIERTA	M-5	2.727	86,100	0.07	2.73	27.23	16.34	2.770	OK	1400	0	232.47	-46.97	89.84979516	89.84979516	33.13	OK	900
CUBIERTA	M-5	2.527	86,100	0.07	2.53	27.23	16.34	2.770	OK	1400	0	232.47	-24.53	89.84979516	89.84979516	33.13	OK	900
CUBIERTA	M-5	2.945	86,100	0.05	2.95	27.23	16.34	3.760	OK	1400	0	232.47	-71.34	89.84979516	89.84979516	31.57	OK	900
CUBIERTA	M-5	2.308	86,100	0.05	2.31	27.23	16.34	3.760	OK	1400	0	232.47	-0.06	89.84979516	89.84979516	31.57	OK	900
CUBIERTA	M-5	2.787	86,100	0.07	2.79	27.23	16.34	2.897	OK	1400	0	232.47	-53.67	89.84979516	89.84979516	32.87	OK	900



NIVEL	PIER	CORTANTE																
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.						6b	
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-5	2.467	86,100	0.07	2.47	27.23	16.34	2.897	OK	1400	0	232.47	-17.80	89.84979516	89.84979516	32.87	OK	900
CUBIERTA	M-5	2.859	86,100	0.05	2.86	27.23	16.34	3.548	OK	1400	0	232.47	-61.76	89.84979516	89.84979516	31.83	OK	900
CUBIERTA	M-5	2.394	86,100	0.05	2.39	27.23	16.34	3.548	OK	1400	0	232.47	-9.68	89.84979516	89.84979516	31.83	OK	900
CUBIERTA	M-5	2.684	86,100	0.05	2.68	27.23	16.34	4.053	OK	1400	0	232.47	-42.15	89.84979516	89.84979516	31.26	OK	900
CUBIERTA	M-5	2.570	86,100	0.05	2.57	27.23	16.34	4.053	OK	1400	0	232.47	-29.37	89.84979516	89.84979516	31.26	OK	900
CUBIERTA	M-5	3.039	86,100	0.03	3.04	27.23	16.34	6.597	OK	1400	0	232.47	-81.88	89.84979516	89.84979516	29.70	OK	900
CUBIERTA	M-5	2.214	86,100	0.03	2.21	27.23	16.34	6.597	OK	1400	0	232.47	10.53	89.84979516	89.84979516	29.70	OK	900
CUBIERTA	M-5	2.771	86,100	0.04	2.77	27.23	16.34	4.332	OK	1400	0	232.47	-51.84	89.84979516	89.84979516	31.00	OK	900
CUBIERTA	M-5	2.483	86,100	0.04	2.48	27.23	16.34	4.332	OK	1400	0	232.47	-19.64	89.84979516	89.84979516	31.00	OK	900
CUBIERTA	M-5	2.886	86,100	0.03	2.89	27.23	16.34	5.971	OK	1400	0	232.47	-64.75	89.84979516	89.84979516	29.96	OK	900
CUBIERTA	M-5	2.367	86,100	0.03	2.37	27.23	16.34	5.971	OK	1400	0	232.47	-6.67	89.84979516	89.84979516	29.96	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.03	39.62	19.610	OK	1400	0	466.155	200.39	180.1691885	200.3917438	68.05	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	16.215	OK	1400	0	466.155	140.75	180.1691885	180.1691885	56.62	OK	900
CUBIERTA	M-6	0.839	172,650	0.02	0.84	66.05	39.63	14.280	OK	1400	0	466.155	200.43	180.1691885	200.4298951	68.82	OK	900
CUBIERTA	M-6	1.314	172,650	0.02	1.31	54.60	32.76	11.804	OK	1400	0	466.155	140.71	180.1691885	180.1691885	57.37	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.03	39.62	22.878	OK	1400	0	466.155	200.39	180.1691885	200.3888661	67.76	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	18.918	OK	1400	0	466.155	140.75	180.1691885	180.1691885	56.33	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.03	39.62	22.878	OK	1400	0	466.155	200.39	180.1691885	200.3888661	67.76	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	18.918	OK	1400	0	466.155	140.75	180.1691885	180.1691885	56.33	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.04	39.62	16.622	OK	1400	0	466.155	200.42	180.1691885	200.4160526	68.42	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	13.742	OK	1400	0	466.155	140.71	180.1691885	180.1691885	56.98	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.04	39.62	16.622	OK	1400	0	466.155	200.42	180.1691885	200.4160526	68.42	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	13.742	OK	1400	0	466.155	140.71	180.1691885	180.1691885	56.98	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.04	39.62	16.622	OK	1400	0	466.155	200.42	180.1691885	200.4160526	68.42	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	13.742	OK	1400	0	466.155	140.71	180.1691885	180.1691885	56.98	OK	900
CUBIERTA	M-6	0.565	172,650	0.07	0.57	85.47	51.28	4.273	OK	1400	0	466.155	234.79	180.1691885	234.7883089	97.47	OK	900
CUBIERTA	M-6	1.300	172,650	0.07	1.30	54.60	32.76	2.730	OK	1400	0	466.155	142.47	180.1691885	180.1691885	66.60	OK	900
CUBIERTA	M-6	1.298	172,650	0.05	1.30	54.60	32.76	4.154	OK	1400	0	466.155	142.78	180.1691885	180.1691885	62.48	OK	900



NIVEL	PIER	CORTANTE																
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.						6b	
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-6	1.293	172,650	0.05	1.29	54.60	32.76	4.154	OK	1400	0	466.155	143.37	180.1691885	180.1691885	62.48	OK	900
CUBIERTA	M-6	0.404	172,650	0.04	0.40	96.91	58.15	7.794	OK	1400	0	466.155	255.03	180.1691885	255.0330159	104.37	OK	900
CUBIERTA	M-6	1.286	172,650	0.04	1.29	54.60	32.76	4.391	OK	1400	0	466.155	144.20	180.1691885	180.1691885	62.06	OK	900
CUBIERTA	M-6	1.933	172,650	0.02	1.93	54.60	32.76	9.792	OK	1400	0	466.155	63.07	180.1691885	180.1691885	57.94	OK	900
CUBIERTA	M-6	1.252	172,650	0.02	1.25	54.60	32.76	9.792	OK	1400	0	466.155	148.47	180.1691885	180.1691885	57.94	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.05	39.63	19.040	OK	1400	0	466.155	200.43	180.1691885	200.4309425	68.13	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	15.738	OK	1400	0	466.155	140.71	180.1691885	180.1691885	56.68	OK	900
CUBIERTA	M-6	0.839	172,650	0.01	0.84	66.05	39.63	19.040	OK	1400	0	466.155	200.43	180.1691885	200.4309425	68.13	OK	900
CUBIERTA	M-6	1.314	172,650	0.01	1.31	54.60	32.76	15.738	OK	1400	0	466.155	140.71	180.1691885	180.1691885	56.68	OK	900
CUBIERTA	M-6	0.660	172,650	0.07	0.66	78.74	47.25	4.203	OK	1400	0	466.155	222.89	180.1691885	222.8880803	89.98	OK	900
CUBIERTA	M-6	1.299	172,650	0.07	1.30	54.60	32.76	2.914	OK	1400	0	466.155	142.59	180.1691885	180.1691885	65.84	OK	900
CUBIERTA	M-6	1.110	172,650	0.05	1.11	54.60	32.76	3.790	OK	1400	0	466.155	166.33	180.1691885	180.1691885	63.24	OK	900
CUBIERTA	M-6	1.295	172,650	0.05	1.29	54.60	32.76	3.790	OK	1400	0	466.155	143.14	180.1691885	180.1691885	63.24	OK	900
CUBIERTA	M-6	0.545	172,650	0.04	0.54	86.92	52.15	7.782	OK	1400	0	466.155	237.36	180.1691885	237.3631384	93.63	OK	900
CUBIERTA	M-6	1.283	172,650	0.04	1.28	54.60	32.76	4.888	OK	1400	0	466.155	144.60	180.1691885	180.1691885	61.30	OK	900
CUBIERTA	M-6	1.420	172,650	0.02	1.42	54.60	32.76	7.981	OK	1400	0	466.155	127.42	180.1691885	180.1691885	58.70	OK	900
CUBIERTA	M-6	1.264	172,650	0.02	1.26	54.60	32.76	7.981	OK	1400	0	466.155	147.04	180.1691885	180.1691885	58.70	OK	900
CUBIERTA	M-6	0.847	172,650	0.02	0.85	65.43	39.26	15.024	OK	1400	0	466.155	199.34	180.1691885	199.3358494	68.04	OK	900
CUBIERTA	M-6	1.306	172,650	0.02	1.31	54.60	32.76	12.537	OK	1400	0	466.155	141.80	180.1691885	180.1691885	57.21	OK	900
CUBIERTA	M-6	0.842	172,650	0.04	0.84	65.80	39.48	5.868	OK	1400	0	466.155	199.99	180.1691885	199.9908509	72.53	OK	900
CUBIERTA	M-6	1.311	172,650	0.04	1.31	54.60	32.76	4.869	OK	1400	0	466.155	141.14	180.1691885	180.1691885	61.33	OK	900
CUBIERTA	M-6	0.845	172,650	0.00	0.85	65.57	39.34	53.946	OK	1400	0	466.155	199.59	180.1691885	199.5865557	66.30	OK	900
CUBIERTA	M-6	1.307	172,650	0.00	1.31	54.60	32.76	44.917	OK	1400	0	466.155	141.56	180.1691885	180.1691885	55.33	OK	900
CUBIERTA	M-6	0.837	172,650	0.02	0.84	66.14	39.68	11.719	OK	1400	0	466.155	200.58	180.1691885	200.5833826	69.52	OK	900
CUBIERTA	M-6	1.316	172,650	0.02	1.32	54.60	32.76	9.674	OK	1400	0	466.155	140.55	180.1691885	180.1691885	57.98	OK	900
CUBIERTA	M-6	0.845	172,650	0.02	0.85	65.57	39.34	11.667	OK	1400	0	466.155	199.58	180.1691885	199.5824814	68.94	OK	900
CUBIERTA	M-6	1.308	172,650	0.02	1.31	54.60	32.76	9.715	OK	1400	0	466.155	141.55	180.1691885	180.1691885	57.97	OK	900
CUBIERTA	M-6	0.843	172,650	0.03	0.84	65.77	39.46	6.611	OK	1400	0	466.155	199.93	180.1691885	199.9330431	71.74	OK	900



NIVEL	PIER	CORTANTE																
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.						6b	
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-6	1.310	172,650	0.03	1.31	54.60	32.76	5.488	OK	1400	0	466.155	141.20	180.1691885	180.1691885	60.57	OK	900
CUBIERTA	M-6	0.673	172,650	0.00	0.67	77.78	46.67	1,571.260	OK	1400	0	466.155	221.18	180.1691885	221.181071	77.81	OK	900
CUBIERTA	M-6	1.485	172,650	0.00	1.48	54.60	32.76	1,102.964	OK	1400	0	466.155	119.30	180.1691885	180.1691885	54.63	OK	900
CUBIERTA	M-6	0.837	172,650	0.02	0.84	66.16	39.70	15.110	OK	1400	0	466.155	200.63	180.1691885	200.6272464	68.79	OK	900
CUBIERTA	M-6	1.316	172,650	0.02	1.32	54.60	32.76	12.469	OK	1400	0	466.155	140.51	180.1691885	180.1691885	57.22	OK	900
CUBIERTA	M-7	0.794	411,000	0.01	0.79	164.82	98.89	34.791	OK	1400	0	1109.7	490.55	428.899719	490.5525113	167.66	OK	900
CUBIERTA	M-7	0.003	411,000	0.01	0.00	259.94	155.96	54.870	OK	1400	0	1109.7	726.90	428.899719	1109.7	262.78	OK	900
CUBIERTA	M-7	0.795	411,000	0.01	0.80	164.54	98.73	26.356	OK	1400	0	1109.7	490.07	428.899719	490.0670198	168.29	OK	900
CUBIERTA	M-7	0.002	411,000	0.01	0.00	259.94	155.96	41.637	OK	1400	0	1109.7	727.38	428.899719	1109.7	263.69	OK	900
CUBIERTA	M-7	0.794	411,000	0.01	0.79	164.81	98.89	40.590	OK	1400	0	1109.7	490.55	428.899719	490.5487879	167.25	OK	900
CUBIERTA	M-7	0.003	411,000	0.01	0.00	259.94	155.96	64.017	OK	1400	0	1109.7	726.90	428.899719	1109.7	262.38	OK	900
CUBIERTA	M-7	0.794	411,000	0.01	0.79	164.81	98.89	40.590	OK	1400	0	1109.7	490.55	428.899719	490.5487879	167.25	OK	900
CUBIERTA	M-7	0.003	411,000	0.01	0.00	259.94	155.96	64.017	OK	1400	0	1109.7	726.90	428.899719	1109.7	262.38	OK	900
CUBIERTA	M-7	0.795	411,000	0.01	0.79	164.62	98.77	30.347	OK	1400	0	1109.7	490.21	428.899719	490.2071114	167.88	OK	900
CUBIERTA	M-7	0.002	411,000	0.01	0.00	259.94	155.96	47.918	OK	1400	0	1109.7	727.24	428.899719	1109.7	263.19	OK	900
CUBIERTA	M-7	0.795	411,000	0.01	0.79	164.62	98.77	30.347	OK	1400	0	1109.7	490.21	428.899719	490.2071114	167.88	OK	900
CUBIERTA	M-7	0.002	411,000	0.01	0.00	259.94	155.96	47.918	OK	1400	0	1109.7	727.24	428.899719	1109.7	263.19	OK	900
CUBIERTA	M-7	2.074	411,000	0.01	2.07	129.97	77.98	37.276	OK	1400	0	1109.7	107.78	428.899719	428.899719	132.06	OK	900
CUBIERTA	M-7	1.132	411,000	0.01	1.13	129.97	77.98	37.276	OK	1400	0	1109.7	389.41	428.899719	428.899719	132.06	OK	900
CUBIERTA	M-7	0.023	411,000	0.02	0.02	259.94	155.96	20.039	OK	1400	0	1109.7	720.84	428.899719	1109.7	267.72	OK	900
CUBIERTA	M-7	0.306	411,000	0.02	0.31	247.21	148.33	19.058	OK	1400	0	1109.7	636.33	428.899719	636.329916	255.00	OK	900
CUBIERTA	M-7	0.702	411,000	0.02	0.70	180.33	108.20	15.191	OK	1400	0	1109.7	517.99	428.899719	517.9939188	187.45	OK	900
CUBIERTA	M-7	0.757	411,000	0.02	0.76	171.09	102.65	14.413	OK	1400	0	1109.7	501.65	428.899719	501.6491921	178.21	OK	900
CUBIERTA	M-7	0.037	411,000	0.03	0.04	259.94	155.96	12.172	OK	1400	0	1109.7	716.67	428.899719	1109.7	272.75	OK	900
CUBIERTA	M-7	0.422	411,000	0.03	0.42	227.69	136.61	10.661	OK	1400	0	1109.7	601.78	428.899719	601.7811714	240.50	OK	900
CUBIERTA	M-7	0.795	411,000	0.01	0.80	164.54	98.73	35.142	OK	1400	0	1109.7	490.07	428.899719	490.0712514	167.35	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-7	0.002	411,000	0.01	0.00	259.94	155.96	55.515	OK	1400	0	1109.7	727.38	428.899719	1109.7	262.75	OK	900
CUBIERTA	M-7	0.795	411,000	0.01	0.80	164.54	98.73	35.142	OK	1400	0	1109.7	490.07	428.899719	490.0712514	167.35	OK	900
CUBIERTA	M-7	0.002	411,000	0.01	0.00	259.94	155.96	55.515	OK	1400	0	1109.7	727.38	428.899719	1109.7	262.75	OK	900
CUBIERTA	M-7	1.135	411,000	0.01	1.13	129.97	77.98	25.072	OK	1400	0	1109.7	388.65	428.899719	428.899719	133.08	OK	900
CUBIERTA	M-7	0.762	411,000	0.01	0.76	170.20	102.12	32.834	OK	1400	0	1109.7	500.08	428.899719	500.0843451	173.31	OK	900
CUBIERTA	M-7	0.093	411,000	0.02	0.09	259.94	155.96	23.055	OK	1400	0	1109.7	700.07	428.899719	1109.7	266.70	OK	900
CUBIERTA	M-7	0.352	411,000	0.02	0.35	239.46	143.68	21.239	OK	1400	0	1109.7	622.61	428.899719	622.613305	246.22	OK	900
CUBIERTA	M-7	0.515	411,000	0.02	0.51	211.98	127.19	15.624	OK	1400	0	1109.7	573.99	428.899719	573.9909951	220.12	OK	900
CUBIERTA	M-7	0.662	411,000	0.02	0.66	187.05	112.23	13.787	OK	1400	0	1109.7	529.89	428.899719	529.893425	195.19	OK	900
CUBIERTA	M-7	0.109	411,000	0.03	0.11	259.94	155.96	13.223	OK	1400	0	1109.7	695.17	428.899719	1109.7	271.73	OK	900
CUBIERTA	M-7	0.458	411,000	0.03	0.46	221.55	132.93	11.270	OK	1400	0	1109.7	590.93	428.899719	590.9306796	233.35	OK	900
CUBIERTA	M-7	0.549	411,000	0.01	0.55	206.19	123.71	33.846	OK	1400	0	1109.7	563.75	428.899719	563.7459609	209.84	OK	900
CUBIERTA	M-7	0.248	411,000	0.01	0.25	259.94	155.96	42.670	OK	1400	0	1109.7	653.69	428.899719	1109.7	263.59	OK	900
CUBIERTA	M-7	1.235	411,000	0.00	1.24	129.97	77.98	38.301	OK	1400	0	1109.7	358.60	428.899719	428.899719	132.01	OK	900
CUBIERTA	M-7	0.438	411,000	0.00	0.44	224.87	134.92	66.267	OK	1400	0	1109.7	596.79	428.899719	596.791909	226.90	OK	900
CUBIERTA	M-7	0.423	411,000	0.02	0.42	227.49	136.50	16.761	OK	1400	0	1109.7	601.44	428.899719	601.4445295	235.64	OK	900
CUBIERTA	M-7	0.374	411,000	0.02	0.37	235.71	141.43	17.367	OK	1400	0	1109.7	615.98	428.899719	615.9842221	243.86	OK	900
CUBIERTA	M-7	0.440	411,000	0.01	0.44	224.65	134.79	54.963	OK	1400	0	1109.7	596.41	428.899719	596.4142572	227.10	OK	900
CUBIERTA	M-7	1.237	411,000	0.01	1.24	129.97	77.98	31.798	OK	1400	0	1109.7	358.14	428.899719	428.899719	132.42	OK	900
CUBIERTA	M-7	0.454	411,000	0.01	0.45	222.28	133.37	50.580	OK	1400	0	1109.7	592.22	428.899719	592.2247588	224.92	OK	900
CUBIERTA	M-7	0.343	411,000	0.01	0.34	240.93	144.56	54.823	OK	1400	0	1109.7	625.21	428.899719	625.2094602	243.56	OK	900
CUBIERTA	M-7	1.675	411,000	0.00	1.68	129.97	77.98	76.625	OK	1400	0	1109.7	227.12	428.899719	428.899719	130.99	OK	900
CUBIERTA	M-7	0.878	411,000	0.00	0.88	150.54	90.33	88.755	OK	1400	0	1109.7	465.30	428.899719	465.2991901	151.56	OK	900
CUBIERTA	M-7	0.370	411,000	0.02	0.37	236.50	141.90	19.915	OK	1400	0	1109.7	617.37	428.899719	617.3712889	243.62	OK	900
CUBIERTA	M-7	0.427	411,000	0.02	0.43	226.71	136.03	19.091	OK	1400	0	1109.7	600.05	428.899719	600.0547794	233.83	OK	900
CUBIERTA	M-7	0.077	411,000	0.01	0.08	259.94	155.96	44.937	OK	1400	0	1109.7	704.75	428.899719	1109.7	263.41	OK	900
CUBIERTA	M-7	0.874	411,000	0.01	0.87	151.22	90.73	26.142	OK	1400	0	1109.7	466.49	428.899719	466.4939298	154.69	OK	900
CUBIERTA	M-8	3.106	80,880	0.02	3.11	25.58	15.35	11.857	OK	1400	0	218.376	-83.91	84.40245566	84.40245566	26.87	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-8	2.743	80,880	0.02	2.74	25.58	15.35	11.857	OK	1400	0	218.376	-45.79	84.40245566	84.40245566	26.87	OK	900
CUBIERTA	M-8	3.106	80,880	0.02	3.11	25.58	15.35	8.819	OK	1400	0	218.376	-83.92	84.40245566	84.40245566	27.32	OK	900
CUBIERTA	M-8	2.743	80,880	0.02	2.74	25.58	15.35	8.819	OK	1400	0	218.376	-45.78	84.40245566	84.40245566	27.32	OK	900
CUBIERTA	M-8	3.106	80,880	0.01	3.11	25.58	15.35	13.834	OK	1400	0	218.376	-83.92	84.40245566	84.40245566	26.69	OK	900
CUBIERTA	M-8	2.743	80,880	0.01	2.74	25.58	15.35	13.834	OK	1400	0	218.376	-45.79	84.40245566	84.40245566	26.69	OK	900
CUBIERTA	M-8	3.106	80,880	0.01	3.11	25.58	15.35	13.834	OK	1400	0	218.376	-83.92	84.40245566	84.40245566	26.69	OK	900
CUBIERTA	M-8	2.743	80,880	0.01	2.74	25.58	15.35	13.834	OK	1400	0	218.376	-45.79	84.40245566	84.40245566	26.69	OK	900
CUBIERTA	M-8	3.106	80,880	0.02	3.11	25.58	15.35	10.206	OK	1400	0	218.376	-83.91	84.40245566	84.40245566	27.08	OK	900
CUBIERTA	M-8	2.743	80,880	0.02	2.74	25.58	15.35	10.206	OK	1400	0	218.376	-45.77	84.40245566	84.40245566	27.08	OK	900
CUBIERTA	M-8	3.106	80,880	0.02	3.11	25.58	15.35	10.206	OK	1400	0	218.376	-83.91	84.40245566	84.40245566	27.08	OK	900
CUBIERTA	M-8	2.743	80,880	0.02	2.74	25.58	15.35	10.206	OK	1400	0	218.376	-45.77	84.40245566	84.40245566	27.08	OK	900
CUBIERTA	M-8	3.106	80,880	0.02	3.11	25.58	15.35	10.206	OK	1400	0	218.376	-83.91	84.40245566	84.40245566	27.08	OK	900
CUBIERTA	M-8	2.743	80,880	0.02	2.74	25.58	15.35	10.206	OK	1400	0	218.376	-45.77	84.40245566	84.40245566	27.08	OK	900
CUBIERTA	M-8	21.587	80,880	0.00	21.59	25.58	15.35	47.777	OK	1400	0	218.376	-2027.11	84.40245566	84.40245566	25.90	OK	900
CUBIERTA	M-8	2.161	80,880	0.00	2.16	25.58	15.35	47.777	OK	1400	0	218.376	15.47	84.40245566	84.40245566	25.90	OK	900
CUBIERTA	M-8	0.515	80,880	0.03	0.52	41.69	25.01	10.914	OK	1400	0	218.376	112.90	84.40245566	112.9049291	43.98	OK	900
CUBIERTA	M-8	2.825	80,880	0.03	2.82	25.58	15.35	6.696	OK	1400	0	218.376	-54.36	84.40245566	84.40245566	27.87	OK	900
CUBIERTA	M-8	17.918	80,880	0.00	17.92	25.58	15.35	42.854	OK	1400	0	218.376	-1641.32	84.40245566	84.40245566	25.93	OK	900
CUBIERTA	M-8	1.094	80,880	0.00	1.09	25.58	15.35	42.854	OK	1400	0	218.376	78.88	84.40245566	84.40245566	25.93	OK	900
CUBIERTA	M-8	0.753	80,880	0.03	0.75	33.78	20.27	8.987	OK	1400	0	218.376	98.91	84.40245566	98.90825071	36.03	OK	900
CUBIERTA	M-8	3.005	80,880	0.03	3.00	25.58	15.35	6.806	OK	1400	0	218.376	-73.30	84.40245566	84.40245566	27.83	OK	900
CUBIERTA	M-8	3.106	80,880	0.02	3.11	25.58	15.35	11.758	OK	1400	0	218.376	-83.92	84.40245566	84.40245566	26.88	OK	900
CUBIERTA	M-8	2.743	80,880	0.02	2.74	25.58	15.35	11.758	OK	1400	0	218.376	-45.76	84.40245566	84.40245566	26.88	OK	900
CUBIERTA	M-8	3.106	80,880	0.02	3.11	25.58	15.35	11.758	OK	1400	0	218.376	-83.92	84.40245566	84.40245566	26.88	OK	900
CUBIERTA	M-8	2.743	80,880	0.02	2.74	25.58	15.35	11.758	OK	1400	0	218.376	-45.76	84.40245566	84.40245566	26.88	OK	900
CUBIERTA	M-8	35.641	80,880	0.00	35.64	25.58	15.35	100.169	OK	1400	0	218.376	-3504.79	84.40245566	84.40245566	25.73	OK	900
CUBIERTA	M-8	3.964	80,880	0.00	3.96	25.58	15.35	100.169	OK	1400	0	218.376	-174.20	84.40245566	84.40245566	25.73	OK	900
CUBIERTA	M-8	0.161	80,880	0.02	0.16	51.15	30.69	16.890	OK	1400	0	218.376	133.77	84.40245566	218.376	52.97	OK	900



NIVEL	PIER	CORTANTE																
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.						6b	
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-8	2.846	80,880	0.02	2.85	25.58	15.35	8.445	OK	1400	0	218.376	-56.61	84.40245566	84.40245566	27.39	OK	900
CUBIERTA	M-8	42.463	80,880	0.00	42.46	25.58	15.35	131.838	OK	1400	0	218.376	-4222.04	84.40245566	84.40245566	25.69	OK	900
CUBIERTA	M-8	7.815	80,880	0.00	7.81	25.58	15.35	131.838	OK	1400	0	218.376	-579.02	84.40245566	84.40245566	25.69	OK	900
CUBIERTA	M-8	0.126	80,880	0.02	0.13	51.15	30.69	17.239	OK	1400	0	218.376	135.79	84.40245566	218.376	52.93	OK	900
CUBIERTA	M-8	3.075	80,880	0.02	3.07	25.58	15.35	8.619	OK	1400	0	218.376	-80.64	84.40245566	84.40245566	27.36	OK	900
CUBIERTA	M-8	3.004	80,880	0.01	3.00	25.58	15.35	15.331	OK	1400	0	218.376	-73.23	84.40245566	84.40245566	26.58	OK	900
CUBIERTA	M-8	2.845	80,880	0.01	2.85	25.58	15.35	15.331	OK	1400	0	218.376	-56.50	84.40245566	84.40245566	26.58	OK	900
CUBIERTA	M-8	3.169	80,880	0.02	3.17	25.58	15.35	9.520	OK	1400	0	218.376	-90.55	84.40245566	84.40245566	27.19	OK	900
CUBIERTA	M-8	2.680	80,880	0.02	2.68	25.58	15.35	9.520	OK	1400	0	218.376	-39.12	84.40245566	84.40245566	27.19	OK	900
CUBIERTA	M-8	2.887	80,880	0.02	2.89	25.58	15.35	9.686	OK	1400	0	218.376	-60.87	84.40245566	84.40245566	27.16	OK	900
CUBIERTA	M-8	2.963	80,880	0.02	2.96	25.58	15.35	9.686	OK	1400	0	218.376	-68.88	84.40245566	84.40245566	27.16	OK	900
CUBIERTA	M-8	3.444	80,880	0.01	3.44	25.58	15.35	14.919	OK	1400	0	218.376	-119.43	84.40245566	84.40245566	26.61	OK	900
CUBIERTA	M-8	2.405	80,880	0.01	2.40	25.58	15.35	14.919	OK	1400	0	218.376	-10.19	84.40245566	84.40245566	26.61	OK	900
CUBIERTA	M-8	2.912	80,880	0.01	2.91	25.58	15.35	29.141	OK	1400	0	218.376	-63.56	84.40245566	84.40245566	26.10	OK	900
CUBIERTA	M-8	2.937	80,880	0.01	2.94	25.58	15.35	29.141	OK	1400	0	218.376	-66.13	84.40245566	84.40245566	26.10	OK	900
CUBIERTA	M-8	3.195	80,880	0.01	3.20	25.58	15.35	13.492	OK	1400	0	218.376	-93.33	84.40245566	84.40245566	26.71	OK	900
CUBIERTA	M-8	2.654	80,880	0.01	2.65	25.58	15.35	13.492	OK	1400	0	218.376	-36.36	84.40245566	84.40245566	26.71	OK	900
CUBIERTA	M-8	2.793	80,880	0.01	2.79	25.58	15.35	13.828	OK	1400	0	218.376	-51.00	84.40245566	84.40245566	26.69	OK	900
CUBIERTA	M-8	3.057	80,880	0.01	3.06	25.58	15.35	13.828	OK	1400	0	218.376	-78.77	84.40245566	84.40245566	26.69	OK	900
CUBIERTA	M-8	3.732	80,880	0.01	3.73	25.58	15.35	27.690	OK	1400	0	218.376	-149.76	84.40245566	84.40245566	26.13	OK	900
CUBIERTA	M-8	2.115	80,880	0.01	2.11	25.58	15.35	27.690	OK	1400	0	218.376	18.82	84.40245566	84.40245566	26.13	OK	900
CUBIERTA	M-9	0.913	315,750	0.01	0.91	111.19	66.71	18.173	OK	1400	0	852.525	349.57	329.5014265	349.5650304	114.86	OK	900
CUBIERTA	M-9	0.142	315,750	0.01	0.14	199.70	119.82	32.638	OK	1400	0	852.525	526.60	329.5014265	852.525	203.37	OK	900
CUBIERTA	M-9	0.912	315,750	0.02	0.91	111.33	66.80	13.735	OK	1400	0	852.525	349.81	329.5014265	349.8142371	116.19	OK	900
CUBIERTA	M-9	0.143	315,750	0.02	0.14	199.70	119.82	24.637	OK	1400	0	852.525	526.35	329.5014265	852.525	204.56	OK	900
CUBIERTA	M-9	0.913	315,750	0.01	0.91	111.19	66.71	21.201	OK	1400	0	852.525	349.57	329.5014265	349.5664665	114.34	OK	900
CUBIERTA	M-9	0.142	315,750	0.01	0.14	199.70	119.82	38.078	OK	1400	0	852.525	526.60	329.5014265	852.525	202.84	OK	900
CUBIERTA	M-9	0.913	315,750	0.01	0.91	111.19	66.71	21.201	OK	1400	0	852.525	349.57	329.5014265	349.5664665	114.34	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-9	0.142	315,750	0.01	0.14	199.70	119.82	38.078	OK	1400	0	852.525	526.60	329.5014265	852.525	202.84	OK	900
CUBIERTA	M-9	0.912	315,750	0.01	0.91	111.29	66.77	15.825	OK	1400	0	852.525	349.74	329.5014265	349.7447073	115.51	OK	900
CUBIERTA	M-9	0.143	315,750	0.01	0.14	199.70	119.82	28.396	OK	1400	0	852.525	526.42	329.5014265	852.525	203.92	OK	900
CUBIERTA	M-9	0.912	315,750	0.01	0.91	111.29	66.77	15.825	OK	1400	0	852.525	349.74	329.5014265	349.7447073	115.51	OK	900
CUBIERTA	M-9	0.143	315,750	0.01	0.14	199.70	119.82	28.396	OK	1400	0	852.525	526.42	329.5014265	852.525	203.92	OK	900
CUBIERTA	M-9	0.912	315,750	0.01	0.91	111.29	66.77	15.825	OK	1400	0	852.525	349.74	329.5014265	349.7447073	115.51	OK	900
CUBIERTA	M-9	0.143	315,750	0.01	0.14	199.70	119.82	28.396	OK	1400	0	852.525	526.42	329.5014265	852.525	203.92	OK	900
CUBIERTA	M-9	0.022	315,750	0.03	0.02	199.70	119.82	12.669	OK	1400	0	852.525	554.09	329.5014265	852.525	209.16	OK	900
CUBIERTA	M-9	0.389	315,750	0.03	0.39	179.12	107.47	11.363	OK	1400	0	852.525	469.74	329.5014265	469.7436557	188.57	OK	900
CUBIERTA	M-9	3.113	315,750	0.01	3.11	99.85	59.91	28.648	OK	1400	0	852.525	-330.75	329.5014265	329.5014265	101.94	OK	900
CUBIERTA	M-9	1.260	315,750	0.01	1.26	99.85	59.91	28.648	OK	1400	0	852.525	269.84	329.5014265	329.5014265	101.94	OK	900
CUBIERTA	M-9	0.018	315,750	0.04	0.02	199.70	119.82	8.809	OK	1400	0	852.525	555.00	329.5014265	852.525	213.30	OK	900
CUBIERTA	M-9	0.550	315,750	0.04	0.55	158.27	94.96	6.982	OK	1400	0	852.525	432.86	329.5014265	432.8604399	171.87	OK	900
CUBIERTA	M-9	1.117	315,750	0.02	1.12	99.85	59.91	9.609	OK	1400	0	852.525	302.59	329.5014265	329.5014265	106.08	OK	900
CUBIERTA	M-9	1.032	315,750	0.02	1.03	99.85	59.91	9.609	OK	1400	0	852.525	322.23	329.5014265	329.5014265	106.08	OK	900
CUBIERTA	M-9	0.912	315,750	0.01	0.91	111.33	66.80	18.313	OK	1400	0	852.525	349.82	329.5014265	349.8187128	114.98	OK	900
CUBIERTA	M-9	0.143	315,750	0.01	0.14	199.70	119.82	32.849	OK	1400	0	852.525	526.35	329.5014265	852.525	203.35	OK	900
CUBIERTA	M-9	0.912	315,750	0.01	0.91	111.33	66.80	18.313	OK	1400	0	852.525	349.82	329.5014265	349.8187128	114.98	OK	900
CUBIERTA	M-9	0.143	315,750	0.01	0.14	199.70	119.82	32.849	OK	1400	0	852.525	526.35	329.5014265	852.525	203.35	OK	900
CUBIERTA	M-9	0.123	315,750	0.03	0.12	199.70	119.82	14.730	OK	1400	0	852.525	531.00	329.5014265	852.525	207.83	OK	900
CUBIERTA	M-9	0.429	315,750	0.03	0.43	173.92	104.35	12.828	OK	1400	0	852.525	460.54	329.5014265	460.5436393	182.05	OK	900
CUBIERTA	M-9	1.554	315,750	0.01	1.55	99.85	59.91	17.546	OK	1400	0	852.525	202.34	329.5014265	329.5014265	103.26	OK	900
CUBIERTA	M-9	0.827	315,750	0.01	0.83	122.30	73.38	21.492	OK	1400	0	852.525	369.23	329.5014265	369.2313992	125.72	OK	900
CUBIERTA	M-9	0.118	315,750	0.04	0.12	199.70	119.82	9.759	OK	1400	0	852.525	532.00	329.5014265	852.525	211.98	OK	900
CUBIERTA	M-9	0.594	315,750	0.04	0.59	152.58	91.55	7.456	OK	1400	0	852.525	422.79	329.5014265	422.7900206	164.86	OK	900
CUBIERTA	M-9	0.762	315,750	0.02	0.76	130.74	78.44	10.379	OK	1400	0	852.525	384.15	329.5014265	384.1518637	138.30	OK	900
CUBIERTA	M-9	0.876	315,750	0.02	0.88	115.94	69.56	9.204	OK	1400	0	852.525	357.96	329.5014265	357.9615484	123.49	OK	900
CUBIERTA	M-9	1.788	315,750	0.00	1.79	99.85	59.91	57.073	OK	1400	0	852.525	148.65	329.5014265	329.5014265	100.90	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-9	0.733	315,750	0.00	0.73	134.46	80.68	76.857	OK	1400	0	852.525	390.74	329.5014265	390.7386131	135.51	OK	900
CUBIERTA	M-9	0.767	315,750	0.02	0.77	130.13	78.08	12.361	OK	1400	0	852.525	383.07	329.5014265	383.0748485	136.45	OK	900
CUBIERTA	M-9	0.288	315,750	0.02	0.29	192.31	115.38	18.267	OK	1400	0	852.525	493.08	329.5014265	493.0794502	198.62	OK	900
CUBIERTA	M-9	0.621	315,750	0.01	0.62	149.02	89.41	43.767	OK	1400	0	852.525	416.50	329.5014265	416.4978299	151.06	OK	900
CUBIERTA	M-9	1.676	315,750	0.01	1.68	99.85	59.91	29.326	OK	1400	0	852.525	174.29	329.5014265	329.5014265	101.89	OK	900
CUBIERTA	M-9	0.579	315,750	0.03	0.58	154.46	92.68	9.850	OK	1400	0	852.525	426.12	329.5014265	426.1245697	163.87	OK	900
CUBIERTA	M-9	0.475	315,750	0.03	0.48	167.97	100.78	10.711	OK	1400	0	852.525	450.02	329.5014265	450.0245611	177.38	OK	900
CUBIERTA	M-9	2.451	315,750	0.00	2.45	99.85	59.91	219.047	OK	1400	0	852.525	-58.96	329.5014265	329.5014265	100.12	OK	900
CUBIERTA	M-9	3.506	315,750	0.00	3.51	99.85	59.91	219.047	OK	1400	0	852.525	-492.06	329.5014265	329.5014265	100.12	OK	900
CUBIERTA	M-9	0.728	315,750	0.02	0.73	135.11	81.06	16.234	OK	1400	0	852.525	391.88	329.5014265	391.8791195	140.10	OK	900
CUBIERTA	M-9	0.326	315,750	0.02	0.33	187.33	112.40	22.509	OK	1400	0	852.525	484.28	329.5014265	484.2758006	192.32	OK	900
CUBIERTA	M-9	0.019	315,750	0.01	0.02	199.70	119.82	35.597	OK	1400	0	852.525	554.85	329.5014265	852.525	203.06	OK	900
CUBIERTA	M-9	1.073	315,750	0.01	1.07	99.85	59.91	17.798	OK	1400	0	852.525	312.66	329.5014265	329.5014265	103.21	OK	900
CUBIERTA	M-9	0.525	315,750	0.03	0.52	161.52	96.91	11.985	OK	1400	0	852.525	438.60	329.5014265	438.604153	169.60	OK	900
CUBIERTA	M-9	0.530	315,750	0.03	0.53	160.92	96.55	11.940	OK	1400	0	852.525	437.54	329.5014265	437.5415212	169.00	OK	900
CUBIERTA	M-10	2.589	177,000	0.00	2.59	55.97	33.58	78.174	OK	1400	0	477.9	-64.72	184.7086381	184.7086381	56.40	OK	900
CUBIERTA	M-10	0.509	177,000	0.00	0.51	91.74	55.04	128.122	OK	1400	0	477.9	247.98	184.7086381	247.98111	92.16	OK	900
CUBIERTA	M-10	3.034	177,000	0.00	3.03	55.97	33.58	98.891	OK	1400	0	477.9	-167.03	184.7086381	184.7086381	56.31	OK	900
CUBIERTA	M-10	0.954	177,000	0.00	0.95	59.35	35.61	104.863	OK	1400	0	477.9	190.69	184.7086381	190.6884694	59.69	OK	900
CUBIERTA	M-10	2.589	177,000	0.00	2.59	55.97	33.58	91.210	OK	1400	0	477.9	-64.78	184.7086381	184.7086381	56.34	OK	900
CUBIERTA	M-10	0.509	177,000	0.00	0.51	91.73	55.04	149.482	OK	1400	0	477.9	247.98	184.7086381	247.9760302	92.10	OK	900
CUBIERTA	M-10	2.589	177,000	0.00	2.59	55.97	33.58	91.210	OK	1400	0	477.9	-64.78	184.7086381	184.7086381	56.34	OK	900
CUBIERTA	M-10	0.509	177,000	0.00	0.51	91.73	55.04	149.482	OK	1400	0	477.9	247.98	184.7086381	247.9760302	92.10	OK	900
CUBIERTA	M-10	2.859	177,000	0.00	2.86	55.97	33.58	95.870	OK	1400	0	477.9	-126.79	184.7086381	184.7086381	56.32	OK	900
CUBIERTA	M-10	0.778	177,000	0.00	0.78	72.11	43.27	123.509	OK	1400	0	477.9	213.26	184.7086381	213.2572134	72.46	OK	900
CUBIERTA	M-10	2.859	177,000	0.00	2.86	55.97	33.58	95.870	OK	1400	0	477.9	-126.79	184.7086381	184.7086381	56.32	OK	900
CUBIERTA	M-10	0.778	177,000	0.00	0.78	72.11	43.27	123.509	OK	1400	0	477.9	213.26	184.7086381	213.2572134	72.46	OK	900
CUBIERTA	M-10	2.859	177,000	0.00	2.86	55.97	33.58	95.870	OK	1400	0	477.9	-126.79	184.7086381	184.7086381	56.32	OK	900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-10	0.778	177,000	0.00	0.78	72.11	43.27	123.509	OK	1400	0	477.9	213.26	184.7086381	213.2572134	72.46	OK	900
CUBIERTA	M-10	1.403	177,000	0.03	1.40	55.97	33.58	5.855	OK	1400	0	477.9	132.81	184.7086381	184.7086381	61.71	OK	900
CUBIERTA	M-10	1.153	177,000	0.03	1.15	55.97	33.58	5.855	OK	1400	0	477.9	165.06	184.7086381	184.7086381	61.71	OK	900
CUBIERTA	M-10	0.944	177,000	0.04	0.94	60.05	36.03	5.582	OK	1400	0	477.9	191.92	184.7086381	191.9151624	66.50	OK	900
CUBIERTA	M-10	0.953	177,000	0.04	0.95	59.39	35.63	5.521	OK	1400	0	477.9	190.76	184.7086381	190.7558233	65.84	OK	900
CUBIERTA	M-10	0.780	177,000	0.05	0.78	71.97	43.18	4.509	OK	1400	0	477.9	213.01	184.7086381	213.0115653	81.55	OK	900
CUBIERTA	M-10	1.542	177,000	0.05	1.54	55.97	33.58	3.506	OK	1400	0	477.9	114.90	184.7086381	184.7086381	65.55	OK	900
CUBIERTA	M-10	0.536	177,000	0.06	0.54	89.75	53.85	5.230	OK	1400	0	477.9	244.46	184.7086381	244.4620724	100.04	OK	900
CUBIERTA	M-10	1.390	177,000	0.06	1.39	55.97	33.58	3.262	OK	1400	0	477.9	134.51	184.7086381	184.7086381	66.27	OK	900
CUBIERTA	M-10	3.034	177,000	0.00	3.03	55.97	33.58	131.855	OK	1400	0	477.9	-167.06	184.7086381	184.7086381	56.23	OK	900
CUBIERTA	M-10	0.954	177,000	0.00	0.95	59.35	35.61	139.805	OK	1400	0	477.9	190.68	184.7086381	190.6799888	59.60	OK	900
CUBIERTA	M-10	3.034	177,000	0.00	3.03	55.97	33.58	131.855	OK	1400	0	477.9	-167.06	184.7086381	184.7086381	56.23	OK	900
CUBIERTA	M-10	0.954	177,000	0.00	0.95	59.35	35.61	139.805	OK	1400	0	477.9	190.68	184.7086381	190.6799888	59.60	OK	900
CUBIERTA	M-10	1.338	177,000	0.03	1.34	55.97	33.58	5.772	OK	1400	0	477.9	141.20	184.7086381	184.7086381	61.79	OK	900
CUBIERTA	M-10	1.121	177,000	0.03	1.12	55.97	33.58	5.772	OK	1400	0	477.9	169.16	184.7086381	184.7086381	61.79	OK	900
CUBIERTA	M-10	0.998	177,000	0.04	1.00	56.15	33.69	5.288	OK	1400	0	477.9	185.03	184.7086381	185.0285907	62.52	OK	900
CUBIERTA	M-10	0.980	177,000	0.04	0.98	57.46	34.48	5.412	OK	1400	0	477.9	187.35	184.7086381	187.3476773	63.83	OK	900
CUBIERTA	M-10	0.746	177,000	0.05	0.75	74.43	44.66	4.623	OK	1400	0	477.9	217.37	184.7086381	217.3714833	84.09	OK	900
CUBIERTA	M-10	1.520	177,000	0.05	1.52	55.97	33.58	3.476	OK	1400	0	477.9	117.80	184.7086381	184.7086381	65.63	OK	900
CUBIERTA	M-10	0.566	177,000	0.06	0.57	87.56	52.54	5.144	OK	1400	0	477.9	240.59	184.7086381	240.5938714	97.77	OK	900
CUBIERTA	M-10	1.410	177,000	0.06	1.41	55.97	33.58	3.288	OK	1400	0	477.9	131.92	184.7086381	184.7086381	66.19	OK	900
CUBIERTA	M-10	1.374	177,000	0.02	1.37	55.97	33.58	10.559	OK	1400	0	477.9	136.61	184.7086381	184.7086381	59.15	OK	900
CUBIERTA	M-10	0.707	177,000	0.02	0.71	77.30	46.38	14.582	OK	1400	0	477.9	222.44	184.7086381	222.4376022	80.48	OK	900
CUBIERTA	M-10	0.981	177,000	0.01	0.98	57.38	34.43	13.984	OK	1400	0	477.9	187.20	184.7086381	187.2030847	59.84	OK	900
CUBIERTA	M-10	1.100	177,000	0.01	1.10	55.97	33.58	13.641	OK	1400	0	477.9	171.83	184.7086381	184.7086381	58.43	OK	900
CUBIERTA	M-10	0.716	177,000	0.03	0.72	76.64	45.99	8.416	OK	1400	0	477.9	221.28	184.7086381	221.2810404	82.11	OK	900
CUBIERTA	M-10	1.365	177,000	0.03	1.36	55.97	33.58	6.146	OK	1400	0	477.9	137.75	184.7086381	184.7086381	61.44	OK	900
CUBIERTA	M-10	0.412	177,000	0.03	0.41	98.73	59.24	12.483	OK	1400	0	477.9	260.35	184.7086381	260.3529076	103.47	OK	900



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NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-10	1.668	177,000	0.03	1.67	55.97	33.58	7.077	OK	1400	0	477.9	98.67	184.7086381	184.7086381	60.72	OK	900
CUBIERTA	M-10	1.326	177,000	0.02	1.33	55.97	33.58	10.842	OK	1400	0	477.9	142.77	184.7086381	184.7086381	59.07	OK	900
CUBIERTA	M-10	0.755	177,000	0.02	0.75	73.82	44.29	14.298	OK	1400	0	477.9	216.28	184.7086381	216.277841	76.91	OK	900
CUBIERTA	M-10	1.052	177,000	0.01	1.05	55.97	33.58	13.195	OK	1400	0	477.9	178.05	184.7086381	184.7086381	58.52	OK	900
CUBIERTA	M-10	1.029	177,000	0.01	1.03	55.97	33.58	13.195	OK	1400	0	477.9	180.98	184.7086381	184.7086381	58.52	OK	900
CUBIERTA	M-10	0.678	177,000	0.03	0.68	79.39	47.63	8.852	OK	1400	0	477.9	226.13	184.7086381	226.1343221	84.77	OK	900
CUBIERTA	M-10	1.402	177,000	0.03	1.40	55.97	33.58	6.241	OK	1400	0	477.9	132.90	184.7086381	184.7086381	61.35	OK	900
CUBIERTA	M-10	0.460	177,000	0.03	0.46	95.29	57.17	11.841	OK	1400	0	477.9	254.27	184.7086381	254.2719518	100.12	OK	900
CUBIERTA	M-10	1.621	177,000	0.03	1.62	55.97	33.58	6.955	OK	1400	0	477.9	104.75	184.7086381	184.7086381	60.80	OK	900
CUBIERTA	M-11	118.644	86,100	0.00	118.64	27.23	16.34	12,566.405	OK	1400	0	232.47	-13021.53	89.84979516	89.84979516	27.23	OK	900
CUBIERTA	M-11	123.990	86,100	0.00	123.99	27.23	16.34	12,566.405	OK	1400	0	232.47	-13619.85	89.84979516	89.84979516	27.23	OK	900
CUBIERTA	M-11	12.050	86,100	0.00	12.05	27.23	16.34	1,192.433	OK	1400	0	232.47	-1090.45	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	17.308	86,100	0.00	17.31	27.23	16.34	1,192.433	OK	1400	0	232.47	-1678.98	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	120.185	86,100	0.00	120.18	27.23	16.34	14,851.206	OK	1400	0	232.47	-13194.00	89.84979516	89.84979516	27.23	OK	900
CUBIERTA	M-11	125.578	86,100	0.00	125.58	27.23	16.34	14,851.206	OK	1400	0	232.47	-13797.62	89.84979516	89.84979516	27.23	OK	900
CUBIERTA	M-11	120.185	86,100	0.00	120.18	27.23	16.34	14,851.206	OK	1400	0	232.47	-13194.00	89.84979516	89.84979516	27.23	OK	900
CUBIERTA	M-11	125.578	86,100	0.00	125.58	27.23	16.34	14,851.206	OK	1400	0	232.47	-13797.62	89.84979516	89.84979516	27.23	OK	900
CUBIERTA	M-11	16.968	86,100	0.00	16.97	27.23	16.34	1,815.147	OK	1400	0	232.47	-1640.93	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	22.222	86,100	0.00	22.22	27.23	16.34	1,815.147	OK	1400	0	232.47	-2229.03	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	16.968	86,100	0.00	16.97	27.23	16.34	1,815.147	OK	1400	0	232.47	-1640.93	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	22.222	86,100	0.00	22.22	27.23	16.34	1,815.147	OK	1400	0	232.47	-2229.03	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	16.968	86,100	0.00	16.97	27.23	16.34	1,815.147	OK	1400	0	232.47	-1640.93	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	22.222	86,100	0.00	22.22	27.23	16.34	1,815.147	OK	1400	0	232.47	-2229.03	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	2.284	86,100	0.03	2.28	27.23	16.34	6.763	OK	1400	0	232.47	2.70	89.84979516	89.84979516	29.64	OK	900
CUBIERTA	M-11	3.095	86,100	0.03	3.10	27.23	16.34	6.763	OK	1400	0	232.47	-88.15	89.84979516	89.84979516	29.64	OK	900
CUBIERTA	M-11	2.175	86,100	0.03	2.17	27.23	16.34	6.791	OK	1400	0	232.47	14.88	89.84979516	89.84979516	29.63	OK	900
CUBIERTA	M-11	2.968	86,100	0.03	2.97	27.23	16.34	6.791	OK	1400	0	232.47	-73.87	89.84979516	89.84979516	29.63	OK	900
CUBIERTA	M-11	2.175	86,100	0.06	2.18	27.23	16.34	3.087	OK	1400	0	232.47	14.81	89.84979516	89.84979516	32.52	OK	900



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NIVEL	PIER	CORTANTE																
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.						6b	
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-11	3.135	86,100	0.06	3.13	27.23	16.34	3.087	OK	1400	0	232.47	-92.59	89.84979516	89.84979516	32.52	OK	900
CUBIERTA	M-11	2.126	86,100	0.06	2.13	27.23	16.34	3.093	OK	1400	0	232.47	19.36	89.84979516	89.84979516	32.51	OK	900
CUBIERTA	M-11	3.077	86,100	0.06	3.08	27.23	16.34	3.093	OK	1400	0	232.47	-86.10	89.84979516	89.84979516	32.51	OK	900
CUBIERTA	M-11	12.013	86,100	0.00	12.01	27.23	16.34	1,586.051	OK	1400	0	232.47	-1086.26	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	17.262	86,100	0.00	17.26	27.23	16.34	1,586.051	OK	1400	0	232.47	-1673.81	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	12.013	86,100	0.00	12.01	27.23	16.34	1,586.051	OK	1400	0	232.47	-1086.26	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	17.262	86,100	0.00	17.26	27.23	16.34	1,586.051	OK	1400	0	232.47	-1673.81	89.84979516	89.84979516	27.24	OK	900
CUBIERTA	M-11	2.270	86,100	0.03	2.27	27.23	16.34	6.774	OK	1400	0	232.47	4.26	89.84979516	89.84979516	29.64	OK	900
CUBIERTA	M-11	3.073	86,100	0.03	3.07	27.23	16.34	6.774	OK	1400	0	232.47	-85.71	89.84979516	89.84979516	29.64	OK	900
CUBIERTA	M-11	2.189	86,100	0.03	2.19	27.23	16.34	6.779	OK	1400	0	232.47	13.29	89.84979516	89.84979516	29.64	OK	900
CUBIERTA	M-11	2.990	86,100	0.03	2.99	27.23	16.34	6.779	OK	1400	0	232.47	-76.33	89.84979516	89.84979516	29.64	OK	900
CUBIERTA	M-11	2.169	86,100	0.06	2.17	27.23	16.34	3.089	OK	1400	0	232.47	15.53	89.84979516	89.84979516	32.52	OK	900
CUBIERTA	M-11	3.125	86,100	0.06	3.12	27.23	16.34	3.089	OK	1400	0	232.47	-91.48	89.84979516	89.84979516	32.52	OK	900
CUBIERTA	M-11	2.132	86,100	0.06	2.13	27.23	16.34	3.090	OK	1400	0	232.47	18.96	89.84979516	89.84979516	32.51	OK	900
CUBIERTA	M-11	3.087	86,100	0.06	3.09	27.23	16.34	3.090	OK	1400	0	232.47	-87.21	89.84979516	89.84979516	32.51	OK	900
CUBIERTA	M-11	2.403	86,100	0.01	2.40	27.23	16.34	18.306	OK	1400	0	232.47	-10.64	89.84979516	89.84979516	28.12	OK	900
CUBIERTA	M-11	2.852	86,100	0.01	2.85	27.23	16.34	18.306	OK	1400	0	232.47	-60.90	89.84979516	89.84979516	28.12	OK	900
CUBIERTA	M-11	2.060	86,100	0.01	2.06	27.23	16.34	18.101	OK	1400	0	232.47	23.46	89.84979516	89.84979516	28.13	OK	900
CUBIERTA	M-11	3.195	86,100	0.01	3.19	27.23	16.34	18.101	OK	1400	0	232.47	-99.26	89.84979516	89.84979516	28.13	OK	900
CUBIERTA	M-11	2.169	86,100	0.03	2.17	27.23	16.34	6.021	OK	1400	0	232.47	15.48	89.84979516	89.84979516	29.94	OK	900
CUBIERTA	M-11	3.085	86,100	0.03	3.09	27.23	16.34	6.021	OK	1400	0	232.47	-87.05	89.84979516	89.84979516	29.94	OK	900
CUBIERTA	M-11	2.057	86,100	0.03	2.06	27.23	16.34	5.998	OK	1400	0	232.47	23.67	89.84979516	89.84979516	29.95	OK	900
CUBIERTA	M-11	3.198	86,100	0.03	3.20	27.23	16.34	5.998	OK	1400	0	232.47	-99.67	89.84979516	89.84979516	29.95	OK	900
CUBIERTA	M-11	2.343	86,100	0.01	2.34	27.23	16.34	18.220	OK	1400	0	232.47	-3.97	89.84979516	89.84979516	28.12	OK	900
CUBIERTA	M-11	2.912	86,100	0.01	2.91	27.23	16.34	18.220	OK	1400	0	232.47	-67.59	89.84979516	89.84979516	28.12	OK	900
CUBIERTA	M-11	2.118	86,100	0.01	2.12	27.23	16.34	18.186	OK	1400	0	232.47	19.84	89.84979516	89.84979516	28.13	OK	900
CUBIERTA	M-11	3.137	86,100	0.01	3.14	27.23	16.34	18.186	OK	1400	0	232.47	-92.78	89.84979516	89.84979516	28.13	OK	900
CUBIERTA	M-11	2.150	86,100	0.03	2.15	27.23	16.34	6.011	OK	1400	0	232.47	17.64	89.84979516	89.84979516	29.94	OK	900



NIVEL	PIER	CORTANTE															
		M/Vd	Avm(mm ²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.						6b
										S(mm)	Av(cm ²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn	
CUBIERTA	M-11	3.105	86,100	0.03	3.10	27.23	16.34	6.011	OK	1400	0	232.47	-89.21	89.84979516	89.84979516	29.94	OK 900
CUBIERTA	M-11	2.076	86,100	0.03	2.08	27.23	16.34	6.008	OK	1400	0	232.47	22.48	89.84979516	89.84979516	29.95	OK 900
CUBIERTA	M-11	3.179	86,100	0.03	3.18	27.23	16.34	6.008	OK	1400	0	232.47	-97.52	89.84979516	89.84979516	29.95	OK 900
CUBIERTA	M-12	0.844	296,610	0.00	0.84	112.84	67.70	73.720	OK	1400	0	800.847	343.22	309.5278483	343.2210461	113.76	OK 900
CUBIERTA	M-12	0.296	296,610	0.00	0.30	179.64	107.79	117.364	OK	1400	0	800.847	461.41	309.5278483	461.4133998	180.56	OK 900
CUBIERTA	M-12	0.793	296,610	0.00	0.79	119.01	71.41	72.812	OK	1400	0	800.847	354.14	309.5278483	354.1382314	119.99	OK 900
CUBIERTA	M-12	0.347	296,610	0.00	0.35	173.48	104.09	106.134	OK	1400	0	800.847	450.50	309.5278483	450.4995185	174.46	OK 900
CUBIERTA	M-12	0.844	296,610	0.00	0.84	112.84	67.71	86.009	OK	1400	0	800.847	343.23	309.5278483	343.2282427	113.63	OK 900
CUBIERTA	M-12	0.296	296,610	0.00	0.30	179.64	107.79	136.924	OK	1400	0	800.847	461.41	309.5278483	461.4119605	180.43	OK 900
CUBIERTA	M-12	0.844	296,610	0.00	0.84	112.84	67.71	86.009	OK	1400	0	800.847	343.23	309.5278483	343.2282427	113.63	OK 900
CUBIERTA	M-12	0.296	296,610	0.00	0.30	179.64	107.79	136.924	OK	1400	0	800.847	461.41	309.5278483	461.4119605	180.43	OK 900
CUBIERTA	M-12	0.810	296,610	0.00	0.81	117.01	70.21	77.303	OK	1400	0	800.847	350.60	309.5278483	350.5994743	117.92	OK 900
CUBIERTA	M-12	0.330	296,610	0.00	0.33	175.49	105.29	115.936	OK	1400	0	800.847	454.06	309.5278483	454.0592688	176.40	OK 900
CUBIERTA	M-12	0.810	296,610	0.00	0.81	117.01	70.21	77.303	OK	1400	0	800.847	350.60	309.5278483	350.5994743	117.92	OK 900
CUBIERTA	M-12	0.330	296,610	0.00	0.33	175.49	105.29	115.936	OK	1400	0	800.847	454.06	309.5278483	454.0592688	176.40	OK 900
CUBIERTA	M-12	0.810	296,610	0.00	0.81	117.01	70.21	77.303	OK	1400	0	800.847	350.60	309.5278483	350.5994743	117.92	OK 900
CUBIERTA	M-12	0.330	296,610	0.00	0.33	175.49	105.29	115.936	OK	1400	0	800.847	454.06	309.5278483	454.0592688	176.40	OK 900
CUBIERTA	M-12	0.489	296,610	0.02	0.49	156.13	93.68	14.027	OK	1400	0	800.847	419.82	309.5278483	419.815413	162.81	OK 900
CUBIERTA	M-12	0.538	296,610	0.02	0.54	150.14	90.08	13.488	OK	1400	0	800.847	409.21	309.5278483	409.2081949	156.82	OK 900
CUBIERTA	M-12	0.936	296,610	0.02	0.94	101.61	60.97	12.234	OK	1400	0	800.847	323.35	309.5278483	323.3534968	106.59	OK 900
CUBIERTA	M-12	0.614	296,610	0.02	0.61	140.86	84.51	16.959	OK	1400	0	800.847	392.79	309.5278483	392.7892319	145.84	OK 900
CUBIERTA	M-12	0.272	296,610	0.04	0.27	182.54	109.52	10.442	OK	1400	0	800.847	466.53	309.5278483	466.5326559	193.03	OK 900
CUBIERTA	M-12	0.759	296,610	0.04	0.76	123.14	73.88	7.044	OK	1400	0	800.847	361.44	309.5278483	361.4443223	133.63	OK 900
CUBIERTA	M-12	0.484	296,610	0.03	0.48	156.73	94.04	10.694	OK	1400	0	800.847	420.87	309.5278483	420.8730265	165.52	OK 900
CUBIERTA	M-12	0.845	296,610	0.03	0.85	112.68	67.61	7.688	OK	1400	0	800.847	342.93	309.5278483	342.9291721	121.47	OK 900
CUBIERTA	M-12	0.793	296,610	0.00	0.79	119.02	71.41	97.077	OK	1400	0	800.847	354.15	309.5278483	354.1475919	119.75	OK 900
CUBIERTA	M-12	0.347	296,610	0.00	0.35	173.48	104.09	141.501	OK	1400	0	800.847	450.51	309.5278483	450.5071408	174.22	OK 900
CUBIERTA	M-12	0.793	296,610	0.00	0.79	119.02	71.41	97.077	OK	1400	0	800.847	354.15	309.5278483	354.1475919	119.75	OK 900



NIVEL	PIER	CORTANTE															6b	
		M/Vd	Avm(mm²)	fv(Mpa)	M/Vd	vm	fvm	INDICE	NOTA	Smax=1.2m	Refuerzo por corte.							
										S(mm)	Av(cm²)	M/Vd	M/Vd	M/Vd	Vn(max)(KN)	Vn		Nota
CUBIERTA	M-12	0.347	296,610	0.00	0.35	173.48	104.09	141.501	OK	1400	0	800.847	450.51	309.5278483	450.5071408	174.22	OK	900
CUBIERTA	M-12	0.540	296,610	0.02	0.54	149.92	89.95	14.008	OK	1400	0	800.847	408.82	309.5278483	408.8168744	156.34	OK	900
CUBIERTA	M-12	0.545	296,610	0.02	0.55	149.25	89.55	13.946	OK	1400	0	800.847	407.64	309.5278483	407.6373189	155.67	OK	900
CUBIERTA	M-12	0.851	296,610	0.02	0.85	111.90	67.14	12.812	OK	1400	0	800.847	341.56	309.5278483	341.5647199	117.14	OK	900
CUBIERTA	M-12	0.601	296,610	0.02	0.60	142.40	85.44	16.304	OK	1400	0	800.847	395.52	309.5278483	395.520183	147.64	OK	900
CUBIERTA	M-12	0.299	296,610	0.03	0.30	179.30	107.58	10.515	OK	1400	0	800.847	460.81	309.5278483	460.8052093	189.53	OK	900
CUBIERTA	M-12	0.769	296,610	0.03	0.77	121.90	73.14	7.149	OK	1400	0	800.847	359.26	309.5278483	359.2580705	132.14	OK	900
CUBIERTA	M-12	0.448	296,610	0.03	0.45	161.12	96.67	10.682	OK	1400	0	800.847	428.65	309.5278483	428.6456314	170.17	OK	900
CUBIERTA	M-12	0.831	296,610	0.03	0.83	114.37	68.62	7.582	OK	1400	0	800.847	345.93	309.5278483	345.9279916	123.42	OK	900
CUBIERTA	M-12	1.956	296,610	0.00	1.96	93.80	56.28	56.589	OK	1400	0	800.847	103.36	309.5278483	309.5278483	94.79	OK	900
CUBIERTA	M-12	0.816	296,610	0.00	0.82	116.23	69.74	70.123	OK	1400	0	800.847	349.22	309.5278483	349.2154829	117.22	OK	900
CUBIERTA	M-12	0.778	296,610	0.00	0.78	120.86	72.52	103.462	OK	1400	0	800.847	357.41	309.5278483	357.4108044	121.56	OK	900
CUBIERTA	M-12	1.918	296,610	0.00	1.92	93.80	56.28	80.294	OK	1400	0	800.847	111.49	309.5278483	309.5278483	94.50	OK	900
CUBIERTA	M-12	0.048	296,610	0.01	0.05	187.59	112.56	35.875	OK	1400	0	800.847	514.80	309.5278483	800.847	190.73	OK	900
CUBIERTA	M-12	1.188	296,610	0.01	1.19	93.80	56.28	17.938	OK	1400	0	800.847	268.90	309.5278483	309.5278483	96.93	OK	900
CUBIERTA	M-12	0.258	296,610	0.02	0.26	184.26	110.55	22.876	OK	1400	0	800.847	469.57	309.5278483	469.5738234	189.09	OK	900
CUBIERTA	M-12	0.882	296,610	0.02	0.88	108.22	64.93	13.436	OK	1400	0	800.847	335.05	309.5278483	335.0511359	113.06	OK	900
CUBIERTA	M-12	2.364	296,610	0.00	2.36	93.80	56.28	76.330	OK	1400	0	800.847	-21.89	309.5278483	309.5278483	94.53	OK	900
CUBIERTA	M-12	1.225	296,610	0.00	1.23	93.80	56.28	76.330	OK	1400	0	800.847	260.99	309.5278483	309.5278483	94.53	OK	900
CUBIERTA	M-12	1.684	296,610	0.00	1.68	93.80	56.28	126.866	OK	1400	0	800.847	162.02	309.5278483	309.5278483	94.24	OK	900
CUBIERTA	M-12	2.824	296,610	0.00	2.82	93.80	56.28	126.866	OK	1400	0	800.847	-199.02	309.5278483	309.5278483	94.24	OK	900
CUBIERTA	M-12	0.015	296,610	0.01	0.01	187.59	112.56	33.156	OK	1400	0	800.847	522.11	309.5278483	800.847	190.99	OK	900
CUBIERTA	M-12	1.125	296,610	0.01	1.13	93.80	56.28	16.578	OK	1400	0	800.847	282.50	309.5278483	309.5278483	97.19	OK	900
CUBIERTA	M-12	0.229	296,610	0.02	0.23	187.59	112.56	24.600	OK	1400	0	800.847	475.95	309.5278483	800.847	192.17	OK	900
CUBIERTA	M-12	0.911	296,610	0.02	0.91	104.62	62.77	13.719	OK	1400	0	800.847	328.68	309.5278483	328.6763497	109.19	OK	900



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-1	328.8	0.02	OK	0.76	219.27	8.68	3.95	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.11	OK	0.76	284.96	12.51	4.99	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	224.51	8.99	4.03	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.10	OK	0.76	280.81	12.27	4.92	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.02	OK	0.76	87.70	8.52	1.58	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.09	OK	0.76	144.01	11.81	2.53	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.02	OK	0.76	87.70	8.52	1.58	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.09	OK	0.76	144.01	11.81	2.53	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	221.53	8.81	3.98	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.10	OK	0.76	277.83	12.10	4.88	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	92.67	8.81	1.67	0.04	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.10	OK	0.76	148.97	12.10	2.62	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	92.67	8.81	1.67	0.04	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.10	OK	0.76	148.97	12.10	2.62	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.02	OK	0.76	84.52	8.34	1.52	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.09	OK	0.76	140.83	11.62	2.48	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	95.85	9.00	1.72	0.04	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.10	OK	0.76	152.16	12.28	2.67	0.00	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.01	OK	0.76	76.34	7.86	1.38	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.08	OK	0.76	132.64	11.14	2.35	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.04	OK	0.76	104.04	9.48	1.86	0.04	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.11	OK	0.76	160.34	12.76	2.80	0.01	OK	328,800	103.976	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-1	328.8	0.02	OK	0.76	89.61	8.63	1.61	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.08	OK	0.76	131.83	11.10	2.33	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.02	OK	0.76	89.61	8.63	1.61	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.08	OK	0.76	131.83	11.10	2.33	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.01	OK	0.76	77.98	7.96	1.41	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.06	OK	0.76	120.21	10.42	2.14	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.02	OK	0.76	89.31	8.62	1.61	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.08	OK	0.76	131.54	11.08	2.33	0.00	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.00	OK	0.76	73.16	7.67	1.33	0.00	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.05	OK	0.76	112.02	9.94	2.00	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	97.50	9.09	1.75	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.09	OK	0.76	139.73	11.56	2.46	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.02	OK	0.76	146.19	8.53	2.63	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.09	OK	0.76	202.49	11.81	3.56	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	150.96	8.81	2.71	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.10	OK	0.76	207.27	12.09	3.64	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.01	OK	0.76	82.45	8.22	1.49	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.09	OK	0.76	138.76	11.50	2.45	0.00	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	97.92	9.12	1.76	0.04	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.11	OK	0.76	154.23	12.40	2.70	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.01	OK	0.76	139.65	8.15	2.52	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.07	OK	0.76	181.88	10.61	3.23	0.00	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.02	OK	0.76	86.04	8.42	1.55	0.02	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.07	OK	0.76	128.26	10.89	2.27	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.01	OK	0.76	75.91	7.83	1.37	0.01	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.06	OK	0.76	118.14	10.30	2.10	0.00	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.03	OK	0.76	91.38	8.74	1.64	0.03	OK	328,800	103.976	0.000	OK
CUBIERTA	M-1	328.8	0.08	OK	0.76	133.61	11.20	2.36	0.02	OK	328,800	103.976	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-2	64.4	0.16	OK	0.76	333.25	34.15	4.92	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.34	OK	0.76	361.36	35.79	5.25	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.21	OK	0.76	340.98	34.60	5.01	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.37	OK	0.76	365.08	36.01	5.30	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.14	OK	0.76	329.74	33.95	4.87	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.29	OK	0.76	353.84	35.35	5.17	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.14	OK	0.76	329.74	33.95	4.87	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.29	OK	0.76	353.84	35.35	5.17	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.18	OK	0.76	336.77	34.35	4.96	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.34	OK	0.76	360.86	35.76	5.25	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.18	OK	0.76	336.77	34.35	4.96	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.34	OK	0.76	360.86	35.76	5.25	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.18	OK	0.76	336.77	34.35	4.96	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.34	OK	0.76	360.86	35.76	5.25	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.13	OK	0.76	328.02	33.84	4.85	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.28	OK	0.76	352.11	35.25	5.14	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.19	OK	0.76	338.49	34.46	4.98	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.35	OK	0.76	362.59	35.86	5.27	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.11	OK	0.76	578.43	33.74	8.56	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.27	OK	0.76	602.53	35.15	8.81	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.21	OK	0.76	592.43	34.56	8.71	0.00	OK	64,350	20.349	0.001	OK
CUBIERTA	M-2	64.4	0.36	OK	0.76	616.52	35.96	8.95	0.00	OK	64,350	20.349	0.001	OK
CUBIERTA	M-2	64.4	0.16	OK	0.76	332.91	34.13	4.91	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.28	OK	0.76	350.98	35.18	5.13	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.16	OK	0.76	332.91	34.13	4.91	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.28	OK	0.76	350.98	35.18	5.13	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.07	OK	0.76	571.42	33.33	8.49	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.19	OK	0.76	589.49	34.39	8.68	0.00	OK	64,350	20.349	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-2	64.4	0.14	OK	0.76	329.72	33.94	4.87	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.26	OK	0.76	347.79	35.00	5.09	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.06	OK	0.76	317.48	33.23	4.72	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.18	OK	0.76	335.56	34.28	4.94	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.15	OK	0.76	331.48	34.05	4.89	0.00	OK	64,350	20.349	0.001	OK
CUBIERTA	M-2	64.4	0.27	OK	0.76	349.55	35.10	5.11	0.00	OK	64,350	20.349	0.001	OK
CUBIERTA	M-2	64.4	0.15	OK	0.76	332.17	34.09	4.90	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.31	OK	0.76	356.27	35.49	5.19	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.17	OK	0.76	334.34	34.21	4.93	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.32	OK	0.76	358.43	35.62	5.22	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.18	OK	0.76	335.95	34.31	4.95	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.34	OK	0.76	360.05	35.71	5.24	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.14	OK	0.76	330.56	33.99	4.88	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.30	OK	0.76	354.66	35.40	5.17	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.10	OK	0.76	323.40	33.58	4.79	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.21	OK	0.76	341.47	34.63	5.02	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.11	OK	0.76	325.56	33.70	4.82	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.23	OK	0.76	343.64	34.76	5.04	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.12	OK	0.76	327.18	33.80	4.84	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.24	OK	0.76	345.25	34.85	5.06	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.09	OK	0.76	321.79	33.48	4.77	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-2	64.4	0.20	OK	0.76	339.86	34.54	5.00	0.00	OK	64,350	20.349	0.000	OK
CUBIERTA	M-3	131.3	0.10	OK	0.76	102.56	9.37	1.84	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.31	OK	0.76	168.25	13.20	2.93	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.13	OK	0.76	169.08	9.86	3.02	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.31	OK	0.76	225.38	13.15	3.93	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.09	OK	0.76	156.05	9.10	2.80	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.27	OK	0.76	212.36	12.39	3.72	0.00	OK	131,340	41.533	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-3	131.3	0.09	OK	0.76	98.05	9.10	1.76	0.02	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.27	OK	0.76	154.36	12.39	2.70	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.11	OK	0.76	106.19	9.58	1.90	0.03	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.29	OK	0.76	162.50	12.86	2.84	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.11	OK	0.76	164.19	9.58	2.94	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.29	OK	0.76	220.50	12.86	3.85	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.11	OK	0.76	106.19	9.58	1.90	0.03	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.29	OK	0.76	162.50	12.86	2.84	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.06	OK	0.76	91.20	8.70	1.64	0.04	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.24	OK	0.76	147.50	11.99	2.59	0.00	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.13	OK	0.76	113.05	9.98	2.02	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.31	OK	0.76	169.35	13.26	2.95	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.07	OK	0.76	92.40	8.77	1.66	0.06	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.25	OK	0.76	148.71	12.06	2.61	0.02	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.13	OK	0.76	111.85	9.91	1.99	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.31	OK	0.76	168.15	13.19	2.93	0.03	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.10	OK	0.76	101.06	9.28	1.81	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.23	OK	0.76	143.28	11.74	2.52	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.10	OK	0.76	101.06	9.28	1.81	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.23	OK	0.76	143.28	11.74	2.52	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.03	OK	0.76	80.37	8.07	1.45	0.04	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.16	OK	0.76	122.59	10.53	2.18	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.10	OK	0.76	102.21	9.35	1.83	0.00	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.23	OK	0.76	144.44	11.81	2.54	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.03	OK	0.76	81.57	8.14	1.47	0.06	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.17	OK	0.76	123.80	10.60	2.20	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.10	OK	0.76	101.01	9.28	1.81	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.23	OK	0.76	143.24	11.74	2.52	0.03	OK	131,340	41.533	0.001	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-3	131.3	0.11	OK	0.76	105.98	9.57	1.89	0.03	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.29	OK	0.76	162.28	12.85	2.83	0.01	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.09	OK	0.76	156.27	9.12	2.80	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.27	OK	0.76	212.57	12.40	3.72	0.00	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.09	OK	0.76	158.14	9.22	2.83	0.03	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.27	OK	0.76	214.44	12.51	3.75	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.11	OK	0.76	104.11	9.46	1.86	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.29	OK	0.76	160.41	12.74	2.80	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.08	OK	0.76	95.15	8.93	1.71	0.02	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.21	OK	0.76	137.37	11.40	2.42	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.05	OK	0.76	145.43	8.48	2.62	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.19	OK	0.76	187.66	10.95	3.32	0.00	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.06	OK	0.76	89.31	8.59	1.61	0.04	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.19	OK	0.76	131.54	11.06	2.33	0.02	OK	131,340	41.533	0.001	OK
CUBIERTA	M-3	131.3	0.07	OK	0.76	93.27	8.82	1.68	0.00	OK	131,340	41.533	0.000	OK
CUBIERTA	M-3	131.3	0.21	OK	0.76	135.50	11.29	2.39	0.01	OK	131,340	41.533	0.000	OK
CUBIERTA	M-4	132.2	0.09	OK	0.76	99.92	9.18	1.79	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.30	OK	0.76	165.61	13.01	2.89	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.12	OK	0.76	108.24	9.66	1.93	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.30	OK	0.76	164.55	12.95	2.87	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.08	OK	0.76	95.69	8.93	1.72	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.26	OK	0.76	151.99	12.22	2.67	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.08	OK	0.76	95.69	8.93	1.72	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.26	OK	0.76	151.99	12.22	2.67	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.11	OK	0.76	103.54	9.39	1.85	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.28	OK	0.76	159.84	12.67	2.79	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.11	OK	0.76	103.54	9.39	1.85	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.28	OK	0.76	159.84	12.67	2.79	0.00	OK	132,210	41.808	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-4	132.2	0.11	OK	0.76	103.54	9.39	1.85	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.28	OK	0.76	159.84	12.67	2.79	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.08	OK	0.76	95.31	8.91	1.71	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.26	OK	0.76	151.61	12.19	2.66	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.11	OK	0.76	103.92	9.41	1.86	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.29	OK	0.76	160.22	12.70	2.80	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.07	OK	0.76	91.09	8.66	1.64	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.24	OK	0.76	147.39	11.95	2.59	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.12	OK	0.76	165.56	9.66	2.96	0.00	OK	132,210	41.808	0.001	OK
CUBIERTA	M-4	132.2	0.30	OK	0.76	221.87	12.94	3.87	0.01	OK	132,210	41.808	0.001	OK
CUBIERTA	M-4	132.2	0.09	OK	0.76	156.18	9.11	2.80	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.22	OK	0.76	198.41	11.57	3.50	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.09	OK	0.76	98.76	9.11	1.77	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.22	OK	0.76	140.98	11.57	2.48	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.05	OK	0.76	85.03	8.31	1.53	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.18	OK	0.76	127.26	10.77	2.26	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.07	OK	0.76	151.07	8.81	2.72	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.21	OK	0.76	193.30	11.28	3.41	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.03	OK	0.76	80.82	8.06	1.46	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.17	OK	0.76	123.04	10.53	2.19	0.02	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.09	OK	0.76	97.87	9.06	1.76	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.22	OK	0.76	140.09	11.52	2.47	0.02	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.10	OK	0.76	101.72	9.28	1.82	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.28	OK	0.76	158.02	12.57	2.77	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.09	OK	0.76	97.50	9.04	1.75	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.27	OK	0.76	153.81	12.32	2.70	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.11	OK	0.76	104.32	9.44	1.87	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.29	OK	0.76	160.62	12.72	2.81	0.01	OK	132,210	41.808	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-4	132.2	0.08	OK	0.76	94.91	8.89	1.71	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.26	OK	0.76	151.21	12.17	2.65	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.07	OK	0.76	91.45	8.68	1.65	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.20	OK	0.76	133.68	11.15	2.36	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.05	OK	0.76	87.23	8.44	1.57	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.19	OK	0.76	129.46	10.90	2.29	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.08	OK	0.76	94.05	8.84	1.69	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.21	OK	0.76	136.28	11.30	2.41	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.05	OK	0.76	84.63	8.29	1.53	0.00	OK	132,210	41.808	0.000	OK
CUBIERTA	M-4	132.2	0.18	OK	0.76	126.86	10.75	2.25	0.01	OK	132,210	41.808	0.000	OK
CUBIERTA	M-5	86.1	0.12	OK	0.76	172.39	17.10	2.92	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.26	OK	0.76	200.57	18.75	3.35	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.16	OK	0.76	180.11	17.55	3.04	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.27	OK	0.76	204.27	18.96	3.41	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.10	OK	0.76	289.72	16.90	4.91	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.22	OK	0.76	313.88	18.31	5.26	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.10	OK	0.76	289.72	16.90	4.91	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.22	OK	0.76	313.88	18.31	5.26	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.14	OK	0.76	175.90	17.31	2.97	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.25	OK	0.76	200.06	18.72	3.34	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.14	OK	0.76	175.90	17.31	2.97	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.25	OK	0.76	200.06	18.72	3.34	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.14	OK	0.76	296.73	17.31	5.01	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.25	OK	0.76	320.89	18.72	5.36	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.09	OK	0.76	166.69	16.77	2.83	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.21	OK	0.76	190.84	18.18	3.20	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.15	OK	0.76	178.11	17.44	3.01	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.27	OK	0.76	202.27	18.85	3.38	0.00	OK	86,100	27.227	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-5	86.1	0.09	OK	0.76	165.47	16.70	2.81	0.00	OK	86,100	27.227	0.001	OK
CUBIERTA	M-5	86.1	0.20	OK	0.76	189.62	18.11	3.18	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-5	86.1	0.15	OK	0.76	179.33	17.51	3.03	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.27	OK	0.76	203.49	18.92	3.40	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.12	OK	0.76	172.06	17.09	2.91	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.21	OK	0.76	190.18	18.14	3.19	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.12	OK	0.76	172.06	17.09	2.91	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.21	OK	0.76	190.18	18.14	3.19	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.05	OK	0.76	157.94	16.26	2.69	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.14	OK	0.76	176.06	17.32	2.97	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.10	OK	0.76	169.36	16.93	2.87	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.19	OK	0.76	187.48	17.98	3.15	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.04	OK	0.76	156.72	16.19	2.67	0.00	OK	86,100	27.227	0.001	OK
CUBIERTA	M-5	86.1	0.13	OK	0.76	174.84	17.25	2.96	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-5	86.1	0.11	OK	0.76	170.58	17.00	2.89	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.20	OK	0.76	188.70	18.06	3.17	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.10	OK	0.76	169.22	16.92	2.87	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.22	OK	0.76	193.38	18.33	3.24	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.13	OK	0.76	175.57	17.29	2.97	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.25	OK	0.76	199.73	18.70	3.34	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.10	OK	0.76	289.23	16.87	4.90	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.22	OK	0.76	313.38	18.28	5.26	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.14	OK	0.76	297.23	17.34	5.02	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.26	OK	0.76	321.39	18.75	5.37	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.06	OK	0.76	160.48	16.41	2.73	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.15	OK	0.76	178.60	17.47	3.01	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.09	OK	0.76	166.82	16.78	2.83	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.18	OK	0.76	184.94	17.84	3.11	0.00	OK	86,100	27.227	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-5	86.1	0.06	OK	0.76	280.48	16.36	4.77	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.15	OK	0.76	298.60	17.42	5.04	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.10	OK	0.76	167.65	16.83	2.84	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-5	86.1	0.18	OK	0.76	185.77	17.89	3.12	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-6	172.7	0.04	OK	0.76	125.01	12.38	2.19	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.20	OK	0.76	190.69	16.21	3.25	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.06	OK	0.76	130.01	12.67	2.27	0.03	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.19	OK	0.76	186.31	15.96	3.18	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.04	OK	0.76	122.40	12.23	2.15	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.17	OK	0.76	178.70	15.51	3.06	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.04	OK	0.76	122.40	12.23	2.15	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.17	OK	0.76	178.70	15.51	3.06	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.05	OK	0.76	127.15	12.51	2.23	0.03	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.19	OK	0.76	183.46	15.79	3.13	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.05	OK	0.76	127.15	12.51	2.23	0.03	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.19	OK	0.76	183.46	15.79	3.13	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.05	OK	0.76	127.15	12.51	2.23	0.03	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.19	OK	0.76	183.46	15.79	3.13	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.03	OK	0.76	119.14	12.04	2.09	0.03	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.17	OK	0.76	175.45	15.32	3.01	0.00	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.06	OK	0.76	130.41	12.70	2.28	0.02	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.19	OK	0.76	186.72	15.98	3.19	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.01	OK	0.76	110.93	11.56	1.96	0.04	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.15	OK	0.76	167.23	14.84	2.88	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.08	OK	0.76	138.63	13.17	2.42	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.21	OK	0.76	194.93	16.46	3.31	0.02	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.04	OK	0.76	211.42	12.33	3.71	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.15	OK	0.76	253.64	14.80	4.37	0.01	OK	172,650	54.597	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-6	172.7	0.04	OK	0.76	211.42	12.33	3.71	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.15	OK	0.76	253.64	14.80	4.37	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.01	OK	0.76	112.86	11.67	1.99	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.12	OK	0.76	155.09	14.13	2.68	0.00	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.04	OK	0.76	124.13	12.33	2.18	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.14	OK	0.76	166.35	14.79	2.86	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.01	OK	0.76	196.11	11.44	3.46	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.10	OK	0.76	234.09	13.66	4.06	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.06	OK	0.76	132.34	12.81	2.31	0.00	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.16	OK	0.76	174.57	15.27	2.99	0.02	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.05	OK	0.76	127.10	12.50	2.23	0.02	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.19	OK	0.76	183.41	15.79	3.13	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.04	OK	0.76	122.45	12.23	2.15	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.18	OK	0.76	178.75	15.52	3.06	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.06	OK	0.76	132.49	12.82	2.31	0.03	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.20	OK	0.76	188.80	16.10	3.22	0.02	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.03	OK	0.76	117.06	11.92	2.06	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.16	OK	0.76	173.36	15.20	2.98	0.00	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.03	OK	0.76	120.82	12.14	2.12	0.02	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.14	OK	0.76	163.05	14.60	2.81	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.02	OK	0.76	116.17	11.86	2.04	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.13	OK	0.76	158.39	14.33	2.74	0.00	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.05	OK	0.76	126.21	12.45	2.21	0.02	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.15	OK	0.76	168.44	14.91	2.90	0.01	OK	172,650	54.597	0.001	OK
CUBIERTA	M-6	172.7	0.01	OK	0.76	110.77	11.55	1.95	0.01	OK	172,650	54.597	0.000	OK
CUBIERTA	M-6	172.7	0.11	OK	0.76	153.00	14.01	2.65	0.00	OK	172,650	54.597	0.000	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	116.19	10.36	2.07	0.08	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.15	OK	0.76	225.76	16.75	3.83	0.02	OK	411,000	129.970	0.001	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-7	411.0	0.05	OK	0.76	127.76	11.03	2.26	0.10	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.15	OK	0.76	221.67	16.51	3.77	0.02	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	110.33	10.02	1.97	0.07	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.13	OK	0.76	204.24	15.49	3.50	0.01	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	171.70	10.02	3.06	0.05	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.13	OK	0.76	265.62	15.49	4.55	0.01	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.05	OK	0.76	182.60	10.65	3.24	0.06	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.14	OK	0.76	276.51	16.13	4.71	0.01	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.05	OK	0.76	121.22	10.65	2.15	0.09	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.14	OK	0.76	215.14	16.13	3.67	0.02	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.05	OK	0.76	121.22	10.65	2.15	0.09	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.14	OK	0.76	215.14	16.13	3.67	0.02	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.02	OK	0.76	157.43	9.18	2.82	0.05	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.12	OK	0.76	251.34	14.66	4.33	0.04	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.06	OK	0.76	135.50	11.48	2.39	0.08	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.16	OK	0.76	229.42	16.96	3.89	0.02	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.03	OK	0.76	106.07	9.77	1.89	0.08	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.13	OK	0.76	199.99	15.25	3.43	0.03	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.05	OK	0.76	125.48	10.90	2.22	0.08	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.15	OK	0.76	219.39	16.38	3.73	0.00	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	114.60	10.27	2.04	0.08	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.11	OK	0.76	185.04	14.37	3.20	0.02	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	114.60	10.27	2.04	0.08	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.11	OK	0.76	185.04	14.37	3.20	0.02	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.01	OK	0.76	81.80	8.35	1.48	0.06	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.08	OK	0.76	152.24	12.46	2.67	0.06	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.05	OK	0.76	121.25	10.65	2.15	0.06	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.12	OK	0.76	191.69	14.76	3.30	0.02	OK	411,000	129.970	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-7	411.0	0.02	OK	0.76	91.83	8.94	1.65	0.06	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.09	OK	0.76	162.26	13.05	2.83	0.03	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	111.23	10.07	1.98	0.06	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.11	OK	0.76	181.67	14.18	3.14	0.01	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.05	OK	0.76	125.40	10.90	2.22	0.08	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.15	OK	0.76	219.32	16.37	3.73	0.03	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.03	OK	0.76	106.15	9.77	1.90	0.08	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.13	OK	0.76	200.06	15.25	3.43	0.00	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	118.27	10.48	2.10	0.08	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.14	OK	0.76	212.18	15.96	3.62	0.02	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	174.66	10.19	3.11	0.05	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.13	OK	0.76	268.57	15.67	4.59	0.01	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.04	OK	0.76	172.53	10.06	3.07	0.04	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.11	OK	0.76	242.97	14.17	4.20	0.02	OK	411,000	129.970	0.001	OK
CUBIERTA	M-7	411.0	0.02	OK	0.76	91.90	8.94	1.65	0.06	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.09	OK	0.76	162.34	13.05	2.83	0.01	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.03	OK	0.76	104.02	9.65	1.86	0.06	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.10	OK	0.76	174.46	13.76	3.03	0.02	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.02	OK	0.76	160.41	9.36	2.87	0.04	OK	411,000	129.970	0.000	OK
CUBIERTA	M-7	411.0	0.10	OK	0.76	230.85	13.47	4.01	0.00	OK	411,000	129.970	0.000	OK
CUBIERTA	M-8	80.9	0.07	OK	0.76	181.87	18.66	3.04	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.21	OK	0.76	210.14	20.31	3.47	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.08	OK	0.76	185.31	18.87	3.09	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.21	OK	0.76	209.54	20.28	3.46	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.06	OK	0.76	180.04	18.56	3.01	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.18	OK	0.76	204.27	19.97	3.38	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.06	OK	0.76	180.04	18.56	3.01	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.18	OK	0.76	204.27	19.97	3.38	0.00	OK	80,880	25.577	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-8	80.9	0.07	OK	0.76	183.33	18.75	3.06	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.20	OK	0.76	207.57	20.16	3.43	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.07	OK	0.76	183.33	18.75	3.06	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.20	OK	0.76	207.57	20.16	3.43	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.07	OK	0.76	183.33	18.75	3.06	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.20	OK	0.76	207.57	20.16	3.43	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.01	OK	0.76	171.52	18.06	2.88	0.00	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.14	OK	0.76	195.75	19.47	3.25	0.01	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.12	OK	0.76	191.85	19.25	3.19	0.01	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.24	OK	0.76	216.08	20.66	3.56	0.01	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.04	OK	0.76	176.60	18.36	2.96	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.17	OK	0.76	200.83	19.77	3.33	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.09	OK	0.76	186.77	18.95	3.12	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.22	OK	0.76	211.00	20.36	3.48	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.06	OK	0.76	181.25	18.63	3.03	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.16	OK	0.76	199.42	19.69	3.31	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.06	OK	0.76	319.34	18.63	5.34	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.16	OK	0.76	337.52	19.69	5.60	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.01	OK	0.76	309.07	18.03	5.19	0.00	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.08	OK	0.76	323.39	18.86	5.40	0.01	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.10	OK	0.76	187.46	18.99	3.13	0.01	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.19	OK	0.76	205.63	20.05	3.40	0.01	OK	80,880	25.577	0.001	OK
CUBIERTA	M-8	80.9	0.02	OK	0.76	172.21	18.10	2.89	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.11	OK	0.76	190.38	19.16	3.17	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.07	OK	0.76	320.47	18.69	5.36	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.16	OK	0.76	338.64	19.75	5.62	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.09	OK	0.76	186.75	18.95	3.12	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.22	OK	0.76	210.99	20.36	3.48	0.00	OK	80,880	25.577	0.000	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-8	80.9	0.04	OK	0.76	176.62	18.36	2.96	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.17	OK	0.76	200.85	19.77	3.33	0.01	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.07	OK	0.76	182.29	18.69	3.05	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.19	OK	0.76	206.52	20.10	3.42	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.06	OK	0.76	181.08	18.62	3.03	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.19	OK	0.76	205.32	20.03	3.40	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.07	OK	0.76	182.36	18.69	3.05	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.16	OK	0.76	200.53	19.75	3.33	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.02	OK	0.76	172.22	18.10	2.89	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.11	OK	0.76	190.39	19.16	3.17	0.01	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.05	OK	0.76	177.89	18.43	2.98	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.14	OK	0.76	196.06	19.49	3.26	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.04	OK	0.76	176.69	18.36	2.96	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-8	80.9	0.13	OK	0.76	194.86	19.42	3.24	0.00	OK	80,880	25.577	0.000	OK
CUBIERTA	M-9	315.8	0.05	OK	0.76	115.66	10.33	2.06	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.20	OK	0.76	223.20	16.61	3.79	0.01	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.07	OK	0.76	126.98	10.99	2.25	0.10	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.19	OK	0.76	219.15	16.37	3.73	0.02	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.05	OK	0.76	109.89	10.00	1.96	0.07	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.17	OK	0.76	202.06	15.37	3.46	0.01	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.05	OK	0.76	109.89	10.00	1.96	0.07	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.17	OK	0.76	202.06	15.37	3.46	0.01	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.06	OK	0.76	120.57	10.62	2.14	0.09	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.18	OK	0.76	212.74	16.00	3.63	0.02	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.06	OK	0.76	120.57	10.62	2.14	0.09	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.18	OK	0.76	212.74	16.00	3.63	0.02	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.06	OK	0.76	120.57	10.62	2.14	0.09	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.18	OK	0.76	212.74	16.00	3.63	0.02	OK	315,750	99.849	0.001	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-9	315.8	0.03	OK	0.76	94.10	9.08	1.69	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.15	OK	0.76	186.27	14.45	3.21	0.06	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.08	OK	0.76	136.36	11.54	2.40	0.08	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.20	OK	0.76	228.53	16.92	3.87	0.02	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.04	OK	0.76	105.06	9.72	1.88	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.16	OK	0.76	197.24	15.09	3.39	0.03	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.07	OK	0.76	125.40	10.90	2.22	0.08	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.19	OK	0.76	217.57	16.28	3.70	0.00	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.05	OK	0.76	114.05	10.24	2.03	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.14	OK	0.76	183.18	14.27	3.17	0.02	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.05	OK	0.76	114.05	10.24	2.03	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.14	OK	0.76	183.18	14.27	3.17	0.02	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.01	OK	0.76	80.10	8.26	1.45	0.06	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.10	OK	0.76	149.23	12.29	2.62	0.06	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.06	OK	0.76	122.37	10.72	2.17	0.06	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.15	OK	0.76	191.49	14.76	3.30	0.03	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.02	OK	0.76	91.07	8.90	1.64	0.05	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.11	OK	0.76	160.20	12.93	2.80	0.03	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.05	OK	0.76	111.40	10.09	1.98	0.06	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.14	OK	0.76	180.53	14.12	3.12	0.01	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.07	OK	0.76	125.68	10.92	2.23	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.19	OK	0.76	217.85	16.29	3.71	0.03	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.04	OK	0.76	104.78	9.70	1.87	0.08	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.16	OK	0.76	196.96	15.08	3.38	0.00	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.06	OK	0.76	119.52	10.56	2.12	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.18	OK	0.76	211.69	15.94	3.61	0.02	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.05	OK	0.76	110.94	10.06	1.98	0.08	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.17	OK	0.76	203.12	15.44	3.48	0.01	OK	315,750	99.849	0.001	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-9	315.8	0.05	OK	0.76	111.68	10.10	1.99	0.06	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.14	OK	0.76	180.81	14.13	3.13	0.03	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.02	OK	0.76	90.79	8.88	1.63	0.06	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.11	OK	0.76	159.92	12.92	2.79	0.01	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.04	OK	0.76	105.52	9.74	1.88	0.06	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.13	OK	0.76	174.65	13.77	3.03	0.02	OK	315,750	99.849	0.001	OK
CUBIERTA	M-9	315.8	0.03	OK	0.76	96.95	9.24	1.74	0.06	OK	315,750	99.849	0.000	OK
CUBIERTA	M-9	315.8	0.12	OK	0.76	166.08	13.27	2.89	0.00	OK	315,750	99.849	0.000	OK
CUBIERTA	M-10	177.0	0.10	OK	0.76	145.22	13.37	2.53	0.18	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.36	OK	0.76	254.79	19.77	4.22	0.06	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.13	OK	0.76	156.85	14.05	2.71	0.23	OK	177,000	55.972	0.006	OK
CUBIERTA	M-10	177.0	0.35	OK	0.76	250.76	19.53	4.17	0.08	OK	177,000	55.972	0.006	OK
CUBIERTA	M-10	177.0	0.09	OK	0.76	139.17	13.02	2.43	0.16	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.31	OK	0.76	233.09	18.50	3.90	0.06	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.09	OK	0.76	139.17	13.02	2.43	0.16	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.31	OK	0.76	233.09	18.50	3.90	0.06	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.11	OK	0.76	150.22	13.67	2.61	0.21	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.34	OK	0.76	244.13	19.14	4.07	0.07	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.11	OK	0.76	150.22	13.67	2.61	0.21	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.34	OK	0.76	244.13	19.14	4.07	0.07	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.11	OK	0.76	150.22	13.67	2.61	0.21	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.34	OK	0.76	244.13	19.14	4.07	0.07	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.06	OK	0.76	127.32	12.33	2.23	0.25	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.28	OK	0.76	221.24	17.81	3.72	0.03	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.14	OK	0.76	162.07	14.36	2.80	0.13	OK	177,000	55.972	0.006	OK
CUBIERTA	M-10	177.0	0.36	OK	0.76	255.99	19.84	4.24	0.10	OK	177,000	55.972	0.006	OK
CUBIERTA	M-10	177.0	0.07	OK	0.76	132.12	12.61	2.31	0.22	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.29	OK	0.76	226.03	18.09	3.80	0.05	OK	177,000	55.972	0.003	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-10	177.0	0.13	OK	0.76	157.27	14.08	2.72	0.15	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.35	OK	0.76	251.19	19.56	4.17	0.08	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.10	OK	0.76	143.36	13.27	2.50	0.19	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.26	OK	0.76	213.80	17.37	3.61	0.07	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.10	OK	0.76	143.36	13.27	2.50	0.19	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.26	OK	0.76	213.80	17.37	3.61	0.07	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.02	OK	0.76	112.73	11.48	1.99	0.20	OK	177,000	55.972	0.001	OK
CUBIERTA	M-10	177.0	0.19	OK	0.76	183.17	15.59	3.13	0.00	OK	177,000	55.972	0.001	OK
CUBIERTA	M-10	177.0	0.11	OK	0.76	147.48	13.51	2.56	0.07	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.27	OK	0.76	217.92	17.62	3.67	0.09	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.03	OK	0.76	117.53	11.76	2.07	0.17	OK	177,000	55.972	0.002	OK
CUBIERTA	M-10	177.0	0.20	OK	0.76	187.96	15.87	3.21	0.03	OK	177,000	55.972	0.002	OK
CUBIERTA	M-10	177.0	0.09	OK	0.76	142.68	13.23	2.48	0.10	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.26	OK	0.76	213.12	17.34	3.60	0.07	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.08	OK	0.76	136.12	12.84	2.38	0.17	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.30	OK	0.76	230.04	18.32	3.86	0.05	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.12	OK	0.76	153.27	13.84	2.66	0.19	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.34	OK	0.76	247.18	19.32	4.11	0.08	OK	177,000	55.972	0.005	OK
CUBIERTA	M-10	177.0	0.09	OK	0.76	139.26	13.03	2.43	0.19	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.31	OK	0.76	233.18	18.51	3.90	0.06	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.11	OK	0.76	150.13	13.66	2.61	0.18	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.33	OK	0.76	244.05	19.14	4.07	0.07	OK	177,000	55.972	0.004	OK
CUBIERTA	M-10	177.0	0.04	OK	0.76	121.53	11.99	2.14	0.11	OK	177,000	55.972	0.002	OK
CUBIERTA	M-10	177.0	0.21	OK	0.76	191.97	16.10	3.27	0.02	OK	177,000	55.972	0.002	OK
CUBIERTA	M-10	177.0	0.08	OK	0.76	138.68	12.99	2.42	0.14	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.25	OK	0.76	209.11	17.10	3.54	0.07	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.05	OK	0.76	124.67	12.18	2.19	0.13	OK	177,000	55.972	0.002	OK
CUBIERTA	M-10	177.0	0.22	OK	0.76	195.10	16.28	3.32	0.04	OK	177,000	55.972	0.002	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-10	177.0	0.08	OK	0.76	135.54	12.81	2.37	0.13	OK	177,000	55.972	0.003	OK
CUBIERTA	M-10	177.0	0.24	OK	0.76	205.98	16.92	3.49	0.05	OK	177,000	55.972	0.003	OK
CUBIERTA	M-11	86.1	0.15	OK	0.76	178.36	17.45	3.01	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.46	OK	0.76	242.09	21.17	3.97	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.19	OK	0.76	187.24	17.97	3.15	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.46	OK	0.76	241.86	21.16	3.97	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.13	OK	0.76	174.01	17.20	2.94	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.39	OK	0.76	228.63	20.39	3.77	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.13	OK	0.76	174.01	17.20	2.94	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.39	OK	0.76	228.63	20.39	3.77	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.17	OK	0.76	182.28	17.68	3.07	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.43	OK	0.76	236.90	20.87	3.89	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.17	OK	0.76	182.28	17.68	3.07	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.43	OK	0.76	236.90	20.87	3.89	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.17	OK	0.76	182.28	17.68	3.07	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.43	OK	0.76	236.90	20.87	3.89	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.05	OK	0.76	158.62	16.30	2.70	0.02	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.32	OK	0.76	213.24	19.49	3.54	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.24	OK	0.76	197.66	18.58	3.31	0.00	OK	86,100	27.227	0.002	OK
CUBIERTA	M-11	86.1	0.51	OK	0.76	252.29	21.77	4.12	0.03	OK	86,100	27.227	0.002	OK
CUBIERTA	M-11	86.1	0.11	OK	0.76	171.42	17.05	2.90	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.38	OK	0.76	226.04	20.23	3.73	0.00	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.18	OK	0.76	184.87	17.83	3.11	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.45	OK	0.76	239.49	21.02	3.93	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.14	OK	0.76	177.41	17.40	3.00	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.34	OK	0.76	218.37	19.79	3.62	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.14	OK	0.76	177.41	17.40	3.00	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.34	OK	0.76	218.37	19.79	3.62	0.01	OK	86,100	27.227	0.001	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-11	86.1	0.00	OK	0.76	147.96	15.68	2.53	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.20	OK	0.76	188.93	18.07	3.17	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.19	OK	0.76	187.01	17.96	3.14	0.00	OK	86,100	27.227	0.002	OK
CUBIERTA	M-11	86.1	0.39	OK	0.76	227.98	20.35	3.76	0.02	OK	86,100	27.227	0.002	OK
CUBIERTA	M-11	86.1	0.06	OK	0.76	160.76	16.43	2.73	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.26	OK	0.76	201.73	18.82	3.37	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.13	OK	0.76	174.21	17.21	2.95	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.33	OK	0.76	215.18	19.60	3.57	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.09	OK	0.76	166.97	16.79	2.83	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.36	OK	0.76	221.59	19.97	3.67	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.20	OK	0.76	189.31	18.09	3.18	0.02	OK	86,100	27.227	0.002	OK
CUBIERTA	M-11	86.1	0.47	OK	0.76	243.94	21.28	4.00	0.02	OK	86,100	27.227	0.002	OK
CUBIERTA	M-11	86.1	0.13	OK	0.76	174.50	17.23	2.95	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.40	OK	0.76	229.12	20.41	3.78	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.17	OK	0.76	181.79	17.65	3.06	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.43	OK	0.76	236.41	20.84	3.89	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.04	OK	0.76	156.31	16.17	2.66	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.24	OK	0.76	197.28	18.56	3.30	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.15	OK	0.76	178.66	17.47	3.01	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.35	OK	0.76	219.63	19.86	3.64	0.02	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.08	OK	0.76	163.84	16.61	2.78	0.01	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.28	OK	0.76	204.81	19.00	3.42	0.00	OK	86,100	27.227	0.000	OK
CUBIERTA	M-11	86.1	0.11	OK	0.76	171.13	17.03	2.90	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-11	86.1	0.31	OK	0.76	212.10	19.42	3.53	0.01	OK	86,100	27.227	0.001	OK
CUBIERTA	M-12	296.6	0.06	OK	0.76	123.43	11.09	2.18	0.21	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.21	OK	0.76	230.96	17.36	3.90	0.06	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.08	OK	0.76	134.92	11.76	2.37	0.26	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.21	OK	0.76	227.10	17.14	3.84	0.09	OK	296,610	93.796	0.003	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-12	296.6	0.05	OK	0.76	117.45	10.74	2.08	0.19	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.18	OK	0.76	209.62	16.12	3.57	0.06	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.05	OK	0.76	117.45	10.74	2.08	0.19	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.18	OK	0.76	209.62	16.12	3.57	0.06	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.07	OK	0.76	128.37	11.38	2.27	0.24	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.20	OK	0.76	220.54	16.75	3.74	0.08	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.07	OK	0.76	128.37	11.38	2.27	0.24	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.20	OK	0.76	220.54	16.75	3.74	0.08	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.07	OK	0.76	128.37	11.38	2.27	0.24	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.20	OK	0.76	220.54	16.75	3.74	0.08	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.03	OK	0.76	104.70	10.00	1.87	0.31	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.16	OK	0.76	196.87	15.37	3.37	0.03	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.08	OK	0.76	141.12	12.12	2.48	0.14	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.21	OK	0.76	233.29	17.50	3.94	0.11	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.04	OK	0.76	109.83	10.30	1.95	0.26	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.17	OK	0.76	202.00	15.67	3.45	0.05	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.08	OK	0.76	135.99	11.82	2.39	0.17	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.21	OK	0.76	228.16	17.20	3.86	0.09	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.06	OK	0.76	121.60	10.98	2.15	0.22	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.15	OK	0.76	190.72	15.01	3.28	0.08	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.06	OK	0.76	121.60	10.98	2.15	0.22	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.15	OK	0.76	190.72	15.01	3.28	0.08	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.01	OK	0.76	90.28	9.16	1.62	0.25	OK	296,610	93.796	0.001	OK
CUBIERTA	M-12	296.6	0.11	OK	0.76	159.41	13.19	2.78	0.00	OK	296,610	93.796	0.001	OK
CUBIERTA	M-12	296.6	0.06	OK	0.76	126.70	11.28	2.24	0.08	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.16	OK	0.76	195.83	15.31	3.36	0.10	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.02	OK	0.76	95.41	9.45	1.71	0.20	OK	296,610	93.796	0.001	OK
CUBIERTA	M-12	296.6	0.12	OK	0.76	164.54	13.49	2.86	0.03	OK	296,610	93.796	0.001	OK



NIVEL	PIER	FLEXION PERPENDICULAR AL PLANO								Nota	RESISTENCIA A CORTANTE PERPENDICULAR AL PLANO			
		Carga Axial (KN) D.5.7.2	INDICIE	Nota	Re	Ase(mm^2)	a (mm)	Mn (KN*m)	INDICIE		Amv(mm^2)	Vn	INDICE	Nota
CUBIERTA	M-12	296.6	0.06	OK	0.76	121.57	10.98	2.15	0.11	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.15	OK	0.76	190.70	15.01	3.28	0.07	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.05	OK	0.76	115.86	10.65	2.06	0.20	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.18	OK	0.76	208.03	16.02	3.55	0.05	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.07	OK	0.76	129.96	11.47	2.29	0.23	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.20	OK	0.76	222.13	16.85	3.77	0.09	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.06	OK	0.76	123.22	11.08	2.18	0.20	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.19	OK	0.76	215.39	16.45	3.66	0.06	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.06	OK	0.76	122.61	11.04	2.17	0.23	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.19	OK	0.76	214.78	16.42	3.65	0.08	OK	296,610	93.796	0.003	OK
CUBIERTA	M-12	296.6	0.03	OK	0.76	101.44	9.81	1.81	0.13	OK	296,610	93.796	0.001	OK
CUBIERTA	M-12	296.6	0.13	OK	0.76	170.57	13.84	2.96	0.03	OK	296,610	93.796	0.001	OK
CUBIERTA	M-12	296.6	0.05	OK	0.76	115.54	10.63	2.05	0.17	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.15	OK	0.76	184.67	14.66	3.18	0.08	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.04	OK	0.76	108.79	10.24	1.94	0.14	OK	296,610	93.796	0.001	OK
CUBIERTA	M-12	296.6	0.14	OK	0.76	177.92	14.27	3.07	0.04	OK	296,610	93.796	0.001	OK
CUBIERTA	M-12	296.6	0.04	OK	0.76	108.19	10.20	1.93	0.17	OK	296,610	93.796	0.002	OK
CUBIERTA	M-12	296.6	0.14	OK	0.76	177.32	14.23	3.07	0.06	OK	296,610	93.796	0.002	OK