INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C1	73	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	92.4264	600	600	550	284	259.52	150	145.787	303.98	0.30
N+110.65	C1	73	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	92.4264	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C1	73	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	92.4264	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C1	73	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	22.2099	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C1	73	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	22.2099	600	600	550	213	259.52	300	54.67	235.64	0.09
N+110.65	C1	73	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	22.2099	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C1	73	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.4843	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C1	73	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.4843	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C1	73	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.4843	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C1	73	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	14.0942	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C1	73	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	14.0942	600	600	550	213	259.52	300	54.67	235.64	0.06
N+110.65	C1	73	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	14.0942	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C1	73	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	83.6494	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C1	73	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	83.6494	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C1	73	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	83.6494	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C1	73	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	30.9869	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C1	73	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	30.9869	600	600	550	213	259.52	300	54.67	235.64	0.13
N+110.65	C1	73	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	30.9869	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C1	73	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	73.9356	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C1	73	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	73.9356	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C1	73	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	73.9356	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C1	73	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	22.6429	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C1	73	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	22.6429	600	600	550	213	259.52	300	54.67	235.64	0.10
N+110.65	C1	73	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	22.6429	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C2	74	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	104.289	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C2	74	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	104.289	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C2	74	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	104.289	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C2	74	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	31.8831	600	600	550	213	259.52	150	109.34	276.64	0.12
N+110.65	C2	74	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	31.8831	600	600	550	213	259.52	300	54.67	235.64	0.14
N+110.65	C2	74	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	31.8831	600	600	550	213	259.52	150	109.34	276.64	0.12
N+110.65	C2	74	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	69.8657	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C2	74	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	69.8657	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C2	74	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	69.8657	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C2	74	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	84.2019	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C2	74	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	84.2019	600	600	550	213	259.52	300	54.67	235.64	0.36
N+110.65	C2	74	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	84.2019	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C2	74	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	92.4753	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C2	74	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	92.4753	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C2	74	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	92.4753	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C2	74	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	30.091	600	600	550	213	259.52	150	109.34	276.64	0.11

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C2	74	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	30.091	600	600	550	213	259.52	300	54.67	235.64	0.13
N+110.65	C2	74	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	30.091	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C2	74	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.6577	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C2	74	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.6577	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C2	74	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.6577	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C2	74	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.4098	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C2	74	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.4098	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C2	74	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.4098	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C3	75	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	129.695	600	600	550	213	259.52	150	109.34	276.64	0.47
N+110.65	C3	75	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	129.695	600	600	550	213	259.52	300	54.67	235.64	0.55
N+110.65	C3	75	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	129.695	600	600	550	213	259.52	150	109.34	276.64	0.47
N+110.65	C3	75	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	19.8882	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C3	75	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	19.8882	600	600	550	213	259.52	300	54.67	235.64	0.08
N+110.65	C3	75	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	19.8882	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C3	75	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	86.5659	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C3	75	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	86.5659	600	600	550	213	259.52	300	54.67	235.64	0.37
N+110.65	C3	75	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	86.5659	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C3	75	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.81	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C3	75	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.81	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C3	75	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.81	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C3	75	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	112.89	600	600	550	213	259.52	150	109.34	276.64	0.41
N+110.65	C3	75	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	112.89	600	600	550	213	259.52	300	54.67	235.64	0.48
N+110.65	C3	75	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	112.89	600	600	550	213	259.52	150	109.34	276.64	0.41
N+110.65	C3	75	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	20.6159	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C3	75	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	20.6159	600	600	550	213	259.52	300	54.67	235.64	0.09
N+110.65	C3	75	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	20.6159	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C3	75	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	75.9041	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C3	75	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	75.9041	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C3	75	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	75.9041	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C3	75	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.5377	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C3	75	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.5377	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C3	75	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.5377	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C4	76	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	130.113	600	600	550	213	259.52	150	109.34	276.64	0.47
N+110.65	C4	76	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	130.113	600	600	550	213	259.52	300	54.67	235.64	0.55
N+110.65	C4	76	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	130.113	600	600	550	213	259.52	150	109.34	276.64	0.47
N+110.65	C4	76	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	28.7171	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C4	76	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	28.7171	600	600	550	213	259.52	300	54.67	235.64	0.12
N+110.65	C4	76	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	28.7171	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C4	76	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	88.6507	600	600	550	213	259.52	150	109.34	276.64	0.32
N+110.65	C4	76	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	88.6507	600	600	550	213	259.52	300	54.67	235.64	0.38

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C4	76	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	88.6507	600	600	550	213	259.52	150	109.34	276.64	0.32
N+110.65	C4	76	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	76.8227	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C4	76	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	76.8227	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C4	76	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	76.8227	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C4	76	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	113.186	600	600	550	213	259.52	150	109.34	276.64	0.41
N+110.65	C4	76	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	113.186	600	600	550	213	259.52	300	54.67	235.64	0.48
N+110.65	C4	76	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	113.186	600	600	550	213	259.52	150	109.34	276.64	0.41
N+110.65	C4	76	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	27.7039	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C4	76	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	27.7039	600	600	550	213	259.52	300	54.67	235.64	0.12
N+110.65	C4	76	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	27.7039	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C4	76	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.7242	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C4	76	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.7242	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C4	76	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.7242	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C4	76	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	75.8096	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C4	76	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	75.8096	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C4	76	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	75.8096	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C5	77	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.377	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C5	77	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.377	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C5	77	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.377	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C5	77	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	16.2123	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C5	77	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	16.2123	600	600	550	213	259.52	300	54.67	235.64	0.07
N+110.65	C5	77	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	16.2123	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C5	77	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	85.4494	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C5	77	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	85.4494	600	600	550	213	259.52	300	54.67	235.64	0.36
N+110.65	C5	77	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	85.4494	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C5	77	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	68.8197	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C5	77	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	68.8197	600	600	550	213	259.52	300	54.67	235.64	0.29
N+110.65	C5	77	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	68.8197	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C5	77	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	91.7678	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C5	77	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	91.7678	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C5	77	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	91.7678	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C5	77	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	22.1101	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C5	77	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	22.1101	600	600	550	213	259.52	300	54.67	235.64	0.09
N+110.65	C5	77	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	22.1101	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C5	77	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	83.3707	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C5	77	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	83.3707	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C5	77	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	83.3707	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C5	77	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	70.8984	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C5	77	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	70.8984	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C5	77	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	70.8984	600	600	550	213	259.52	150	109.34	276.64	0.26

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C6	78	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	93.107	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C6	78	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	93.107	600	600	550	213	259.52	300	54.67	235.64	0.40
N+110.65	C6	78	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	93.107	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C6	78	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	52.4935	600	600	550	213	259.52	150	109.34	276.64	0.19
N+110.65	C6	78	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	52.4935	600	600	550	213	259.52	300	54.67	235.64	0.22
N+110.65	C6	78	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	52.4935	600	600	550	213	259.52	150	109.34	276.64	0.19
N+110.65	C6	78	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	55.1589	600	600	550	213	259.52	150	109.34	276.64	0.20
N+110.65	C6	78	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	55.1589	600	600	550	213	259.52	300	54.67	235.64	0.23
N+110.65	C6	78	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	55.1589	600	600	550	213	259.52	150	109.34	276.64	0.20
N+110.65	C6	78	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	85.4088	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C6	78	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	85.4088	600	600	550	213	259.52	300	54.67	235.64	0.36
N+110.65	C6	78	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	85.4088	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C6	78	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	84.2536	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C6	78	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	84.2536	600	600	550	213	259.52	300	54.67	235.64	0.36
N+110.65	C6	78	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	84.2536	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C6	78	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	43.3935	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C6	78	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	43.3935	600	600	550	213	259.52	300	54.67	235.64	0.18
N+110.65	C6	78	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	43.3935	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C6	78	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	46.3055	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C6	78	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	46.3055	600	600	550	213	259.52	300	54.67	235.64	0.20
N+110.65	C6	78	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	46.3055	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C6	78	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	76.3089	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C6	78	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	76.3089	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C6	78	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	76.3089	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C7	79	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.8809	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C7	79	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.8809	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C7	79	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.8809	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C7	79	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.998	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C7	79	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.998	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C7	79	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.998	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C7	79	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	96.392	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C7	79	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	96.392	600	600	550	213	259.52	300	54.67	235.64	0.41
N+110.65	C7	79	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	96.392	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C7	79	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	42.6478	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C7	79	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	42.6478	600	600	550	213	259.52	300	54.67	235.64	0.18
N+110.65	C7	79	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	42.6478	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C7	79	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	80.7705	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C7	79	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	80.7705	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C7	79	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	80.7705	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C7	79	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.1083	600	600	550	213	259.52	150	109.34	276.64	0.35

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C7	79	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.1083	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C7	79	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.1083	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C7	79	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	84.4729	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C7	79	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	84.4729	600	600	550	213	259.52	300	54.67	235.64	0.36
N+110.65	C7	79	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	84.4729	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C7	79	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	39.7581	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C7	79	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	39.7581	600	600	550	213	259.52	300	54.67	235.64	0.17
N+110.65	C7	79	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	39.7581	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C8	80	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.2414	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C8	80	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.2414	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C8	80	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.2414	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C8	80	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	101.312	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C8	80	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	101.312	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C8	80	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	101.312	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C8	80	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	71.2708	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C8	80	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	71.2708	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C8	80	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	71.2708	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C8	80	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	83.5567	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C8	80	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	83.5567	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C8	80	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	83.5567	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C8	80	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	81.1252	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C8	80	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	81.1252	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C8	80	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	81.1252	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C8	80	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.4283	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C8	80	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.4283	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C8	80	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.4283	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C8	80	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	72.8065	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C8	80	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	72.8065	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C8	80	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	72.8065	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C8	80	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.0209	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C8	80	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.0209	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C8	80	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.0209	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C9	81	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	35.8105	600	600	550	213	259.52	150	109.34	276.64	0.13
N+110.65	C9	81	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	35.8105	600	600	550	213	259.52	300	54.67	235.64	0.15
N+110.65	C9	81	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	35.8105	600	600	550	213	259.52	150	109.34	276.64	0.13
N+110.65	C9	81	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.698	600	600	550	213	259.52	150	109.34	276.64	0.49
N+110.65	C9	81	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.698	600	600	550	213	259.52	300	54.67	235.64	0.58
N+110.65	C9	81	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.698	600	600	550	213	259.52	150	109.34	276.64	0.49
N+110.65	C9	81	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.2801	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C9	81	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.2801	600	600	550	213	259.52	300	54.67	235.64	0.35

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C9	81	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.2801	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C9	81	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	79.7891	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C9	81	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	79.7891	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C9	81	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	79.7891	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C9	81	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	48.4215	600	600	550	213	259.52	150	109.34	276.64	0.18
N+110.65	C9	81	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	48.4215	600	600	550	213	259.52	300	54.67	235.64	0.21
N+110.65	C9	81	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	48.4215	600	600	550	213	259.52	150	109.34	276.64	0.18
N+110.65	C9	81	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	124.087	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C9	81	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	124.087	600	600	550	213	259.52	300	54.67	235.64	0.53
N+110.65	C9	81	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	124.087	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C9	81	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	81.8505	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C9	81	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	81.8505	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C9	81	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	81.8505	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C9	81	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	79.2729	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C9	81	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	79.2729	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C9	81	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	79.2729	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C10	82	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	33.9052	600	600	550	213	259.52	150	109.34	276.64	0.12
N+110.65	C10	82	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	33.9052	600	600	550	213	259.52	300	54.67	235.64	0.14
N+110.65	C10	82	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	33.9052	600	600	550	213	259.52	150	109.34	276.64	0.12
N+110.65	C10	82	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.703	600	600	550	213	259.52	150	109.34	276.64	0.50
N+110.65	C10	82	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.703	600	600	550	213	259.52	300	54.67	235.64	0.58
N+110.65	C10	82	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.703	600	600	550	213	259.52	150	109.34	276.64	0.50
N+110.65	C10	82	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	78.2599	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C10	82	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	78.2599	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C10	82	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	78.2599	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C10	82	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.6535	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C10	82	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.6535	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C10	82	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.6535	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C10	82	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	46.8799	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C10	82	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	46.8799	600	600	550	213	259.52	300	54.67	235.64	0.20
N+110.65	C10	82	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	46.8799	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C10	82	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	124.728	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C10	82	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	124.728	600	600	550	213	259.52	300	54.67	235.64	0.53
N+110.65	C10	82	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	124.728	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C10	82	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	78.8091	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C10	82	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	78.8091	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C10	82	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	78.8091	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C10	82	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.1043	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C10	82	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.1043	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C10	82	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.1043	600	600	550	213	259.52	150	109.34	276.64	0.30

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C11	83	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.7786	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C11	83	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.7786	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C11	83	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.7786	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C11	83	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.726	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C11	83	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.726	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C11	83	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.726	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C11	83	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.6969	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C11	83	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.6969	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C11	83	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	82.6969	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C11	83	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.7136	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C11	83	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.7136	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C11	83	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.7136	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C11	83	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	81.522	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C11	83	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	81.522	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C11	83	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	81.522	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C11	83	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	97.9825	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C11	83	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	97.9825	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C11	83	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	97.9825	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C11	83	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	81.199	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C11	83	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	81.199	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C11	83	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	81.199	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C11	83	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	72.2115	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C11	83	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	72.2115	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C11	83	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	72.2115	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C12	84	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	76.5294	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C12	84	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	76.5294	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C12	84	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	76.5294	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C12	84	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	101.089	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C12	84	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	101.089	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C12	84	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	101.089	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C12	84	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	20.7904	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C12	84	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	20.7904	600	600	550	213	259.52	300	54.67	235.64	0.09
N+110.65	C12	84	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	20.7904	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C12	84	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	93.9604	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C12	84	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	93.9604	600	600	550	213	259.52	300	54.67	235.64	0.40
N+110.65	C12	84	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	93.9604	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C12	84	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	79.5993	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C12	84	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	79.5993	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C12	84	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	79.5993	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C12	84	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.0186	600	600	550	213	259.52	150	109.34	276.64	0.35

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C12	84	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.0186	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C12	84	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.0186	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C12	84	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	23.8603	600	600	550	213	259.52	150	109.34	276.64	0.09
N+110.65	C12	84	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	23.8603	600	600	550	213	259.52	300	54.67	235.64	0.10
N+110.65	C12	84	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	23.8603	600	600	550	213	259.52	150	109.34	276.64	0.09
N+110.65	C12	84	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.265	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C12	84	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.265	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C12	84	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	82.265	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C13	85	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.515	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C13	85	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.515	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C13	85	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.515	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C13	85	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	61.2168	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C13	85	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	61.2168	600	600	550	213	259.52	300	54.67	235.64	0.26
N+110.65	C13	85	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	61.2168	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C13	85	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	123.455	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C13	85	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	123.455	600	600	550	213	259.52	300	54.67	235.64	0.52
N+110.65	C13	85	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	123.455	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C13	85	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	27.5058	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C13	85	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	27.5058	600	600	550	213	259.52	300	54.67	235.64	0.12
N+110.65	C13	85	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	27.5058	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C13	85	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	95.6027	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C13	85	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	95.6027	600	600	550	213	259.52	300	54.67	235.64	0.41
N+110.65	C13	85	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	95.6027	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C13	85	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	66.129	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C13	85	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	66.129	600	600	550	213	259.52	300	54.67	235.64	0.28
N+110.65	C13	85	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	66.129	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C13	85	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	104.585	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C13	85	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	104.585	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C13	85	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	104.585	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C13	85	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	13.2658	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C13	85	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	13.2658	600	600	550	213	259.52	300	54.67	235.64	0.06
N+110.65	C13	85	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	13.2658	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C14	86	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.201	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C14	86	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.201	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C14	86	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.201	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C14	86	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	79.8231	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C14	86	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	79.8231	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C14	86	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	79.8231	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C14	86	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	44.1692	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C14	86	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	44.1692	600	600	550	213	259.52	300	54.67	235.64	0.19

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C14	86	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	44.1692	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C14	86	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	127.726	600	600	550	213	259.52	150	109.34	276.64	0.46
N+110.65	C14	86	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	127.726	600	600	550	213	259.52	300	54.67	235.64	0.54
N+110.65	C14	86	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	127.726	600	600	550	213	259.52	150	109.34	276.64	0.46
N+110.65	C14	86	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	99.8747	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C14	86	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	99.8747	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C14	86	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	99.8747	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C14	86	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.9151	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C14	86	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.9151	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C14	86	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.9151	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C14	86	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	40.8426	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C14	86	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	40.8426	600	600	550	213	259.52	300	54.67	235.64	0.17
N+110.65	C14	86	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	40.8426	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C14	86	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	113.234	600	600	550	213	259.52	150	109.34	276.64	0.41
N+110.65	C14	86	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	113.234	600	600	550	213	259.52	300	54.67	235.64	0.48
N+110.65	C14	86	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	113.234	600	600	550	213	259.52	150	109.34	276.64	0.41
N+110.65	C17	89	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	104.903	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C17	89	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	104.903	600	600	550	213	259.52	300	54.67	235.64	0.45
N+110.65	C17	89	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	104.903	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C17	89	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	76.7525	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C17	89	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	76.7525	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C17	89	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	76.7525	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C17	89	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	116.099	600	600	550	213	259.52	150	109.34	276.64	0.42
N+110.65	C17	89	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	116.099	600	600	550	213	259.52	300	54.67	235.64	0.49
N+110.65	C17	89	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	116.099	600	600	550	213	259.52	150	109.34	276.64	0.42
N+110.65	C17	89	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	25.475	600	600	550	213	259.52	150	109.34	276.64	0.09
N+110.65	C17	89	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	25.475	600	600	550	213	259.52	300	54.67	235.64	0.11
N+110.65	C17	89	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	25.475	600	600	550	213	259.52	150	109.34	276.64	0.09
N+110.65	C17	89	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	101.385	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C17	89	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	101.385	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C17	89	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	101.385	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C17	89	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.2714	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C17	89	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.2714	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C17	89	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.2714	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C17	89	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	104.771	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C17	89	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	104.771	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C17	89	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	104.771	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C17	89	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	36.803	600	600	550	213	259.52	150	109.34	276.64	0.13
N+110.65	C17	89	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	36.803	600	600	550	213	259.52	300	54.67	235.64	0.16
N+110.65	C17	89	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	36.803	600	600	550	213	259.52	150	109.34	276.64	0.13

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C18	90	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	99.1935	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C18	90	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	99.1935	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C18	90	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	99.1935	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C18	90	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	90.5916	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C18	90	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	90.5916	600	600	550	213	259.52	300	54.67	235.64	0.38
N+110.65	C18	90	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	90.5916	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C18	90	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	48.8729	600	600	550	213	259.52	150	109.34	276.64	0.18
N+110.65	C18	90	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	48.8729	600	600	550	213	259.52	300	54.67	235.64	0.21
N+110.65	C18	90	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	48.8729	600	600	550	213	259.52	150	109.34	276.64	0.18
N+110.65	C18	90	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	122.985	600	600	550	213	259.52	150	109.34	276.64	0.44
N+110.65	C18	90	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	122.985	600	600	550	213	259.52	300	54.67	235.64	0.52
N+110.65	C18	90	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	122.985	600	600	550	213	259.52	150	109.34	276.64	0.44
N+110.65	C18	90	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	94.9061	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C18	90	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	94.9061	600	600	550	213	259.52	300	54.67	235.64	0.40
N+110.65	C18	90	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	94.9061	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C18	90	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	71.9328	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C18	90	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	71.9328	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C18	90	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	71.9328	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C18	90	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	44.5855	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C18	90	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	44.5855	600	600	550	213	259.52	300	54.67	235.64	0.19
N+110.65	C18	90	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	44.5855	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C18	90	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	104.326	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C18	90	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	104.326	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C18	90	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	104.326	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C19	91	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.053	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C19	91	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.053	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C19	91	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.053	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C19	91	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	99.4569	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C19	91	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	99.4569	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C19	91	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	99.4569	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C19	91	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.996	600	600	550	213	259.52	150	109.34	276.64	0.48
N+110.65	C19	91	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.996	600	600	550	213	259.52	300	54.67	235.64	0.56
N+110.65	C19	91	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.996	600	600	550	213	259.52	150	109.34	276.64	0.48
N+110.65	C19	91	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	46.7095	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C19	91	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	46.7095	600	600	550	213	259.52	300	54.67	235.64	0.20
N+110.65	C19	91	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	46.7095	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C19	91	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	78.7174	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C19	91	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	78.7174	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C19	91	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	78.7174	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C19	91	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	94.9772	600	600	550	213	259.52	150	109.34	276.64	0.34

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C19	91	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	94.9772	600	600	550	213	259.52	300	54.67	235.64	0.40
N+110.65	C19	91	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	94.9772	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C19	91	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	110.661	600	600	550	213	259.52	150	109.34	276.64	0.40
N+110.65	C19	91	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	110.661	600	600	550	213	259.52	300	54.67	235.64	0.47
N+110.65	C19	91	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	110.661	600	600	550	213	259.52	150	109.34	276.64	0.40
N+110.65	C19	91	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	42.2298	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C19	91	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	42.2298	600	600	550	213	259.52	300	54.67	235.64	0.18
N+110.65	C19	91	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	42.2298	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C20	92	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	75.8807	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C20	92	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	75.8807	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C20	92	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	75.8807	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C20	92	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.045	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C20	92	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.045	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C20	92	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.045	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C20	92	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	16.6349	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C20	92	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	16.6349	600	600	550	213	259.52	300	54.67	235.64	0.07
N+110.65	C20	92	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	16.6349	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C20	92	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	136.713	600	600	550	213	259.52	150	109.34	276.64	0.49
N+110.65	C20	92	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	136.713	600	600	550	213	259.52	300	54.67	235.64	0.58
N+110.65	C20	92	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	136.713	600	600	550	213	259.52	150	109.34	276.64	0.49
N+110.65	C20	92	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	79.1512	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C20	92	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	79.1512	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C20	92	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	79.1512	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C20	92	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.7741	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C20	92	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.7741	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C20	92	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.7741	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C20	92	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	19.9054	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C20	92	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	19.9054	600	600	550	213	259.52	300	54.67	235.64	0.08
N+110.65	C20	92	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	19.9054	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C20	92	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	119.231	600	600	550	213	259.52	150	109.34	276.64	0.43
N+110.65	C20	92	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	119.231	600	600	550	213	259.52	300	54.67	235.64	0.51
N+110.65	C20	92	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	119.231	600	600	550	213	259.52	150	109.34	276.64	0.43
N+110.65	C23	95	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	79.2931	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C23	95	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	79.2931	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C23	95	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	79.2931	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C23	95	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.36	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C23	95	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.36	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C23	95	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.36	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C23	95	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	123.244	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C23	95	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	123.244	600	600	550	213	259.52	300	54.67	235.64	0.52

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C23	95	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	123.244	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C23	95	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	42.4235	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C23	95	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	42.4235	600	600	550	213	259.52	300	54.67	235.64	0.18
N+110.65	C23	95	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	42.4235	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C23	95	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	77.5744	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C23	95	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	77.5744	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C23	95	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	77.5744	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C23	95	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.8194	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C23	95	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.8194	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C23	95	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	98.8194	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C23	95	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	108.976	600	600	550	213	259.52	150	109.34	276.64	0.39
N+110.65	C23	95	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	108.976	600	600	550	213	259.52	300	54.67	235.64	0.46
N+110.65	C23	95	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	108.976	600	600	550	213	259.52	150	109.34	276.64	0.39
N+110.65	C23	95	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	38.8827	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C23	95	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	38.8827	600	600	550	213	259.52	300	54.67	235.64	0.17
N+110.65	C23	95	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	38.8827	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C24	96	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	70.4292	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C24	96	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	70.4292	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C24	96	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	70.4292	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C24	96	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.635	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C24	96	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.635	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C24	96	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	100.635	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C24	96	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	39.0387	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C24	96	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	39.0387	600	600	550	213	259.52	300	54.67	235.64	0.17
N+110.65	C24	96	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	39.0387	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C24	96	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.599	600	600	550	213	259.52	150	109.34	276.64	0.48
N+110.65	C24	96	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.599	600	600	550	213	259.52	300	54.67	235.64	0.56
N+110.65	C24	96	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.599	600	600	550	213	259.52	150	109.34	276.64	0.48
N+110.65	C24	96	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	64.8111	600	600	550	213	259.52	150	109.34	276.64	0.23
N+110.65	C24	96	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	64.8111	600	600	550	213	259.52	300	54.67	235.64	0.28
N+110.65	C24	96	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	64.8111	600	600	550	213	259.52	150	109.34	276.64	0.23
N+110.65	C24	96	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	95.5174	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C24	96	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	95.5174	600	600	550	213	259.52	300	54.67	235.64	0.41
N+110.65	C24	96	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	95.5174	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C24	96	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	17.709	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C24	96	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	17.709	600	600	550	213	259.52	300	54.67	235.64	0.08
N+110.65	C24	96	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	17.709	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C24	96	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	110.269	600	600	550	213	259.52	150	109.34	276.64	0.40
N+110.65	C24	96	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	110.269	600	600	550	213	259.52	300	54.67	235.64	0.47
N+110.65	C24	96	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	110.269	600	600	550	213	259.52	150	109.34	276.64	0.40

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C25	97	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.147	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C25	97	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.147	600	600	550	213	259.52	300	54.67	235.64	0.43
N+110.65	C25	97	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	102.147	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C25	97	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.3918	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C25	97	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.3918	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C25	97	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.3918	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C25	97	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	91.2196	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C25	97	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	91.2196	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C25	97	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	91.2196	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C25	97	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	19.329	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C25	97	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	19.329	600	600	550	213	259.52	300	54.67	235.64	0.08
N+110.65	C25	97	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	19.329	600	600	550	213	259.52	150	109.34	276.64	0.07
N+110.65	C25	97	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	99.0525	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C25	97	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	99.0525	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C25	97	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	99.0525	600	600	550	213	259.52	150	109.34	276.64	0.36
N+110.65	C25	97	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.4862	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C25	97	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.4862	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C25	97	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.4862	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C25	97	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	79.4459	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C25	97	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	79.4459	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C25	97	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	79.4459	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C25	97	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	22.4234	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C25	97	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	22.4234	600	600	550	213	259.52	300	54.67	235.64	0.10
N+110.65	C25	97	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	22.4234	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C26	98	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	98.0691	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C26	98	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	98.0691	600	600	550	213	259.52	300	54.67	235.64	0.42
N+110.65	C26	98	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	98.0691	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C26	98	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.2095	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C26	98	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.2095	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C26	98	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.2095	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C26	98	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	60.9148	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C26	98	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	60.9148	600	600	550	213	259.52	300	54.67	235.64	0.26
N+110.65	C26	98	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	60.9148	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C26	98	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.4505	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C26	98	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.4505	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C26	98	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.4505	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C26	98	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	95.4617	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C26	98	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	95.4617	600	600	550	213	259.52	300	54.67	235.64	0.41
N+110.65	C26	98	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	95.4617	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C26	98	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.8169	600	600	550	213	259.52	150	109.34	276.64	0.29

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C26	98	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.8169	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C26	98	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.8169	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C26	98	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	62.9817	600	600	550	213	259.52	150	109.34	276.64	0.23
N+110.65	C26	98	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	62.9817	600	600	550	213	259.52	300	54.67	235.64	0.27
N+110.65	C26	98	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	62.9817	600	600	550	213	259.52	150	109.34	276.64	0.23
N+110.65	C26	98	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	75.3836	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C26	98	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	75.3836	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C26	98	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	75.3836	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C27	99	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.038	600	600	550	213	259.52	150	109.34	276.64	0.50
N+110.65	C27	99	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.038	600	600	550	213	259.52	300	54.67	235.64	0.58
N+110.65	C27	99	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.038	600	600	550	213	259.52	150	109.34	276.64	0.50
N+110.65	C27	99	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	30.6954	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C27	99	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	30.6954	600	600	550	213	259.52	300	54.67	235.64	0.13
N+110.65	C27	99	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	30.6954	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C27	99	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	79.2228	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C27	99	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	79.2228	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C27	99	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	79.2228	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C27	99	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.7306	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C27	99	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.7306	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C27	99	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	70.7306	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C27	99	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	123.746	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C27	99	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	123.746	600	600	550	213	259.52	300	54.67	235.64	0.53
N+110.65	C27	99	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	123.746	600	600	550	213	259.52	150	109.34	276.64	0.45
N+110.65	C27	99	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	43.9882	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C27	99	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	43.9882	600	600	550	213	259.52	300	54.67	235.64	0.19
N+110.65	C27	99	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	43.9882	600	600	550	213	259.52	150	109.34	276.64	0.16
N+110.65	C27	99	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.6904	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C27	99	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.6904	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C27	99	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.6904	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C27	99	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	70.8677	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C27	99	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	70.8677	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C27	99	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	70.8677	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C28	100	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	135.908	600	600	550	213	259.52	150	109.34	276.64	0.49
N+110.65	C28	100	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	135.908	600	600	550	213	259.52	300	54.67	235.64	0.58
N+110.65	C28	100	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	135.908	600	600	550	213	259.52	150	109.34	276.64	0.49
N+110.65	C28	100	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	32.9829	600	600	550	213	259.52	150	109.34	276.64	0.12
N+110.65	C28	100	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	32.9829	600	600	550	213	259.52	300	54.67	235.64	0.14
N+110.65	C28	100	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	32.9829	600	600	550	213	259.52	150	109.34	276.64	0.12
N+110.65	C28	100	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.7267	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C28	100	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.7267	600	600	550	213	259.52	300	54.67	235.64	0.33

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C28	100	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.7267	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C28	100	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	72.14	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C28	100	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	72.14	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C28	100	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	72.14	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C28	100	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	123.042	600	600	550	213	259.52	150	109.34	276.64	0.44
N+110.65	C28	100	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	123.042	600	600	550	213	259.52	300	54.67	235.64	0.52
N+110.65	C28	100	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	123.042	600	600	550	213	259.52	150	109.34	276.64	0.44
N+110.65	C28	100	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	45.8485	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C28	100	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	45.8485	600	600	550	213	259.52	300	54.67	235.64	0.19
N+110.65	C28	100	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	45.8485	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C28	100	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	70.8663	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C28	100	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	70.8663	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C28	100	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	70.8663	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C28	100	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.958	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C28	100	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.958	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C28	100	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.958	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C29	101	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	95.0947	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C29	101	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	95.0947	600	600	550	213	259.52	300	54.67	235.64	0.40
N+110.65	C29	101	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	95.0947	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C29	101	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.3728	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C29	101	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.3728	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C29	101	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	77.3728	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C29	101	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	74.7179	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C29	101	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	74.7179	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C29	101	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	74.7179	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C29	101	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	61.2841	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C29	101	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	61.2841	600	600	550	213	259.52	300	54.67	235.64	0.26
N+110.65	C29	101	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	61.2841	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C29	101	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	92.8795	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C29	101	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	92.8795	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C29	101	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	92.8795	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C29	101	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.588	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C29	101	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.588	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C29	101	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	79.588	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C29	101	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	73.0386	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C29	101	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	73.0386	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C29	101	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	73.0386	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C29	101	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	62.9633	600	600	550	213	259.52	150	109.34	276.64	0.23
N+110.65	C29	101	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	62.9633	600	600	550	213	259.52	300	54.67	235.64	0.27
N+110.65	C29	101	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	62.9633	600	600	550	213	259.52	150	109.34	276.64	0.23

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C30	102	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	95.758	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C30	102	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	95.758	600	600	550	213	259.52	300	54.67	235.64	0.41
N+110.65	C30	102	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	95.758	600	600	550	213	259.52	150	109.34	276.64	0.35
N+110.65	C30	102	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.684	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C30	102	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.684	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C30	102	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	78.684	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C30	102	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	41.8079	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C30	102	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	41.8079	600	600	550	213	259.52	300	54.67	235.64	0.18
N+110.65	C30	102	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	41.8079	600	600	550	213	259.52	150	109.34	276.64	0.15
N+110.65	C30	102	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	91.3618	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C30	102	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	91.3618	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C30	102	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	91.3618	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C30	102	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	93.6238	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C30	102	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	93.6238	600	600	550	213	259.52	300	54.67	235.64	0.40
N+110.65	C30	102	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	93.6238	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C30	102	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.8182	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C30	102	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.8182	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C30	102	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	80.8182	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C30	102	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	39.6736	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C30	102	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	39.6736	600	600	550	213	259.52	300	54.67	235.64	0.17
N+110.65	C30	102	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	39.6736	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C30	102	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	79.5454	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C30	102	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	79.5454	600	600	550	213	259.52	300	54.67	235.64	0.34
N+110.65	C30	102	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	79.5454	600	600	550	213	259.52	150	109.34	276.64	0.29
N+110.65	C31	103	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	47.3731	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C31	103	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	47.3731	600	600	550	213	259.52	300	54.67	235.64	0.20
N+110.65	C31	103	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	47.3731	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C31	103	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	91.9909	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C31	103	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	91.9909	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C31	103	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	91.9909	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C31	103	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	76.6887	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C31	103	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	76.6887	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C31	103	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	76.6887	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C31	103	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	54.5465	600	600	550	213	259.52	150	109.34	276.64	0.20
N+110.65	C31	103	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	54.5465	600	600	550	213	259.52	300	54.67	235.64	0.23
N+110.65	C31	103	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	54.5465	600	600	550	213	259.52	150	109.34	276.64	0.20
N+110.65	C31	103	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	38.7944	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C31	103	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	38.7944	600	600	550	213	259.52	300	54.67	235.64	0.16
N+110.65	C31	103	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	38.7944	600	600	550	213	259.52	150	109.34	276.64	0.14
N+110.65	C31	103	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	83.4399	600	600	550	213	259.52	150	109.34	276.64	0.30

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C31	103	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	83.4399	600	600	550	213	259.52	300	54.67	235.64	0.35
N+110.65	C31	103	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	83.4399	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C31	103	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	68.1101	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C31	103	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	68.1101	600	600	550	213	259.52	300	54.67	235.64	0.29
N+110.65	C31	103	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	68.1101	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C31	103	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	45.9955	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C31	103	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	45.9955	600	600	550	213	259.52	300	54.67	235.64	0.20
N+110.65	C31	103	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	45.9955	600	600	550	213	259.52	150	109.34	276.64	0.17
N+110.65	C32	104	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	14.1021	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C32	104	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	14.1021	600	600	550	213	259.52	300	54.67	235.64	0.06
N+110.65	C32	104	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	14.1021	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C32	104	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.919	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C32	104	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.919	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C32	104	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.919	600	600	550	213	259.52	150	109.34	276.64	0.38
N+110.65	C32	104	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	59.1331	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C32	104	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	59.1331	600	600	550	213	259.52	300	54.67	235.64	0.25
N+110.65	C32	104	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	59.1331	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C32	104	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	75.0489	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C32	104	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	75.0489	600	600	550	213	259.52	300	54.67	235.64	0.32
N+110.65	C32	104	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	75.0489	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C32	104	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	22.4367	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C32	104	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	22.4367	600	600	550	213	259.52	300	54.67	235.64	0.10
N+110.65	C32	104	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	22.4367	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C32	104	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	92.2784	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C32	104	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	92.2784	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C32	104	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	92.2784	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C32	104	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	61.1226	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C32	104	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	61.1226	600	600	550	213	259.52	300	54.67	235.64	0.26
N+110.65	C32	104	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	61.1226	600	600	550	213	259.52	150	109.34	276.64	0.22
N+110.65	C32	104	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	73.0595	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C32	104	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	73.0595	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C32	104	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	73.0595	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C33	105	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	26.9573	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C33	105	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	26.9573	600	600	550	213	259.52	300	54.67	235.64	0.11
N+110.65	C33	105	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	26.9573	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C33	105	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	127.363	600	600	550	213	259.52	150	109.34	276.64	0.46
N+110.65	C33	105	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	127.363	600	600	550	213	259.52	300	54.67	235.64	0.54
N+110.65	C33	105	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	127.363	600	600	550	213	259.52	150	109.34	276.64	0.46
N+110.65	C33	105	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	66.6835	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C33	105	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	66.6835	600	600	550	213	259.52	300	54.67	235.64	0.28

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C33	105	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	66.6835	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C33	105	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	87.5131	600	600	550	213	259.52	150	109.34	276.64	0.32
N+110.65	C33	105	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	87.5131	600	600	550	213	259.52	300	54.67	235.64	0.37
N+110.65	C33	105	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	87.5131	600	600	550	213	259.52	150	109.34	276.64	0.32
N+110.65	C33	105	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	25.8412	600	600	550	213	259.52	150	109.34	276.64	0.09
N+110.65	C33	105	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	25.8412	600	600	550	213	259.52	300	54.67	235.64	0.11
N+110.65	C33	105	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	25.8412	600	600	550	213	259.52	150	109.34	276.64	0.09
N+110.65	C33	105	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	110.973	600	600	550	213	259.52	150	109.34	276.64	0.40
N+110.65	C33	105	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	110.973	600	600	550	213	259.52	300	54.67	235.64	0.47
N+110.65	C33	105	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	110.973	600	600	550	213	259.52	150	109.34	276.64	0.40
N+110.65	C33	105	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	65.5674	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C33	105	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	65.5674	600	600	550	213	259.52	300	54.67	235.64	0.28
N+110.65	C33	105	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	65.5674	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C33	105	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.1241	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C33	105	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.1241	600	600	550	213	259.52	300	54.67	235.64	0.30
N+110.65	C33	105	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	71.1241	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C34	106	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	17.0032	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C34	106	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	17.0032	600	600	550	213	259.52	300	54.67	235.64	0.07
N+110.65	C34	106	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	17.0032	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C34	106	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	126.541	600	600	550	213	259.52	150	109.34	276.64	0.46
N+110.65	C34	106	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	126.541	600	600	550	213	259.52	300	54.67	235.64	0.54
N+110.65	C34	106	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	126.541	600	600	550	213	259.52	150	109.34	276.64	0.46
N+110.65	C34	106	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	58.021	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C34	106	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	58.021	600	600	550	213	259.52	300	54.67	235.64	0.25
N+110.65	C34	106	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	58.021	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C34	106	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	84.3857	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C34	106	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	84.3857	600	600	550	213	259.52	300	54.67	235.64	0.36
N+110.65	C34	106	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	84.3857	600	600	550	213	259.52	150	109.34	276.64	0.31
N+110.65	C34	106	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	17.6957	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C34	106	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	17.6957	600	600	550	213	259.52	300	54.67	235.64	0.08
N+110.65	C34	106	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	17.6957	600	600	550	213	259.52	150	109.34	276.64	0.06
N+110.65	C34	106	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	110.198	600	600	550	213	259.52	150	109.34	276.64	0.40
N+110.65	C34	106	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	110.198	600	600	550	213	259.52	300	54.67	235.64	0.47
N+110.65	C34	106	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	110.198	600	600	550	213	259.52	150	109.34	276.64	0.40
N+110.65	C34	106	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	58.7135	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C34	106	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	58.7135	600	600	550	213	259.52	300	54.67	235.64	0.25
N+110.65	C34	106	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	58.7135	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C34	106	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	68.0427	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C34	106	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	68.0427	600	600	550	213	259.52	300	54.67	235.64	0.29
N+110.65	C34	106	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	68.0427	600	600	550	213	259.52	150	109.34	276.64	0.25

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C35	107	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	30.2542	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C35	107	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	30.2542	600	600	550	213	259.52	300	54.67	235.64	0.13
N+110.65	C35	107	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	30.2542	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C35	107	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.479	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C35	107	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.479	600	600	550	213	259.52	300	54.67	235.64	0.44
N+110.65	C35	107	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	103.479	600	600	550	213	259.52	150	109.34	276.64	0.37
N+110.65	C35	107	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	74.039	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C35	107	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	74.039	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C35	107	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	74.039	600	600	550	213	259.52	150	109.34	276.64	0.27
N+110.65	C35	107	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	65.2295	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C35	107	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	65.2295	600	600	550	213	259.52	300	54.67	235.64	0.28
N+110.65	C35	107	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	65.2295	600	600	550	213	259.52	150	109.34	276.64	0.24
N+110.65	C35	107	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	28.1255	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C35	107	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	28.1255	600	600	550	213	259.52	300	54.67	235.64	0.12
N+110.65	C35	107	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	28.1255	600	600	550	213	259.52	150	109.34	276.64	0.10
N+110.65	C35	107	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	91.7622	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C35	107	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	91.7622	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C35	107	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	91.7622	600	600	550	213	259.52	150	109.34	276.64	0.33
N+110.65	C35	107	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.9103	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C35	107	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.9103	600	600	550	213	259.52	300	54.67	235.64	0.31
N+110.65	C35	107	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	71.9103	600	600	550	213	259.52	150	109.34	276.64	0.26
N+110.65	C35	107	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	59.138	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C35	107	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	59.138	600	600	550	213	259.52	300	54.67	235.64	0.25
N+110.65	C35	107	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	59.138	600	600	550	213	259.52	150	109.34	276.64	0.21
N+110.65	C36	108	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	21.5284	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C36	108	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	21.5284	600	600	550	213	259.52	300	54.67	235.64	0.09
N+110.65	C36	108	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	21.5284	600	600	550	213	259.52	150	109.34	276.64	0.08
N+110.65	C36	108	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	92.8327	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C36	108	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	92.8327	600	600	550	213	259.52	300	54.67	235.64	0.39
N+110.65	C36	108	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	92.8327	600	600	550	213	259.52	150	109.34	276.64	0.34
N+110.65	C36	108	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	14.3259	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C36	108	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	14.3259	600	600	550	213	259.52	300	54.67	235.64	0.06
N+110.65	C36	108	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	14.3259	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C36	108	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.3123	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C36	108	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.3123	600	600	550	213	259.52	300	54.67	235.64	0.33
N+110.65	C36	108	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	77.3123	600	600	550	213	259.52	150	109.34	276.64	0.28
N+110.65	C36	108	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	29.3052	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C36	108	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	29.3052	600	600	550	213	259.52	300	54.67	235.64	0.12
N+110.65	C36	108	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	29.3052	600	600	550	213	259.52	150	109.34	276.64	0.11
N+110.65	C36	108	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	83.7574	600	600	550	213	259.52	150	109.34	276.64	0.30

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+110.65	C36	108	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	83.7574	600	600	550	213	259.52	300	54.67	235.64	0.36
N+110.65	C36	108	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	83.7574	600	600	550	213	259.52	150	109.34	276.64	0.30
N+110.65	C36	108	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	14.866	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C36	108	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	14.866	600	600	550	213	259.52	300	54.67	235.64	0.06
N+110.65	C36	108	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	14.866	600	600	550	213	259.52	150	109.34	276.64	0.05
N+110.65	C36	108	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	68.3914	600	600	550	213	259.52	150	109.34	276.64	0.25
N+110.65	C36	108	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	68.3914	600	600	550	213	259.52	300	54.67	235.64	0.29
N+110.65	C36	108	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	68.3914	600	600	550	213	259.52	150	109.34	276.64	0.25
N+106.8	C1	37	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.312	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C1	37	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.312	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C1	37	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.312	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C1	37	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.471	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C1	37	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.471	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C1	37	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.471	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C1	37	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	193.627	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C1	37	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	193.627	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C1	37	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	193.627	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C1	37	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	140.742	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C1	37	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	140.742	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C1	37	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	140.742	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C1	37	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	186.207	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C1	37	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	186.207	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C1	37	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	186.207	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C1	37	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	143.576	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C1	37	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	143.576	900	900	850	213	601.61	300	84.49	514.58	0.28
N+106.8	C1	37	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	143.576	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C1	37	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	187.016	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C1	37	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	187.016	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C1	37	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	187.016	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C1	37	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	147.353	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C1	37	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	147.353	900	900	850	213	601.61	300	84.49	514.58	0.29
N+106.8	C1	37	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	147.353	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C2	38	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.453	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C2	38	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.453	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C2	38	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.453	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C2	38	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	133.07	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C2	38	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	133.07	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C2	38	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	133.07	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C2	38	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	212.059	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C2	38	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	212.059	900	900	850	213	601.61	300	84.49	514.58	0.41

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C2	38	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	212.059	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C2	38	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	224.049	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C2	38	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	224.049	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C2	38	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	224.049	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C2	38	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	183.28	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C2	38	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	183.28	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C2	38	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	183.28	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C2	38	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	140.243	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C2	38	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	140.243	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C2	38	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	140.243	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C2	38	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	213.558	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C2	38	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	213.558	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C2	38	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	213.558	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C2	38	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.55	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C2	38	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.55	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C2	38	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.55	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C3	39	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	181.15	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C3	39	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	181.15	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C3	39	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	181.15	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C3	39	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	147.999	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C3	39	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	147.999	900	900	850	213	601.61	300	84.49	514.58	0.29
N+106.8	C3	39	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	147.999	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C3	39	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.721	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C3	39	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.721	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C3	39	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.721	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C3	39	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	213.153	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C3	39	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	213.153	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C3	39	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	213.153	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C3	39	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	177.006	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C3	39	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	177.006	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C3	39	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	177.006	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C3	39	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	152.143	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C3	39	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	152.143	900	900	850	213	601.61	300	84.49	514.58	0.30
N+106.8	C3	39	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	152.143	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C3	39	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	211.9	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C3	39	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	211.9	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C3	39	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	211.9	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C3	39	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	212.974	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C3	39	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	212.974	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C3	39	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	212.974	900	900	850	213	601.61	150	168.98	577.94	0.37

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C4	40	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	180.395	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C4	40	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	180.395	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C4	40	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	180.395	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C4	40	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	146.483	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C4	40	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	146.483	900	900	850	213	601.61	300	84.49	514.58	0.28
N+106.8	C4	40	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	146.483	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C4	40	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.164	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C4	40	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.164	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C4	40	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.164	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C4	40	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.913	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C4	40	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.913	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C4	40	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	211.913	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C4	40	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	176.156	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C4	40	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	176.156	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C4	40	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	176.156	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C4	40	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	150.722	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C4	40	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	150.722	900	900	850	213	601.61	300	84.49	514.58	0.29
N+106.8	C4	40	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	150.722	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C4	40	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	211.258	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C4	40	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	211.258	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C4	40	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	211.258	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C4	40	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	211.819	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C4	40	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	211.819	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C4	40	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	211.819	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C5	41	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.563	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C5	41	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.563	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C5	41	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.563	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C5	41	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	134.113	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C5	41	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	134.113	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C5	41	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	134.113	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C5	41	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	224.473	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C5	41	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	224.473	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C5	41	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	224.473	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C5	41	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	212.269	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C5	41	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	212.269	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C5	41	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	212.269	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C5	41	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	183.506	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C5	41	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	183.506	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C5	41	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	183.506	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C5	41	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	141.169	900	900	850	213	601.61	150	168.98	577.94	0.24

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C5	41	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	141.169	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C5	41	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	141.169	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C5	41	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	222.948	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C5	41	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	222.948	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C5	41	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	222.948	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C5	41	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	213.794	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C5	41	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	213.794	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C5	41	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	213.794	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C6	42	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	194.415	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C6	42	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	194.415	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C6	42	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	194.415	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C6	42	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.079	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C6	42	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.079	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C6	42	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	136.079	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C6	42	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	139.625	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C6	42	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	139.625	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C6	42	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	139.625	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C6	42	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.22	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C6	42	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.22	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C6	42	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.22	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C6	42	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	187.123	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C6	42	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	187.123	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C6	42	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	187.123	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C6	42	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	143.371	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C6	42	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	143.371	900	900	850	213	601.61	300	84.49	514.58	0.28
N+106.8	C6	42	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	143.371	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C6	42	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	146.824	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C6	42	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	146.824	900	900	850	213	601.61	300	84.49	514.58	0.29
N+106.8	C6	42	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	146.824	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C6	42	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	190.02	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C6	42	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	190.02	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C6	42	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	190.02	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C7	43	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	204.494	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C7	43	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	204.494	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C7	43	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	204.494	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C7	43	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	229.955	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C7	43	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	229.955	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C7	43	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	229.955	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C7	43	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	190.065	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C7	43	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	190.065	900	900	850	213	601.61	300	84.49	514.58	0.37

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C7	43	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	190.065	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C7	43	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	136.325	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C7	43	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	136.325	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C7	43	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	136.325	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C7	43	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	207.677	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C7	43	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	207.677	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C7	43	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	207.677	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C7	43	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226.773	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C7	43	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226.773	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C7	43	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226.773	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C7	43	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	183.347	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C7	43	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	183.347	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C7	43	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	183.347	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C7	43	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	143.042	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C7	43	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	143.042	900	900	850	213	601.61	300	84.49	514.58	0.28
N+106.8	C7	43	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	143.042	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C8	44	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.406	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C8	44	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.406	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C8	44	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.406	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C8	44	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	214.195	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C8	44	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	214.195	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C8	44	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	214.195	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C8	44	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	226.376	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C8	44	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	226.376	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C8	44	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	226.376	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C8	44	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	205.026	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C8	44	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	205.026	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C8	44	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	205.026	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C8	44	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	217.88	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C8	44	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	217.88	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C8	44	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	217.88	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C8	44	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	214.722	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C8	44	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	214.722	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C8	44	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	214.722	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C8	44	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	223.707	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C8	44	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	223.707	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C8	44	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	223.707	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C8	44	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	207.695	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C8	44	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	207.695	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C8	44	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	207.695	900	900	850	213	601.61	150	168.98	577.94	0.36

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C9	45	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	302.61	900	900	850	213	601.61	150	168.98	577.94	0.52
N+106.8	C9	45	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	302.61	900	900	850	213	601.61	300	84.49	514.58	0.59
N+106.8	C9	45	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	302.61	900	900	850	213	601.61	150	168.98	577.94	0.52
N+106.8	C9	45	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	162.768	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C9	45	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	162.768	900	900	850	213	601.61	300	84.49	514.58	0.32
N+106.8	C9	45	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	162.768	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C9	45	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	223.885	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C9	45	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	223.885	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C9	45	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	223.885	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C9	45	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	222.518	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C9	45	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	222.518	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C9	45	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	222.518	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C9	45	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	285.13	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C9	45	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	285.13	900	900	850	213	601.61	300	84.49	514.58	0.55
N+106.8	C9	45	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	285.13	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C9	45	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	180.248	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C9	45	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	180.248	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C9	45	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	180.248	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C9	45	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	223.714	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C9	45	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	223.714	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C9	45	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	223.714	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C9	45	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.689	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C9	45	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.689	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C9	45	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.689	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C10	46	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	300.59	900	900	850	213	601.61	150	168.98	577.94	0.52
N+106.8	C10	46	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	300.59	900	900	850	213	601.61	300	84.49	514.58	0.58
N+106.8	C10	46	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	300.59	900	900	850	213	601.61	150	168.98	577.94	0.52
N+106.8	C10	46	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	162.132	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C10	46	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	162.132	900	900	850	213	601.61	300	84.49	514.58	0.32
N+106.8	C10	46	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	162.132	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C10	46	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	222.365	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C10	46	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	222.365	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C10	46	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	222.365	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C10	46	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	223.078	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C10	46	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	223.078	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C10	46	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	223.078	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C10	46	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	283.283	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C10	46	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	283.283	900	900	850	213	601.61	300	84.49	514.58	0.55
N+106.8	C10	46	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	283.283	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C10	46	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	179.44	900	900	850	213	601.61	150	168.98	577.94	0.31

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C10	46	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	179.44	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C10	46	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	179.44	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C10	46	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	222.454	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C10	46	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	222.454	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C10	46	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	222.454	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C10	46	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.989	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C10	46	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.989	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C10	46	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.989	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C11	47	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	219.908	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C11	47	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	219.908	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C11	47	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	219.908	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C11	47	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	214.442	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C11	47	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	214.442	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C11	47	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	214.442	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C11	47	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	202.836	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C11	47	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	202.836	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C11	47	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	202.836	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C11	47	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	225.136	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C11	47	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	225.136	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C11	47	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	225.136	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C11	47	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	219.225	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C11	47	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	219.225	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C11	47	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	219.225	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C11	47	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	215.125	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C11	47	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	215.125	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C11	47	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	215.125	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C11	47	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	205.623	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C11	47	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	205.623	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C11	47	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	205.623	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C11	47	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.348	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C11	47	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.348	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C11	47	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	222.348	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C12	48	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	202.502	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C12	48	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	202.502	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C12	48	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	202.502	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C12	48	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	229.626	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C12	48	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	229.626	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C12	48	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	229.626	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C12	48	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	135.306	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C12	48	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	135.306	900	900	850	213	601.61	300	84.49	514.58	0.26

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C12	48	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	135.306	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C12	48	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	186.648	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C12	48	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	186.648	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C12	48	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	186.648	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C12	48	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	205.893	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C12	48	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	205.893	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C12	48	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	205.893	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C12	48	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226.236	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C12	48	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226.236	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C12	48	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226.236	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C12	48	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	141.724	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C12	48	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	141.724	900	900	850	213	601.61	300	84.49	514.58	0.28
N+106.8	C12	48	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	141.724	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C12	48	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	180.231	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C12	48	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	180.231	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C12	48	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	180.231	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C13	49	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.474	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C13	49	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.474	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C13	49	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.474	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C13	49	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	177.109	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C13	49	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	177.109	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C13	49	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	177.109	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C13	49	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	176.706	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C13	49	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	176.706	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C13	49	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	176.706	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C13	49	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	130.014	900	900	850	213	601.61	150	168.98	577.94	0.22
N+106.8	C13	49	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	130.014	900	900	850	213	601.61	300	84.49	514.58	0.25
N+106.8	C13	49	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	130.014	900	900	850	213	601.61	150	168.98	577.94	0.22
N+106.8	C13	49	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	225.553	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C13	49	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	225.553	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C13	49	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	225.553	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C13	49	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	184.03	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C13	49	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	184.03	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C13	49	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	184.03	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C13	49	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	170.869	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C13	49	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	170.869	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C13	49	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	170.869	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C13	49	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	135.85	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C13	49	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	135.85	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C13	49	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	135.85	900	900	850	213	601.61	150	168.98	577.94	0.24

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C14	50	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	242.388	900	900	850	213	601.61	150	168.98	577.94	0.42
N+106.8	C14	50	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	242.388	900	900	850	213	601.61	300	84.49	514.58	0.47
N+106.8	C14	50	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	242.388	900	900	850	213	601.61	150	168.98	577.94	0.42
N+106.8	C14	50	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	195.663	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C14	50	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	195.663	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C14	50	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	195.663	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C14	50	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	285.406	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C14	50	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	285.406	900	900	850	213	601.61	300	84.49	514.58	0.55
N+106.8	C14	50	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	285.406	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C14	50	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	153.664	900	900	850	213	601.61	150	168.98	577.94	0.27
N+106.8	C14	50	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	153.664	900	900	850	213	601.61	300	84.49	514.58	0.30
N+106.8	C14	50	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	153.664	900	900	850	213	601.61	150	168.98	577.94	0.27
N+106.8	C14	50	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	236.547	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C14	50	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	236.547	900	900	850	213	601.61	300	84.49	514.58	0.46
N+106.8	C14	50	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	236.547	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C14	50	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	201.504	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C14	50	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	201.504	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C14	50	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	201.504	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C14	50	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	268.938	900	900	850	213	601.61	150	168.98	577.94	0.47
N+106.8	C14	50	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	268.938	900	900	850	213	601.61	300	84.49	514.58	0.52
N+106.8	C14	50	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	268.938	900	900	850	213	601.61	150	168.98	577.94	0.47
N+106.8	C14	50	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	170.132	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C14	50	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	170.132	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C14	50	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	170.132	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C15	51	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.473	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C15	51	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.473	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C15	51	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.473	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C15	51	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	291.098	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C15	51	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	291.098	900	900	850	213	601.61	300	84.49	514.58	0.57
N+106.8	C15	51	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	291.098	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C15	51	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.046	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C15	51	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.046	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C15	51	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.046	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C15	51	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	282.441	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C15	51	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	282.441	900	900	850	213	601.61	300	84.49	514.58	0.55
N+106.8	C15	51	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	282.441	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C15	51	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	200.426	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C15	51	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	200.426	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C15	51	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	200.426	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C15	51	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	278.145	900	900	850	213	601.61	150	168.98	577.94	0.48

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C15	51	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	278.145	900	900	850	213	601.61	300	84.49	514.58	0.54
N+106.8	C15	51	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	278.145	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C15	51	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	190.22	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C15	51	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	190.22	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C15	51	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	190.22	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C15	51	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	269.267	900	900	850	213	601.61	150	168.98	577.94	0.47
N+106.8	C15	51	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	269.267	900	900	850	213	601.61	300	84.49	514.58	0.52
N+106.8	C15	51	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	269.267	900	900	850	213	601.61	150	168.98	577.94	0.47
N+106.8	C16	52	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	188.771	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C16	52	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	188.771	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C16	52	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	188.771	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C16	52	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	290.079	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C16	52	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	290.079	900	900	850	213	601.61	300	84.49	514.58	0.56
N+106.8	C16	52	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	290.079	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C16	52	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	290.461	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C16	52	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	290.461	900	900	850	213	601.61	300	84.49	514.58	0.56
N+106.8	C16	52	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	290.461	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C16	52	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.487	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C16	52	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.487	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C16	52	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.487	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C16	52	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	201.435	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C16	52	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	201.435	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C16	52	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	201.435	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C16	52	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	277.416	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C16	52	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	277.416	900	900	850	213	601.61	300	84.49	514.58	0.54
N+106.8	C16	52	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	277.416	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C16	52	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	275.339	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C16	52	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	275.339	900	900	850	213	601.61	300	84.49	514.58	0.54
N+106.8	C16	52	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	275.339	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C16	52	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	184.608	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C16	52	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	184.608	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C16	52	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	184.608	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C17	53	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	244.544	900	900	850	213	601.61	150	168.98	577.94	0.42
N+106.8	C17	53	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	244.544	900	900	850	213	601.61	300	84.49	514.58	0.48
N+106.8	C17	53	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	244.544	900	900	850	213	601.61	150	168.98	577.94	0.42
N+106.8	C17	53	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	195.503	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C17	53	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	195.503	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C17	53	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	195.503	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C17	53	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.077	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C17	53	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.077	900	900	850	213	601.61	300	84.49	514.58	0.25

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C17	53	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	131.077	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C17	53	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	309.075	900	900	850	213	601.61	150	168.98	577.94	0.53
N+106.8	C17	53	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	309.075	900	900	850	213	601.61	300	84.49	514.58	0.60
N+106.8	C17	53	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	309.075	900	900	850	213	601.61	150	168.98	577.94	0.53
N+106.8	C17	53	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	238.414	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C17	53	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	238.414	900	900	850	213	601.61	300	84.49	514.58	0.46
N+106.8	C17	53	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	238.414	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C17	53	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	201.633	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C17	53	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	201.633	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C17	53	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	201.633	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C17	53	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	153.327	900	900	850	213	601.61	150	168.98	577.94	0.27
N+106.8	C17	53	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	153.327	900	900	850	213	601.61	300	84.49	514.58	0.30
N+106.8	C17	53	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	153.327	900	900	850	213	601.61	150	168.98	577.94	0.27
N+106.8	C17	53	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	286.825	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C17	53	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	286.825	900	900	850	213	601.61	300	84.49	514.58	0.56
N+106.8	C17	53	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	286.825	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C18	54	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.473	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C18	54	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.473	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C18	54	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.473	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C18	54	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	180.925	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C18	54	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	180.925	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C18	54	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	180.925	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C18	54	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	135.393	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C18	54	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	135.393	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C18	54	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	135.393	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C18	54	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	174.015	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C18	54	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	174.015	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C18	54	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	174.015	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C18	54	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	226.029	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C18	54	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	226.029	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C18	54	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	226.029	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C18	54	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	187.368	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C18	54	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	187.368	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C18	54	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	187.368	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C18	54	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	140.22	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C18	54	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	140.22	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C18	54	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	140.22	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C18	54	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	169.187	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C18	54	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	169.187	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C18	54	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	169.187	900	900	850	213	601.61	150	168.98	577.94	0.29

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C19	55	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.176	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C19	55	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.176	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C19	55	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.176	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C19	55	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.832	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C19	55	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.832	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C19	55	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	232.832	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C19	55	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	200.487	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C19	55	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	200.487	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C19	55	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	200.487	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C19	55	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	103.464	900	900	850	213	601.61	150	168.98	577.94	0.18
N+106.8	C19	55	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	103.464	900	900	850	213	601.61	300	84.49	514.58	0.20
N+106.8	C19	55	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	103.464	900	900	850	213	601.61	150	168.98	577.94	0.18
N+106.8	C19	55	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	185.008	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C19	55	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	185.008	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C19	55	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	185.008	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C19	55	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C19	55	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C19	55	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	226	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C19	55	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	187.481	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C19	55	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	187.481	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C19	55	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	187.481	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C19	55	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	109.448	900	900	850	213	601.61	150	168.98	577.94	0.19
N+106.8	C19	55	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	109.448	900	900	850	213	601.61	300	84.49	514.58	0.21
N+106.8	C19	55	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	109.448	900	900	850	213	601.61	150	168.98	577.94	0.19
N+106.8	C20	56	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	196.752	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C20	56	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	196.752	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C20	56	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	196.752	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C20	56	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	241.791	900	900	850	213	601.61	150	168.98	577.94	0.42
N+106.8	C20	56	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	241.791	900	900	850	213	601.61	300	84.49	514.58	0.47
N+106.8	C20	56	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	241.791	900	900	850	213	601.61	150	168.98	577.94	0.42
N+106.8	C20	56	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	246.314	900	900	850	213	601.61	150	168.98	577.94	0.43
N+106.8	C20	56	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	246.314	900	900	850	213	601.61	300	84.49	514.58	0.48
N+106.8	C20	56	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	246.314	900	900	850	213	601.61	150	168.98	577.94	0.43
N+106.8	C20	56	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	178.324	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C20	56	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	178.324	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C20	56	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	178.324	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C20	56	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	202.382	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C20	56	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	202.382	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C20	56	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	202.382	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C20	56	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	236.161	900	900	850	213	601.61	150	168.98	577.94	0.41

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C20	56	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	236.161	900	900	850	213	601.61	300	84.49	514.58	0.46
N+106.8	C20	56	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	236.161	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C20	56	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	237.815	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C20	56	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	237.815	900	900	850	213	601.61	300	84.49	514.58	0.46
N+106.8	C20	56	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	237.815	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C20	56	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	186.823	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C20	56	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	186.823	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C20	56	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	186.823	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C21	57	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	291.787	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C21	57	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	291.787	900	900	850	213	601.61	300	84.49	514.58	0.57
N+106.8	C21	57	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	291.787	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C21	57	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.548	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C21	57	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.548	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C21	57	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.548	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C21	57	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	174.832	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C21	57	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	174.832	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C21	57	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	174.832	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C21	57	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	271.836	900	900	850	213	601.61	150	168.98	577.94	0.47
N+106.8	C21	57	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	271.836	900	900	850	213	601.61	300	84.49	514.58	0.53
N+106.8	C21	57	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	271.836	900	900	850	213	601.61	150	168.98	577.94	0.47
N+106.8	C21	57	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	278.757	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C21	57	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	278.757	900	900	850	213	601.61	300	84.49	514.58	0.54
N+106.8	C21	57	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	278.757	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C21	57	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	200.578	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C21	57	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	200.578	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C21	57	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	200.578	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C21	57	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	186.958	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C21	57	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	186.958	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C21	57	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	186.958	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C21	57	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	259.71	900	900	850	213	601.61	150	168.98	577.94	0.45
N+106.8	C21	57	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	259.71	900	900	850	213	601.61	300	84.49	514.58	0.50
N+106.8	C21	57	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	259.71	900	900	850	213	601.61	150	168.98	577.94	0.45
N+106.8	C22	58	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	288.753	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C22	58	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	288.753	900	900	850	213	601.61	300	84.49	514.58	0.56
N+106.8	C22	58	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	288.753	900	900	850	213	601.61	150	168.98	577.94	0.50
N+106.8	C22	58	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.865	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C22	58	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.865	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C22	58	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	187.865	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C22	58	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	277.544	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C22	58	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	277.544	900	900	850	213	601.61	300	84.49	514.58	0.54

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C22	58	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	277.544	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C22	58	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	165.464	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C22	58	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	165.464	900	900	850	213	601.61	300	84.49	514.58	0.32
N+106.8	C22	58	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	165.464	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C22	58	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	276.142	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C22	58	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	276.142	900	900	850	213	601.61	300	84.49	514.58	0.54
N+106.8	C22	58	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	276.142	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C22	58	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	200.476	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C22	58	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	200.476	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C22	58	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	200.476	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C22	58	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	263.534	900	900	850	213	601.61	150	168.98	577.94	0.46
N+106.8	C22	58	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	263.534	900	900	850	213	601.61	300	84.49	514.58	0.51
N+106.8	C22	58	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	263.534	900	900	850	213	601.61	150	168.98	577.94	0.46
N+106.8	C22	58	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	179.474	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C22	58	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	179.474	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C22	58	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	179.474	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C23	59	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	194.62	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C23	59	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	194.62	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C23	59	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	194.62	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C23	59	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	239.549	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C23	59	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	239.549	900	900	850	213	601.61	300	84.49	514.58	0.47
N+106.8	C23	59	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	239.549	900	900	850	213	601.61	150	168.98	577.94	0.41
N+106.8	C23	59	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	152.915	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C23	59	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	152.915	900	900	850	213	601.61	300	84.49	514.58	0.30
N+106.8	C23	59	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	152.915	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C23	59	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	266.121	900	900	850	213	601.61	150	168.98	577.94	0.46
N+106.8	C23	59	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	266.121	900	900	850	213	601.61	300	84.49	514.58	0.52
N+106.8	C23	59	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	266.121	900	900	850	213	601.61	150	168.98	577.94	0.46
N+106.8	C23	59	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	200.236	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C23	59	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	200.236	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C23	59	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	200.236	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C23	59	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	233.933	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C23	59	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	233.933	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C23	59	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	233.933	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C23	59	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	167.066	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C23	59	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	167.066	900	900	850	213	601.61	300	84.49	514.58	0.32
N+106.8	C23	59	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	167.066	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C23	59	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	251.97	900	900	850	213	601.61	150	168.98	577.94	0.44
N+106.8	C23	59	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	251.97	900	900	850	213	601.61	300	84.49	514.58	0.49
N+106.8	C23	59	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	251.97	900	900	850	213	601.61	150	168.98	577.94	0.44

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C24	60	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	174.348	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C24	60	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	174.348	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C24	60	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	174.348	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C24	60	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	231.627	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C24	60	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	231.627	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C24	60	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	231.627	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C24	60	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	98.2957	900	900	850	213	601.61	150	168.98	577.94	0.17
N+106.8	C24	60	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	98.2957	900	900	850	213	601.61	300	84.49	514.58	0.19
N+106.8	C24	60	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	98.2957	900	900	850	213	601.61	150	168.98	577.94	0.17
N+106.8	C24	60	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.559	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C24	60	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.559	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C24	60	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.559	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C24	60	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	181.508	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C24	60	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	181.508	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C24	60	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	181.508	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C24	60	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	224.468	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C24	60	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	224.468	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C24	60	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	224.468	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C24	60	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	110.704	900	900	850	213	601.61	150	168.98	577.94	0.19
N+106.8	C24	60	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	110.704	900	900	850	213	601.61	300	84.49	514.58	0.22
N+106.8	C24	60	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	110.704	900	900	850	213	601.61	150	168.98	577.94	0.19
N+106.8	C24	60	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	185.151	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C24	60	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	185.151	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C24	60	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	185.151	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C25	61	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	230.992	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C25	61	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	230.992	900	900	850	213	601.61	300	84.49	514.58	0.45
N+106.8	C25	61	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	230.992	900	900	850	213	601.61	150	168.98	577.94	0.40
N+106.8	C25	61	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	204.608	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C25	61	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	204.608	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C25	61	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	204.608	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C25	61	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	176.351	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C25	61	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	176.351	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C25	61	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	176.351	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C25	61	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	118.861	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C25	61	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	118.861	900	900	850	213	601.61	300	84.49	514.58	0.23
N+106.8	C25	61	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	118.861	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C25	61	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	227.694	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C25	61	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	227.694	900	900	850	213	601.61	300	84.49	514.58	0.44
N+106.8	C25	61	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	227.694	900	900	850	213	601.61	150	168.98	577.94	0.39
N+106.8	C25	61	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	207.906	900	900	850	213	601.61	150	168.98	577.94	0.36

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C25	61	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	207.906	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C25	61	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	207.906	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C25	61	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	169.165	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C25	61	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	169.165	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C25	61	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	169.165	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C25	61	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	126.047	900	900	850	213	601.61	150	168.98	577.94	0.22
N+106.8	C25	61	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	126.047	900	900	850	213	601.61	300	84.49	514.58	0.24
N+106.8	C25	61	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	126.047	900	900	850	213	601.61	150	168.98	577.94	0.22
N+106.8	C26	62	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	210.886	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C26	62	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	210.886	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C26	62	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	210.886	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C26	62	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.381	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C26	62	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.381	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C26	62	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.381	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C26	62	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	201.843	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C26	62	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	201.843	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C26	62	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	201.843	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C26	62	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	186.157	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C26	62	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	186.157	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C26	62	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	186.157	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C26	62	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	211.823	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C26	62	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	211.823	900	900	850	213	601.61	300	84.49	514.58	0.41
N+106.8	C26	62	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	211.823	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C26	62	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	217.444	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C26	62	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	217.444	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C26	62	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	217.444	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C26	62	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	199.882	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C26	62	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	199.882	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C26	62	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	199.882	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C26	62	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	188.118	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C26	62	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	188.118	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C26	62	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	188.118	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C27	63	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	163.952	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C27	63	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	163.952	900	900	850	213	601.61	300	84.49	514.58	0.32
N+106.8	C27	63	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	163.952	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C27	63	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	296.546	900	900	850	213	601.61	150	168.98	577.94	0.51
N+106.8	C27	63	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	296.546	900	900	850	213	601.61	300	84.49	514.58	0.58
N+106.8	C27	63	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	296.546	900	900	850	213	601.61	150	168.98	577.94	0.51
N+106.8	C27	63	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	200.253	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C27	63	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	200.253	900	900	850	213	601.61	300	84.49	514.58	0.39

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C27	63	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	200.253	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C27	63	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	198.716	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C27	63	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	198.716	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C27	63	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	198.716	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C27	63	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	180.526	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C27	63	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	180.526	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C27	63	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	180.526	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C27	63	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	279.972	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C27	63	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	279.972	900	900	850	213	601.61	300	84.49	514.58	0.54
N+106.8	C27	63	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	279.972	900	900	850	213	601.61	150	168.98	577.94	0.48
N+106.8	C27	63	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	200.061	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C27	63	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	200.061	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C27	63	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	200.061	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C27	63	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	198.908	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C27	63	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	198.908	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C27	63	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	198.908	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	161.904	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C28	64	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	161.904	900	900	850	213	601.61	300	84.49	514.58	0.31
N+106.8	C28	64	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	161.904	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C28	64	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	297.691	900	900	850	213	601.61	150	168.98	577.94	0.52
N+106.8	C28	64	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	297.691	900	900	850	213	601.61	300	84.49	514.58	0.58
N+106.8	C28	64	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	297.691	900	900	850	213	601.61	150	168.98	577.94	0.52
N+106.8	C28	64	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.228	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.228	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C28	64	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	197.228	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	199.129	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	199.129	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C28	64	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	199.129	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	178.878	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C28	64	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	178.878	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C28	64	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	178.878	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C28	64	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	280.718	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C28	64	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	280.718	900	900	850	213	601.61	300	84.49	514.58	0.55
N+106.8	C28	64	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	280.718	900	900	850	213	601.61	150	168.98	577.94	0.49
N+106.8	C28	64	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	197.465	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	197.465	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C28	64	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	197.465	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	198.891	900	900	850	213	601.61	150	168.98	577.94	0.34
N+106.8	C28	64	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	198.891	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C28	64	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	198.891	900	900	850	213	601.61	150	168.98	577.94	0.34

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C29	65	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	206.261	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C29	65	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	206.261	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C29	65	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	206.261	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C29	65	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.149	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C29	65	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.149	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C29	65	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	218.149	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C29	65	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	184.304	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C29	65	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	184.304	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C29	65	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	184.304	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C29	65	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	202.228	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C29	65	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	202.228	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C29	65	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	202.228	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C29	65	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	207.747	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C29	65	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	207.747	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C29	65	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	207.747	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C29	65	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	216.663	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C29	65	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	216.663	900	900	850	213	601.61	300	84.49	514.58	0.42
N+106.8	C29	65	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	216.663	900	900	850	213	601.61	150	168.98	577.94	0.37
N+106.8	C29	65	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	186.545	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C29	65	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	186.545	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C29	65	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	186.545	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C29	65	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	199.987	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C29	65	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	199.987	900	900	850	213	601.61	300	84.49	514.58	0.39
N+106.8	C29	65	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	199.987	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C30	66	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	222.374	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C30	66	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	222.374	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C30	66	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	222.374	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C30	66	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	203.803	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C30	66	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	203.803	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C30	66	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	203.803	900	900	850	213	601.61	150	168.98	577.94	0.35
N+106.8	C30	66	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	119.174	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C30	66	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	119.174	900	900	850	213	601.61	300	84.49	514.58	0.23
N+106.8	C30	66	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	119.174	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C30	66	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	175.112	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C30	66	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	175.112	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C30	66	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	175.112	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C30	66	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	220.053	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C30	66	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	220.053	900	900	850	213	601.61	300	84.49	514.58	0.43
N+106.8	C30	66	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	220.053	900	900	850	213	601.61	150	168.98	577.94	0.38
N+106.8	C30	66	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	206.124	900	900	850	213	601.61	150	168.98	577.94	0.36

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C30	66	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	206.124	900	900	850	213	601.61	300	84.49	514.58	0.40
N+106.8	C30	66	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	206.124	900	900	850	213	601.61	150	168.98	577.94	0.36
N+106.8	C30	66	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	126.166	900	900	850	213	601.61	150	168.98	577.94	0.22
N+106.8	C30	66	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	126.166	900	900	850	213	601.61	300	84.49	514.58	0.25
N+106.8	C30	66	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	126.166	900	900	850	213	601.61	150	168.98	577.94	0.22
N+106.8	C30	66	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	168.12	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C30	66	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	168.12	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C30	66	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	168.12	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C31	67	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.814	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C31	67	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.814	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C31	67	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	137.814	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C31	67	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.323	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C31	67	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.323	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C31	67	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.323	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C31	67	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.86	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C31	67	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.86	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C31	67	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.86	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C31	67	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	116.623	900	900	850	213	601.61	150	168.98	577.94	0.20
N+106.8	C31	67	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	116.623	900	900	850	213	601.61	300	84.49	514.58	0.23
N+106.8	C31	67	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	116.623	900	900	850	213	601.61	150	168.98	577.94	0.20
N+106.8	C31	67	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	144.753	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C31	67	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	144.753	900	900	850	213	601.61	300	84.49	514.58	0.28
N+106.8	C31	67	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	144.753	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C31	67	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	186.384	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C31	67	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	186.384	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C31	67	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	186.384	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C31	67	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	163.206	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C31	67	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	163.206	900	900	850	213	601.61	300	84.49	514.58	0.32
N+106.8	C31	67	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	163.206	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C31	67	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	123.278	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C31	67	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	123.278	900	900	850	213	601.61	300	84.49	514.58	0.24
N+106.8	C31	67	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	123.278	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C32	68	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	134.621	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C32	68	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	134.621	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C32	68	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	134.621	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C32	68	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.751	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C32	68	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.751	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C32	68	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	190.751	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C32	68	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	180.447	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C32	68	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	180.447	900	900	850	213	601.61	300	84.49	514.58	0.35

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C32	68	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	180.447	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C32	68	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	193.154	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C32	68	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	193.154	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C32	68	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	193.154	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C32	68	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	141.637	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C32	68	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	141.637	900	900	850	213	601.61	300	84.49	514.58	0.28
N+106.8	C32	68	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	141.637	900	900	850	213	601.61	150	168.98	577.94	0.25
N+106.8	C32	68	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	183.734	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C32	68	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	183.734	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C32	68	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	183.734	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C32	68	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	182.035	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C32	68	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	182.035	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C32	68	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	182.035	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C32	68	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	191.566	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C32	68	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	191.566	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C32	68	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	191.566	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C33	69	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	148.331	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C33	69	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	148.331	900	900	850	213	601.61	300	84.49	514.58	0.29
N+106.8	C33	69	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	148.331	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C33	69	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.694	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.694	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C33	69	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.694	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	179.893	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	179.893	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C33	69	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	179.893	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	179.894	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	179.894	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C33	69	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	179.894	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	152.126	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C33	69	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	152.126	900	900	850	213	601.61	300	84.49	514.58	0.30
N+106.8	C33	69	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	152.126	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C33	69	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	174.898	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C33	69	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	174.898	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C33	69	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	174.898	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C33	69	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	179.893	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	179.893	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C33	69	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	179.893	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	179.894	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C33	69	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	179.894	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C33	69	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	179.894	900	900	850	213	601.61	150	168.98	577.94	0.31

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C34	70	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	147.51	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C34	70	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	147.51	900	900	850	213	601.61	300	84.49	514.58	0.29
N+106.8	C34	70	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	147.51	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C34	70	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.197	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.197	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C34	70	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	178.197	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	178.379	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	178.379	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C34	70	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	178.379	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.322	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.322	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C34	70	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.322	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	151.346	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C34	70	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	151.346	900	900	850	213	601.61	300	84.49	514.58	0.29
N+106.8	C34	70	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	151.346	900	900	850	213	601.61	150	168.98	577.94	0.26
N+106.8	C34	70	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	174.361	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C34	70	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	174.361	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C34	70	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	174.361	900	900	850	213	601.61	150	168.98	577.94	0.30
N+106.8	C34	70	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	178.247	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	178.247	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C34	70	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	178.247	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	177.454	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C34	70	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	177.454	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C34	70	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	177.454	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C35	71	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	132.662	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C35	71	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	132.662	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C35	71	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	132.662	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C35	71	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	189.696	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C35	71	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	189.696	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C35	71	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	189.696	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C35	71	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	189.641	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C35	71	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	189.641	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C35	71	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	189.641	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C35	71	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.103	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C35	71	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.103	900	900	850	213	601.61	300	84.49	514.58	0.34
N+106.8	C35	71	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	177.103	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C35	71	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	139.791	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C35	71	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	139.791	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C35	71	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	139.791	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C35	71	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	182.567	900	900	850	213	601.61	150	168.98	577.94	0.32

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+106.8	C35	71	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	182.567	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C35	71	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	182.567	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C35	71	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	188.074	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C35	71	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	188.074	900	900	850	213	601.61	300	84.49	514.58	0.37
N+106.8	C35	71	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	188.074	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C35	71	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	178.67	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C35	71	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	178.67	900	900	850	213	601.61	300	84.49	514.58	0.35
N+106.8	C35	71	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	178.67	900	900	850	213	601.61	150	168.98	577.94	0.31
N+106.8	C36	72	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	133.673	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C36	72	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	133.673	900	900	850	213	601.61	300	84.49	514.58	0.26
N+106.8	C36	72	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	133.673	900	900	850	213	601.61	150	168.98	577.94	0.23
N+106.8	C36	72	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.21	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C36	72	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.21	900	900	850	213	601.61	300	84.49	514.58	0.38
N+106.8	C36	72	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	193.21	900	900	850	213	601.61	150	168.98	577.94	0.33
N+106.8	C36	72	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	113.659	900	900	850	213	601.61	150	168.98	577.94	0.20
N+106.8	C36	72	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	113.659	900	900	850	213	601.61	300	84.49	514.58	0.22
N+106.8	C36	72	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	113.659	900	900	850	213	601.61	150	168.98	577.94	0.20
N+106.8	C36	72	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.785	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C36	72	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.785	900	900	850	213	601.61	300	84.49	514.58	0.33
N+106.8	C36	72	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	169.785	900	900	850	213	601.61	150	168.98	577.94	0.29
N+106.8	C36	72	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	141.115	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C36	72	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	141.115	900	900	850	213	601.61	300	84.49	514.58	0.27
N+106.8	C36	72	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	141.115	900	900	850	213	601.61	150	168.98	577.94	0.24
N+106.8	C36	72	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	185.768	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C36	72	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	185.768	900	900	850	213	601.61	300	84.49	514.58	0.36
N+106.8	C36	72	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	185.768	900	900	850	213	601.61	150	168.98	577.94	0.32
N+106.8	C36	72	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	120.675	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C36	72	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	120.675	900	900	850	213	601.61	300	84.49	514.58	0.23
N+106.8	C36	72	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	120.675	900	900	850	213	601.61	150	168.98	577.94	0.21
N+106.8	C36	72	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	162.769	900	900	850	213	601.61	150	168.98	577.94	0.28
N+106.8	C36	72	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	162.769	900	900	850	213	601.61	300	84.49	514.58	0.32
N+106.8	C36	72	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	162.769	900	900	850	213	601.61	150	168.98	577.94	0.28
N+100.01	C1	1	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	672.334	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C1	1	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	672.334	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C1	1	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	672.334	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C1	1	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	612.965	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C1	1	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	612.965	1050	1050	1000	213	825.74	300	99.4	693.86	0.88
N+100.01	C1	1	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	612.965	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C1	1	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	692.12	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C1	1	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	692.12	1050	1050	1000	213	825.74	300	99.4	693.86	1.00

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C1	1	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	692.12	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C1	1	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	632.082	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C1	1	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	632.082	1050	1050	1000	213	825.74	300	99.4	693.86	0.91
N+100.01	C1	1	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	632.082	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C1	1	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	664.913	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C1	1	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	664.913	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C1	1	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	664.913	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C1	1	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	620.386	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C1	1	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	620.386	1050	1050	1000	213	825.74	300	99.4	693.86	0.89
N+100.01	C1	1	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	620.386	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C1	1	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	684.615	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C1	1	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	684.615	1050	1050	1000	213	825.74	300	99.4	693.86	0.99
N+100.01	C1	1	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	684.615	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C1	1	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	639.587	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C1	1	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	639.587	1050	1050	1000	213	825.74	300	99.4	693.86	0.92
N+100.01	C1	1	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	639.587	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C2	2	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	677.467	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C2	2	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	677.467	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C2	2	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	677.467	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C2	2	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	596.451	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C2	2	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	596.451	1050	1050	1000	213	825.74	300	99.4	693.86	0.86
N+100.01	C2	2	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	596.451	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C2	2	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	771.381	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C2	2	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	771.381	1050	1050	1000	213	825.74	300	99.4	693.86	1.11
N+100.01	C2	2	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	771.381	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C2	2	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	785.406	1050	1050	1000	213	825.74	150	198.8	768.41	1.02
N+100.01	C2	2	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	785.406	1050	1050	1000	213	825.74	300	99.4	693.86	1.13
N+100.01	C2	2	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	785.406	1050	1050	1000	213	825.74	150	198.8	768.41	1.02
N+100.01	C2	2	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	667.34	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C2	2	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	667.34	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C2	2	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	667.34	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C2	2	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	606.578	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C2	2	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	606.578	1050	1050	1000	213	825.74	300	99.4	693.86	0.87
N+100.01	C2	2	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	606.578	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C2	2	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	773.135	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C2	2	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	773.135	1050	1050	1000	213	825.74	300	99.4	693.86	1.11
N+100.01	C2	2	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	773.135	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C2	2	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	783.653	1050	1050	1000	213	825.74	150	198.8	768.41	1.02
N+100.01	C2	2	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	783.653	1050	1050	1000	213	825.74	300	99.4	693.86	1.13
N+100.01	C2	2	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	783.653	1050	1050	1000	213	825.74	150	198.8	768.41	1.02

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C3	3	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.824	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C3	3	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.824	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C3	3	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.824	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C3	3	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	577.135	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C3	3	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	577.135	1050	1050	1000	213	825.74	300	99.4	693.86	0.83
N+100.01	C3	3	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	577.135	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C3	3	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	756.48	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C3	3	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	756.48	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C3	3	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	756.48	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C3	3	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	755.791	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C3	3	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	755.791	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C3	3	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	755.791	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C3	3	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	664.363	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C3	3	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	664.363	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C3	3	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	664.363	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C3	3	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	589.596	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C3	3	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	589.596	1050	1050	1000	213	825.74	300	99.4	693.86	0.85
N+100.01	C3	3	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	589.596	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C3	3	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	756.394	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C3	3	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	756.394	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C3	3	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	756.394	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C3	3	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	755.877	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C3	3	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	755.877	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C3	3	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	755.877	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C4	4	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.673	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C4	4	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.673	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C4	4	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.673	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C4	4	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	574.716	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C4	4	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	574.716	1050	1050	1000	213	825.74	300	99.4	693.86	0.83
N+100.01	C4	4	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	574.716	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C4	4	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	756.194	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C4	4	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	756.194	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C4	4	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	756.194	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C4	4	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	761.024	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C4	4	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	761.024	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C4	4	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	761.024	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C4	4	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	663.928	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C4	4	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	663.928	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C4	4	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	663.928	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C4	4	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	587.461	1050	1050	1000	213	825.74	150	198.8	768.41	0.76

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C4	4	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	587.461	1050	1050	1000	213	825.74	300	99.4	693.86	0.85
N+100.01	C4	4	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	587.461	1050	1050	1000	213	825.74	150	198.8	768.41	0.76
N+100.01	C4	4	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	756.798	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C4	4	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	756.798	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C4	4	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	756.798	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C4	4	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	760.42	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C4	4	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	760.42	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C4	4	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	760.42	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C5	5	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.878	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C5	5	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.878	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C5	5	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	676.878	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C5	5	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	595.244	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C5	5	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	595.244	1050	1050	1000	213	825.74	300	99.4	693.86	0.86
N+100.01	C5	5	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	595.244	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C5	5	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	780.29	1050	1050	1000	213	825.74	150	198.8	768.41	1.02
N+100.01	C5	5	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	780.29	1050	1050	1000	213	825.74	300	99.4	693.86	1.12
N+100.01	C5	5	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	780.29	1050	1050	1000	213	825.74	150	198.8	768.41	1.02
N+100.01	C5	5	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	776.346	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C5	5	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	776.346	1050	1050	1000	213	825.74	300	99.4	693.86	1.12
N+100.01	C5	5	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	776.346	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C5	5	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	666.674	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C5	5	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	666.674	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C5	5	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	666.674	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C5	5	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	605.448	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C5	5	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	605.448	1050	1050	1000	213	825.74	300	99.4	693.86	0.87
N+100.01	C5	5	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	605.448	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C5	5	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	779.797	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C5	5	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	779.797	1050	1050	1000	213	825.74	300	99.4	693.86	1.12
N+100.01	C5	5	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	779.797	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C5	5	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	776.839	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C5	5	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	776.839	1050	1050	1000	213	825.74	300	99.4	693.86	1.12
N+100.01	C5	5	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	776.839	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C6	6	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	674.395	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C6	6	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	674.395	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C6	6	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	674.395	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C6	6	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	614.839	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C6	6	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	614.839	1050	1050	1000	213	825.74	300	99.4	693.86	0.89
N+100.01	C6	6	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	614.839	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C6	6	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.92	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C6	6	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.92	1050	1050	1000	213	825.74	300	99.4	693.86	0.91

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C6	6	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.92	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C6	6	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	696.137	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C6	6	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	696.137	1050	1050	1000	213	825.74	300	99.4	693.86	1.00
N+100.01	C6	6	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	696.137	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C6	6	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	666.95	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C6	6	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	666.95	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C6	6	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	666.95	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C6	6	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	622.284	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C6	6	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	622.284	1050	1050	1000	213	825.74	300	99.4	693.86	0.90
N+100.01	C6	6	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	622.284	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C6	6	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	639.947	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C6	6	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	639.947	1050	1050	1000	213	825.74	300	99.4	693.86	0.92
N+100.01	C6	6	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	639.947	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C6	6	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	688.11	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C6	6	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	688.11	1050	1050	1000	213	825.74	300	99.4	693.86	0.99
N+100.01	C6	6	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	688.11	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C7	7	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	750.564	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C7	7	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	750.564	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C7	7	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	750.564	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C7	7	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.996	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C7	7	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.996	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C7	7	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.996	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C7	7	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	680.982	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C7	7	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	680.982	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C7	7	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	680.982	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C7	7	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	602.503	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C7	7	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	602.503	1050	1050	1000	213	825.74	300	99.4	693.86	0.87
N+100.01	C7	7	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	602.503	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C7	7	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	751.368	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C7	7	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	751.368	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C7	7	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	751.368	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C7	7	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	756.192	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C7	7	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	756.192	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C7	7	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	756.192	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C7	7	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	671.172	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C7	7	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	671.172	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C7	7	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	671.172	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C7	7	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	612.313	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C7	7	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	612.313	1050	1050	1000	213	825.74	300	99.4	693.86	0.88
N+100.01	C7	7	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	612.313	1050	1050	1000	213	825.74	150	198.8	768.41	0.80

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C8	8	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	728.238	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C8	8	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	728.238	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C8	8	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	728.238	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C8	8	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	753.509	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C8	8	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	753.509	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C8	8	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	753.509	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C8	8	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	739.17	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C8	8	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	739.17	1050	1050	1000	213	825.74	300	99.4	693.86	1.07
N+100.01	C8	8	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	739.17	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C8	8	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	764.09	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C8	8	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	764.09	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C8	8	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	764.09	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C8	8	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	731.397	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C8	8	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	731.397	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C8	8	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	731.397	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C8	8	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	750.35	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C8	8	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	750.35	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C8	8	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	750.35	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C8	8	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	742.285	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C8	8	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	742.285	1050	1050	1000	213	825.74	300	99.4	693.86	1.07
N+100.01	C8	8	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	742.285	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C8	8	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	760.975	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C8	8	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	760.975	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C8	8	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	760.975	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C9	9	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	684.211	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C9	9	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	684.211	1050	1050	1000	213	825.74	300	99.4	693.86	0.99
N+100.01	C9	9	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	684.211	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C9	9	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	774.97	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C9	9	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	774.97	1050	1050	1000	213	825.74	300	99.4	693.86	1.12
N+100.01	C9	9	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	774.97	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C9	9	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	734.934	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C9	9	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	734.934	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C9	9	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	734.934	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C9	9	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	730.401	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C9	9	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	730.401	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C9	9	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	730.401	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C9	9	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	695.556	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C9	9	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	695.556	1050	1050	1000	213	825.74	300	99.4	693.86	1.00
N+100.01	C9	9	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	695.556	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C9	9	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	763.625	1050	1050	1000	213	825.74	150	198.8	768.41	0.99

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C9	9	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	763.625	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C9	9	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	763.625	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C9	9	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	734.367	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C9	9	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	734.367	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C9	9	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	734.367	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C9	9	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	730.967	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C9	9	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	730.967	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C9	9	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	730.967	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C10	10	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	684.262	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C10	10	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	684.262	1050	1050	1000	213	825.74	300	99.4	693.86	0.99
N+100.01	C10	10	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	684.262	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C10	10	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	771.317	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C10	10	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	771.317	1050	1050	1000	213	825.74	300	99.4	693.86	1.11
N+100.01	C10	10	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	771.317	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C10	10	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	724.513	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C10	10	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	724.513	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C10	10	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	724.513	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C10	10	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	727.119	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C10	10	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	727.119	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C10	10	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	727.119	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C10	10	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	695.143	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C10	10	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	695.143	1050	1050	1000	213	825.74	300	99.4	693.86	1.00
N+100.01	C10	10	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	695.143	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C10	10	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	760.435	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C10	10	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	760.435	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C10	10	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	760.435	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C10	10	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	724.839	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C10	10	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	724.839	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C10	10	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	724.839	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C10	10	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	726.793	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C10	10	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	726.793	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C10	10	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	726.793	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C11	11	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	734.01	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C11	11	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	734.01	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C11	11	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	734.01	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C11	11	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	758.992	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C11	11	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	758.992	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C11	11	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	758.992	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C11	11	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	761.173	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C11	11	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	761.173	1050	1050	1000	213	825.74	300	99.4	693.86	1.10

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C11	11	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	761.173	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C11	11	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	737.911	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C11	11	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	737.911	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C11	11	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	737.911	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C11	11	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	737.133	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C11	11	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	737.133	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C11	11	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	737.133	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C11	11	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	755.869	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C11	11	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	755.869	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C11	11	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	755.869	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C11	11	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	758.265	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C11	11	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	758.265	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C11	11	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	758.265	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C11	11	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	740.819	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C11	11	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	740.819	1050	1050	1000	213	825.74	300	99.4	693.86	1.07
N+100.01	C11	11	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	740.819	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C12	12	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.087	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.087	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C12	12	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.087	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.797	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.797	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C12	12	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.797	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	600.826	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C12	12	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	600.826	1050	1050	1000	213	825.74	300	99.4	693.86	0.87
N+100.01	C12	12	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	600.826	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C12	12	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	677.689	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C12	12	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	677.689	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C12	12	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	677.689	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C12	12	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	751.801	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	751.801	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C12	12	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	751.801	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	756.084	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	756.084	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C12	12	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	756.084	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C12	12	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	610.433	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C12	12	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	610.433	1050	1050	1000	213	825.74	300	99.4	693.86	0.88
N+100.01	C12	12	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	610.433	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C12	12	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	668.081	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C12	12	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	668.081	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C12	12	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	668.081	1050	1050	1000	213	825.74	150	198.8	768.41	0.87

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C13	13	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	720.242	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C13	13	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	720.242	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C13	13	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	720.242	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C13	13	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	749.008	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C13	13	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	749.008	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C13	13	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	749.008	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C13	13	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	607.171	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C13	13	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	607.171	1050	1050	1000	213	825.74	300	99.4	693.86	0.88
N+100.01	C13	13	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	607.171	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C13	13	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	634.362	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C13	13	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	634.362	1050	1050	1000	213	825.74	300	99.4	693.86	0.91
N+100.01	C13	13	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	634.362	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C13	13	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	723.838	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C13	13	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	723.838	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C13	13	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	723.838	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C13	13	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	745.412	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C13	13	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	745.412	1050	1050	1000	213	825.74	300	99.4	693.86	1.07
N+100.01	C13	13	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	745.412	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C13	13	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	610.57	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C13	13	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	610.57	1050	1050	1000	213	825.74	300	99.4	693.86	0.88
N+100.01	C13	13	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	610.57	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C13	13	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	630.963	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C13	13	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	630.963	1050	1050	1000	213	825.74	300	99.4	693.86	0.91
N+100.01	C13	13	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	630.963	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C14	14	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	710.581	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C14	14	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	710.581	1050	1050	1000	213	825.74	300	99.4	693.86	1.02
N+100.01	C14	14	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	710.581	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C14	14	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	730.256	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C14	14	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	730.256	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C14	14	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	730.256	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C14	14	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	726.154	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C14	14	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	726.154	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C14	14	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	726.154	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C14	14	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	713.594	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C14	14	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	713.594	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C14	14	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	713.594	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C14	14	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	713.04	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C14	14	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	713.04	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C14	14	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	713.04	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C14	14	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	727.797	1050	1050	1000	213	825.74	150	198.8	768.41	0.95

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C14	14	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	727.797	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C14	14	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	727.797	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C14	14	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	724.584	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C14	14	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	724.584	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C14	14	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	724.584	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C14	14	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	715.164	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C14	14	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	715.164	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C14	14	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	715.164	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C15	15	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.572	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C15	15	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.572	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C15	15	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.572	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C15	15	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	666.804	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C15	15	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	666.804	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C15	15	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	666.804	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C15	15	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	722.672	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C15	15	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	722.672	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C15	15	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	722.672	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C15	15	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.961	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C15	15	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.961	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C15	15	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.961	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C15	15	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	725.226	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C15	15	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	725.226	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C15	15	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	725.226	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C15	15	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	675.15	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C15	15	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	675.15	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C15	15	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	675.15	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C15	15	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	715.708	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C15	15	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	715.708	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C15	15	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	715.708	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C15	15	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	673.925	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C15	15	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	673.925	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C15	15	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	673.925	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C16	16	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	736.133	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C16	16	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	736.133	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C16	16	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	736.133	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C16	16	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	669.125	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C16	16	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	669.125	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C16	16	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	669.125	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C16	16	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	660.434	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C16	16	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	660.434	1050	1050	1000	213	825.74	300	99.4	693.86	0.95

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C16	16	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	660.434	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C16	16	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	727.001	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C16	16	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	727.001	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C16	16	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	727.001	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C16	16	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	727.757	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C16	16	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	727.757	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C16	16	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	727.757	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C16	16	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	677.501	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C16	16	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	677.501	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C16	16	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	677.501	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C16	16	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	668.755	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C16	16	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	668.755	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C16	16	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	668.755	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C16	16	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	718.681	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C16	16	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	718.681	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C16	16	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	718.681	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C17	17	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	711.756	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C17	17	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	711.756	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C17	17	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	711.756	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C17	17	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	736.579	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C17	17	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	736.579	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C17	17	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	736.579	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C17	17	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	724.903	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C17	17	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	724.903	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C17	17	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	724.903	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C17	17	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	715.014	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C17	17	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	715.014	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C17	17	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	715.014	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C17	17	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	714.859	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C17	17	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	714.859	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C17	17	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	714.859	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C17	17	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	733.476	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C17	17	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	733.476	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C17	17	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	733.476	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C17	17	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	723.667	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C17	17	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	723.667	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C17	17	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	723.667	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C17	17	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	716.25	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C17	17	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	716.25	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C17	17	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	716.25	1050	1050	1000	213	825.74	150	198.8	768.41	0.93

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C18	18	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	724.586	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C18	18	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	724.586	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C18	18	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	724.586	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C18	18	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.51	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C18	18	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.51	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C18	18	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.51	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C18	18	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.331	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C18	18	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.331	1050	1050	1000	213	825.74	300	99.4	693.86	0.91
N+100.01	C18	18	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.331	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C18	18	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	611.715	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C18	18	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	611.715	1050	1050	1000	213	825.74	300	99.4	693.86	0.88
N+100.01	C18	18	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	611.715	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C18	18	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	727.952	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C18	18	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	727.952	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C18	18	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	727.952	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C18	18	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	748.145	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C18	18	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	748.145	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C18	18	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	748.145	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C18	18	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	628.879	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C18	18	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	628.879	1050	1050	1000	213	825.74	300	99.4	693.86	0.91
N+100.01	C18	18	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	628.879	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C18	18	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	614.167	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C18	18	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	614.167	1050	1050	1000	213	825.74	300	99.4	693.86	0.89
N+100.01	C18	18	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	614.167	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C19	19	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	758.146	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C19	19	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	758.146	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C19	19	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	758.146	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C19	19	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	722.068	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C19	19	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	722.068	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C19	19	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	722.068	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C19	19	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.807	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C19	19	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.807	1050	1050	1000	213	825.74	300	99.4	693.86	0.91
N+100.01	C19	19	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	631.807	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C19	19	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	582.197	1050	1050	1000	213	825.74	150	198.8	768.41	0.76
N+100.01	C19	19	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	582.197	1050	1050	1000	213	825.74	300	99.4	693.86	0.84
N+100.01	C19	19	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	582.197	1050	1050	1000	213	825.74	150	198.8	768.41	0.76
N+100.01	C19	19	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	753.636	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C19	19	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	753.636	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C19	19	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	753.636	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C19	19	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	726.578	1050	1050	1000	213	825.74	150	198.8	768.41	0.95

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C19	19	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	726.578	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C19	19	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	726.578	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C19	19	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	625.606	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C19	19	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	625.606	1050	1050	1000	213	825.74	300	99.4	693.86	0.90
N+100.01	C19	19	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	625.606	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C19	19	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	588.398	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C19	19	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	588.398	1050	1050	1000	213	825.74	300	99.4	693.86	0.85
N+100.01	C19	19	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	588.398	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C20	20	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	740.305	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C20	20	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	740.305	1050	1050	1000	213	825.74	300	99.4	693.86	1.07
N+100.01	C20	20	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	740.305	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C20	20	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	711.181	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C20	20	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	711.181	1050	1050	1000	213	825.74	300	99.4	693.86	1.02
N+100.01	C20	20	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	711.181	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C20	20	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	682.968	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C20	20	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	682.968	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C20	20	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	682.968	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C20	20	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	730.845	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C20	20	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	730.845	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C20	20	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	730.845	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C20	20	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	736.665	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C20	20	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	736.665	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C20	20	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	736.665	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C20	20	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	714.821	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C20	20	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	714.821	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C20	20	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	714.821	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C20	20	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	688.953	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C20	20	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	688.953	1050	1050	1000	213	825.74	300	99.4	693.86	0.99
N+100.01	C20	20	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	688.953	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C20	20	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	724.861	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C20	20	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	724.861	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C20	20	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	724.861	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C21	21	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	671.293	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C21	21	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	671.293	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C21	21	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	671.293	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C21	21	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	738.021	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C21	21	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	738.021	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C21	21	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	738.021	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C21	21	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	709.305	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C21	21	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	709.305	1050	1050	1000	213	825.74	300	99.4	693.86	1.02

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C21	21	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	709.305	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C21	21	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	649.724	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C21	21	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	649.724	1050	1050	1000	213	825.74	300	99.4	693.86	0.94
N+100.01	C21	21	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	649.724	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C21	21	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	679.634	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C21	21	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	679.634	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C21	21	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	679.634	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C21	21	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	729.68	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C21	21	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	729.68	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C21	21	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	729.68	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C21	21	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	701.858	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C21	21	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	701.858	1050	1050	1000	213	825.74	300	99.4	693.86	1.01
N+100.01	C21	21	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	701.858	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C21	21	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	657.171	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C21	21	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	657.171	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C21	21	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	657.171	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C22	22	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	663.001	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C22	22	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	663.001	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C22	22	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	663.001	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C22	22	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.981	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C22	22	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.981	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C22	22	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.981	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C22	22	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	638.168	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C22	22	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	638.168	1050	1050	1000	213	825.74	300	99.4	693.86	0.92
N+100.01	C22	22	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	638.168	1050	1050	1000	213	825.74	150	198.8	768.41	0.83
N+100.01	C22	22	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	709.804	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C22	22	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	709.804	1050	1050	1000	213	825.74	300	99.4	693.86	1.02
N+100.01	C22	22	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	709.804	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C22	22	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	671.874	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C22	22	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	671.874	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C22	22	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	671.874	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C22	22	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	725.109	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C22	22	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	725.109	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C22	22	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	725.109	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C22	22	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	647.123	1050	1050	1000	213	825.74	150	198.8	768.41	0.84
N+100.01	C22	22	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	647.123	1050	1050	1000	213	825.74	300	99.4	693.86	0.93
N+100.01	C22	22	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	647.123	1050	1050	1000	213	825.74	150	198.8	768.41	0.84
N+100.01	C22	22	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	700.849	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C22	22	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	700.849	1050	1050	1000	213	825.74	300	99.4	693.86	1.01
N+100.01	C22	22	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	700.849	1050	1050	1000	213	825.74	150	198.8	768.41	0.91

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C23	23	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	732.815	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C23	23	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	732.815	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C23	23	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	732.815	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C23	23	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	710.06	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C23	23	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	710.06	1050	1050	1000	213	825.74	300	99.4	693.86	1.02
N+100.01	C23	23	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	710.06	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C23	23	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	734.135	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C23	23	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	734.135	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C23	23	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	734.135	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C23	23	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.162	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C23	23	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.162	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C23	23	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.162	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C23	23	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	729.971	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C23	23	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	729.971	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C23	23	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	729.971	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C23	23	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	712.904	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C23	23	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	712.904	1050	1050	1000	213	825.74	300	99.4	693.86	1.03
N+100.01	C23	23	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	712.904	1050	1050	1000	213	825.74	150	198.8	768.41	0.93
N+100.01	C23	23	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	725.638	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C23	23	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	725.638	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C23	23	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	725.638	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C23	23	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	674.659	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C23	23	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	674.659	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C23	23	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	674.659	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C24	24	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	748.859	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C24	24	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	748.859	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C24	24	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	748.859	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C24	24	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	722.037	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C24	24	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	722.037	1050	1050	1000	213	825.74	300	99.4	693.86	1.04
N+100.01	C24	24	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	722.037	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C24	24	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	576.063	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C24	24	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	576.063	1050	1050	1000	213	825.74	300	99.4	693.86	0.83
N+100.01	C24	24	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	576.063	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C24	24	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	630.801	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C24	24	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	630.801	1050	1050	1000	213	825.74	300	99.4	693.86	0.91
N+100.01	C24	24	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	630.801	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C24	24	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	745.506	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C24	24	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	745.506	1050	1050	1000	213	825.74	300	99.4	693.86	1.07
N+100.01	C24	24	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	745.506	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C24	24	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	725.39	1050	1050	1000	213	825.74	150	198.8	768.41	0.94

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C24	24	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	725.39	1050	1050	1000	213	825.74	300	99.4	693.86	1.05
N+100.01	C24	24	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	725.39	1050	1050	1000	213	825.74	150	198.8	768.41	0.94
N+100.01	C24	24	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	582.905	1050	1050	1000	213	825.74	150	198.8	768.41	0.76
N+100.01	C24	24	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	582.905	1050	1050	1000	213	825.74	300	99.4	693.86	0.84
N+100.01	C24	24	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	582.905	1050	1050	1000	213	825.74	150	198.8	768.41	0.76
N+100.01	C24	24	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	623.959	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C24	24	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	623.959	1050	1050	1000	213	825.74	300	99.4	693.86	0.90
N+100.01	C24	24	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	623.959	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C25	25	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.919	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C25	25	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.919	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C25	25	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	756.919	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C25	25	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.511	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C25	25	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.511	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C25	25	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	751.511	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C25	25	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	627.937	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C25	25	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	627.937	1050	1050	1000	213	825.74	300	99.4	693.86	0.90
N+100.01	C25	25	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	627.937	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C25	25	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	546.657	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C25	25	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	546.657	1050	1050	1000	213	825.74	300	99.4	693.86	0.79
N+100.01	C25	25	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	546.657	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C25	25	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	756.243	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C25	25	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	756.243	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C25	25	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	756.243	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C25	25	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	752.187	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C25	25	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	752.187	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C25	25	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	752.187	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C25	25	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	617.777	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C25	25	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	617.777	1050	1050	1000	213	825.74	300	99.4	693.86	0.89
N+100.01	C25	25	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	617.777	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C25	25	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	556.817	1050	1050	1000	213	825.74	150	198.8	768.41	0.72
N+100.01	C25	25	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	556.817	1050	1050	1000	213	825.74	300	99.4	693.86	0.80
N+100.01	C25	25	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	556.817	1050	1050	1000	213	825.74	150	198.8	768.41	0.72
N+100.01	C26	26	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	760.362	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C26	26	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	760.362	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C26	26	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	760.362	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C26	26	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	737.026	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C26	26	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	737.026	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C26	26	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	737.026	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C26	26	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	679.44	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C26	26	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	679.44	1050	1050	1000	213	825.74	300	99.4	693.86	0.98

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C26	26	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	679.44	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C26	26	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	707.233	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C26	26	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	707.233	1050	1050	1000	213	825.74	300	99.4	693.86	1.02
N+100.01	C26	26	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	707.233	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C26	26	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	757.445	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C26	26	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	757.445	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C26	26	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	757.445	1050	1050	1000	213	825.74	150	198.8	768.41	0.99
N+100.01	C26	26	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	739.943	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C26	26	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	739.943	1050	1050	1000	213	825.74	300	99.4	693.86	1.07
N+100.01	C26	26	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	739.943	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C26	26	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	682.914	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C26	26	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	682.914	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C26	26	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	682.914	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C26	26	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	703.759	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C26	26	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	703.759	1050	1050	1000	213	825.74	300	99.4	693.86	1.01
N+100.01	C26	26	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	703.759	1050	1050	1000	213	825.74	150	198.8	768.41	0.92
N+100.01	C27	27	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	776.928	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C27	27	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	776.928	1050	1050	1000	213	825.74	300	99.4	693.86	1.12
N+100.01	C27	27	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	776.928	1050	1050	1000	213	825.74	150	198.8	768.41	1.01
N+100.01	C27	27	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	687.134	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C27	27	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	687.134	1050	1050	1000	213	825.74	300	99.4	693.86	0.99
N+100.01	C27	27	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	687.134	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C27	27	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	671.887	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C27	27	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	671.887	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C27	27	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	671.887	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C27	27	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	670.51	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C27	27	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	670.51	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C27	27	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	670.51	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C27	27	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	765.704	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C27	27	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	765.704	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C27	27	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	765.704	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C27	27	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	698.358	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C27	27	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	698.358	1050	1050	1000	213	825.74	300	99.4	693.86	1.01
N+100.01	C27	27	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	698.358	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C27	27	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	671.715	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C27	27	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	671.715	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C27	27	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	671.715	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C27	27	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	670.682	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C27	27	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	670.682	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C27	27	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	670.682	1050	1050	1000	213	825.74	150	198.8	768.41	0.87

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C28	28	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	766.617	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C28	28	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	766.617	1050	1050	1000	213	825.74	300	99.4	693.86	1.10
N+100.01	C28	28	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	766.617	1050	1050	1000	213	825.74	150	198.8	768.41	1.00
N+100.01	C28	28	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	682.568	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C28	28	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	682.568	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C28	28	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	682.568	1050	1050	1000	213	825.74	150	198.8	768.41	0.89
N+100.01	C28	28	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	663.325	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C28	28	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	663.325	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C28	28	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	663.325	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C28	28	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	668.371	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C28	28	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	668.371	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C28	28	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	668.371	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C28	28	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	756.111	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C28	28	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	756.111	1050	1050	1000	213	825.74	300	99.4	693.86	1.09
N+100.01	C28	28	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	756.111	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C28	28	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	693.074	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C28	28	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	693.074	1050	1050	1000	213	825.74	300	99.4	693.86	1.00
N+100.01	C28	28	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	693.074	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C28	28	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	663.956	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C28	28	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	663.956	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C28	28	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	663.956	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C28	28	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	667.74	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C28	28	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	667.74	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C28	28	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	667.74	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C29	29	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	752.397	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C29	29	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	752.397	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C29	29	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	752.397	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C29	29	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.441	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C29	29	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.441	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C29	29	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	733.441	1050	1050	1000	213	825.74	150	198.8	768.41	0.95
N+100.01	C29	29	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	698.513	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C29	29	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	698.513	1050	1050	1000	213	825.74	300	99.4	693.86	1.01
N+100.01	C29	29	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	698.513	1050	1050	1000	213	825.74	150	198.8	768.41	0.91
N+100.01	C29	29	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	673.098	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C29	29	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	673.098	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C29	29	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	673.098	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C29	29	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	750.027	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C29	29	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	750.027	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C29	29	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	750.027	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C29	29	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	735.811	1050	1050	1000	213	825.74	150	198.8	768.41	0.96

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C29	29	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	735.811	1050	1050	1000	213	825.74	300	99.4	693.86	1.06
N+100.01	C29	29	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	735.811	1050	1050	1000	213	825.74	150	198.8	768.41	0.96
N+100.01	C29	29	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	695.336	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C29	29	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	695.336	1050	1050	1000	213	825.74	300	99.4	693.86	1.00
N+100.01	C29	29	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	695.336	1050	1050	1000	213	825.74	150	198.8	768.41	0.90
N+100.01	C29	29	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	676.275	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C29	29	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	676.275	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C29	29	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	676.275	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C30	30	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	747.133	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C30	30	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	747.133	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C30	30	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	747.133	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C30	30	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	750.376	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C30	30	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	750.376	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C30	30	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	750.376	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C30	30	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	543.804	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C30	30	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	543.804	1050	1050	1000	213	825.74	300	99.4	693.86	0.78
N+100.01	C30	30	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	543.804	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C30	30	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	626.316	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C30	30	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	626.316	1050	1050	1000	213	825.74	300	99.4	693.86	0.90
N+100.01	C30	30	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	626.316	1050	1050	1000	213	825.74	150	198.8	768.41	0.82
N+100.01	C30	30	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	747.538	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C30	30	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	747.538	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C30	30	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	747.538	1050	1050	1000	213	825.74	150	198.8	768.41	0.97
N+100.01	C30	30	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	749.97	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C30	30	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	749.97	1050	1050	1000	213	825.74	300	99.4	693.86	1.08
N+100.01	C30	30	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	749.97	1050	1050	1000	213	825.74	150	198.8	768.41	0.98
N+100.01	C30	30	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	554.118	1050	1050	1000	213	825.74	150	198.8	768.41	0.72
N+100.01	C30	30	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	554.118	1050	1050	1000	213	825.74	300	99.4	693.86	0.80
N+100.01	C30	30	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	554.118	1050	1050	1000	213	825.74	150	198.8	768.41	0.72
N+100.01	C30	30	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	616.002	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C30	30	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	616.002	1050	1050	1000	213	825.74	300	99.4	693.86	0.89
N+100.01	C30	30	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	616.002	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C31	31	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	615.395	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C31	31	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	615.395	1050	1050	1000	213	825.74	300	99.4	693.86	0.89
N+100.01	C31	31	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	615.395	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C31	31	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	672.564	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C31	31	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	672.564	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C31	31	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	672.564	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C31	31	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	601.78	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C31	31	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	601.78	1050	1050	1000	213	825.74	300	99.4	693.86	0.87

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C31	31	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	601.78	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C31	31	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	541.025	1050	1050	1000	213	825.74	150	198.8	768.41	0.70
N+100.01	C31	31	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	541.025	1050	1050	1000	213	825.74	300	99.4	693.86	0.78
N+100.01	C31	31	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	541.025	1050	1050	1000	213	825.74	150	198.8	768.41	0.70
N+100.01	C31	31	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	622.541	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C31	31	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	622.541	1050	1050	1000	213	825.74	300	99.4	693.86	0.90
N+100.01	C31	31	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	622.541	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C31	31	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.417	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C31	31	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.417	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C31	31	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.417	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C31	31	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	594.185	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C31	31	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	594.185	1050	1050	1000	213	825.74	300	99.4	693.86	0.86
N+100.01	C31	31	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	594.185	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C31	31	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	548.62	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C31	31	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	548.62	1050	1050	1000	213	825.74	300	99.4	693.86	0.79
N+100.01	C31	31	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	548.62	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C32	32	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	595.633	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C32	32	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	595.633	1050	1050	1000	213	825.74	300	99.4	693.86	0.86
N+100.01	C32	32	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	595.633	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C32	32	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	675.517	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C32	32	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	675.517	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C32	32	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	675.517	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C32	32	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	664.18	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C32	32	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	664.18	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C32	32	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	664.18	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C32	32	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	677.489	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C32	32	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	677.489	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C32	32	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	677.489	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C32	32	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	605.619	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C32	32	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	605.619	1050	1050	1000	213	825.74	300	99.4	693.86	0.87
N+100.01	C32	32	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	605.619	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C32	32	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.532	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C32	32	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.532	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C32	32	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.532	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C32	32	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	665.844	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C32	32	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	665.844	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C32	32	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	665.844	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C32	32	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	675.826	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C32	32	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	675.826	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C32	32	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	675.826	1050	1050	1000	213	825.74	150	198.8	768.41	0.88

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C33	33	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	578.589	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C33	33	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	578.589	1050	1050	1000	213	825.74	300	99.4	693.86	0.83
N+100.01	C33	33	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	578.589	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C33	33	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	677.04	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C33	33	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	677.04	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C33	33	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	677.04	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C33	33	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	657.293	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C33	33	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	657.293	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C33	33	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	657.293	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C33	33	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	658.817	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C33	33	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	658.817	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C33	33	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	658.817	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C33	33	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	590.895	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C33	33	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	590.895	1050	1050	1000	213	825.74	300	99.4	693.86	0.85
N+100.01	C33	33	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	590.895	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C33	33	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	664.734	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C33	33	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	664.734	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C33	33	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	664.734	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C33	33	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	657.483	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C33	33	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	657.483	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C33	33	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	657.483	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C33	33	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	658.627	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C33	33	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	658.627	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C33	33	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	658.627	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C34	34	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	577.229	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C34	34	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	577.229	1050	1050	1000	213	825.74	300	99.4	693.86	0.83
N+100.01	C34	34	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	577.229	1050	1050	1000	213	825.74	150	198.8	768.41	0.75
N+100.01	C34	34	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	678.85	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C34	34	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	678.85	1050	1050	1000	213	825.74	300	99.4	693.86	0.98
N+100.01	C34	34	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	678.85	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C34	34	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	654.327	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C34	34	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	654.327	1050	1050	1000	213	825.74	300	99.4	693.86	0.94
N+100.01	C34	34	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	654.327	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C34	34	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	656.524	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C34	34	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	656.524	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C34	34	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	656.524	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C34	34	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	589.931	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C34	34	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	589.931	1050	1050	1000	213	825.74	300	99.4	693.86	0.85
N+100.01	C34	34	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	589.931	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C34	34	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	666.148	1050	1050	1000	213	825.74	150	198.8	768.41	0.87

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C34	34	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	666.148	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C34	34	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	666.148	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C34	34	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	654.602	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C34	34	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	654.602	1050	1050	1000	213	825.74	300	99.4	693.86	0.94
N+100.01	C34	34	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	654.602	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C34	34	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	656.249	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C34	34	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	656.249	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C34	34	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	656.249	1050	1050	1000	213	825.74	150	198.8	768.41	0.85
N+100.01	C35	35	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	593.325	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C35	35	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	593.325	1050	1050	1000	213	825.74	300	99.4	693.86	0.86
N+100.01	C35	35	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	593.325	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C35	35	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	674.593	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C35	35	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	674.593	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C35	35	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	674.593	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C35	35	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.678	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C35	35	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.678	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C35	35	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	666.678	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C35	35	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	662.6	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C35	35	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	662.6	1050	1050	1000	213	825.74	300	99.4	693.86	0.95
N+100.01	C35	35	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	662.6	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C35	35	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	603.484	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C35	35	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	603.484	1050	1050	1000	213	825.74	300	99.4	693.86	0.87
N+100.01	C35	35	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	603.484	1050	1050	1000	213	825.74	150	198.8	768.41	0.79
N+100.01	C35	35	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	664.434	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C35	35	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	664.434	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C35	35	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	664.434	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C35	35	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	666.168	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C35	35	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	666.168	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C35	35	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	666.168	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C35	35	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	663.11	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C35	35	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	663.11	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C35	35	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	663.11	1050	1050	1000	213	825.74	150	198.8	768.41	0.86
N+100.01	C36	36	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	612.447	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C36	36	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	612.447	1050	1050	1000	213	825.74	300	99.4	693.86	0.88
N+100.01	C36	36	1.2D+1.0Ex+0.3Ey+1.0L-CC	Max	1.2D+1.0Ex+0.3Ey+1.0L-CC	612.447	1050	1050	1000	213	825.74	150	198.8	768.41	0.80
N+100.01	C36	36	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	673.129	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C36	36	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	673.129	1050	1050	1000	213	825.74	300	99.4	693.86	0.97
N+100.01	C36	36	1.2D+1.0Ex+0.3Ey+1.0L-CC	Min	1.2D+1.0Ex+0.3Ey+1.0L-CC	673.129	1050	1050	1000	213	825.74	150	198.8	768.41	0.88
N+100.01	C36	36	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	536.73	1050	1050	1000	213	825.74	150	198.8	768.41	0.70
N+100.01	C36	36	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	536.73	1050	1050	1000	213	825.74	300	99.4	693.86	0.77

INDICES SOBREESFUERZO CORTANTE COLUMNAS ANTE CARGAS SISMICAS, Complejo CAD torre B

Propiedades	
f'c (MPa)	21.4
fy (MPa)	140

Coeficientes de reducción	
ϕc	1.0
ϕe	1.0

NIVEL	COLUMNA	PUNTO	SECCION	Localizacion	Combo	VU (kN)	B (mm)	H	D (mm)	Av (mm²)	Vc	SEPARACION (MM)	Vs	ϕVn	Relación de falla
N+100.01	C36	36	1.2D+1.0Ey+0.3Ex+1.0L-CC	Max	1.2D+1.0Ey+0.3Ex+1.0L-CC	536.73	1050	1050	1000	213	825.74	150	198.8	768.41	0.70
N+100.01	C36	36	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	600.466	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C36	36	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	600.466	1050	1050	1000	213	825.74	300	99.4	693.86	0.87
N+100.01	C36	36	1.2D+1.0Ey+0.3Ex+1.0L-CC	Min	1.2D+1.0Ey+0.3Ex+1.0L-CC	600.466	1050	1050	1000	213	825.74	150	198.8	768.41	0.78
N+100.01	C36	36	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	620.033	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C36	36	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	620.033	1050	1050	1000	213	825.74	300	99.4	693.86	0.89
N+100.01	C36	36	0.9D+1.0Ex+0.3Ey-CC	Max	0.9D+1.0Ex+0.3Ey-CC	620.033	1050	1050	1000	213	825.74	150	198.8	768.41	0.81
N+100.01	C36	36	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.544	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C36	36	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.544	1050	1050	1000	213	825.74	300	99.4	693.86	0.96
N+100.01	C36	36	0.9D+1.0Ex+0.3Ey-CC	Min	0.9D+1.0Ex+0.3Ey-CC	665.544	1050	1050	1000	213	825.74	150	198.8	768.41	0.87
N+100.01	C36	36	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	544.697	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C36	36	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	544.697	1050	1050	1000	213	825.74	300	99.4	693.86	0.79
N+100.01	C36	36	0.9D+1.0Ey+0.3Ex-CC	Max	0.9D+1.0Ey+0.3Ex-CC	544.697	1050	1050	1000	213	825.74	150	198.8	768.41	0.71
N+100.01	C36	36	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	592.499	1050	1050	1000	213	825.74	150	198.8	768.41	0.77
N+100.01	C36	36	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	592.499	1050	1050	1000	213	825.74	300	99.4	693.86	0.85
N+100.01	C36	36	0.9D+1.0Ey+0.3Ex-CC	Min	0.9D+1.0Ey+0.3Ex-CC	592.499	1050	1050	1000	213	825.74	150	198.8	768.41	0.77