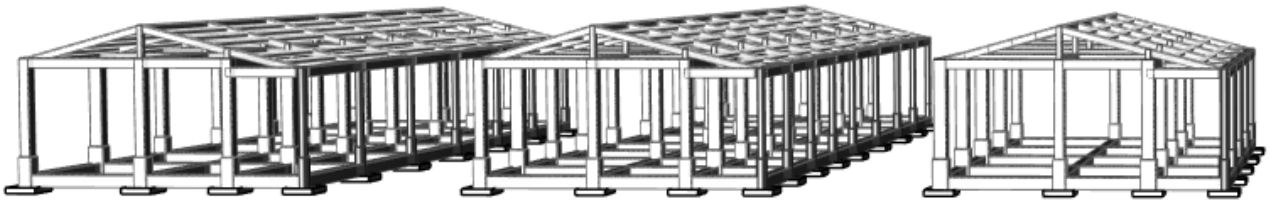
ANÁLISIS Y DISEÑO ESTRUCTURAL

ESTRUCTURAS I.E.D LUIS A. VALBUENA

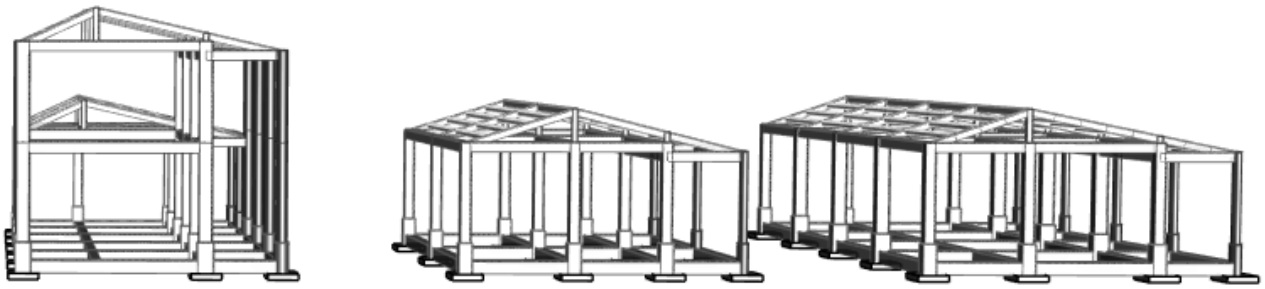
VEREDA NAGUY, LA VEGA (CUND)

REGLAMENTO COLOMBIANO DE DISEÑO Y CONSTRUCCIÓN SISMO RESISTENTE

NSR-10



PREESCOLAR **SECUNDARIA** **MULTIPROPÓSITO**



RESTAURANTE **ADMINISTRACIÓN** **BIBLIOTECA**

NOVIEMBRE DE 2024

BOGOTÁ D.C.

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Archivo: 155-MEMORIAS ESTRUCTURALES I.E.D VALBUENA, NAGUY, LA VEGA (CUND).pdf

MEMORIAL DE RESPONSABILIDAD
DISEÑO ESTRUCTURAL

BOGOTÁ D.C, NOVIEMBRE DE 2024

Señores:
PLANEACIÓN MUNICIPAL
LA VEGA, (CUND)

Asunto: **DISEÑO ESTRUCTURAL 6 MÓDULOS I.E.D. LUIS A. VALBUENA OBRA NUEVA**
Ubicación: VEREDA NAGUY, LA VEGA (CUND)

ESTRUCTURAS I.E.D VALBUENA LA VEGA (CUND)

Yo, CESAR BONILLA MORALES, Ingeniero Civil Calculista Estructural, debidamente registrado y titulado con matrícula profesional 25202190326 CND otorgada por el Consejo Profesional Nacional de Ingeniería –COPNIA-, presento el proyecto de Diseño Estructural del asunto, el cual ha sido elaborado siguiendo toda la normatividad vigente, incluyendo el REGLAMENTO COLOMBIANO DE DISEÑO Y CONSTRUCCIÓN SISMO RESISTENTE NSR-10 (Ley 400 de 1997 – Decreto 019 de 2012 - Decreto 926 de 2010, Decreto 945 de 2017, Decreto 2525 de 2010, Decreto 092 de 2011, Decreto 340 de 2012, Resolución 0017 de 2017).

Preciso que me responsabilizo únicamente por el Diseño Estructural; el Constructor se responsabilizará por la construcción, calidad de materiales y en seguir a cabalidad los presentes planos/diseños; el ingeniero geotecnista firmará planos de cimentación y se responsabilizará por ello, sin exonerar a planeación de la responsabilidad en revisión. El geotecnista debe realizar visita(s) a obra antes/durante la etapa de excavación.

Atentamente:



CÉSAR BONILLA MORALES
M.P. 25202190326 CND
INGENIERO CIVIL

REPÚBLICA DE COLOMBIA
COPNIA
Consejo Profesional Nacional de Ingeniería

Certificado de vigencia y antecedentes disciplinarios
CVAD-2024-2929943

CONSEJO PROFESIONAL NACIONAL DE INGENIERÍA
COPNIA

EL DIRECTOR GENERAL

CERTIFICA:

1. Que CESAR BONILLA MORALES, identificado(a) con CEDULA DE CIUDADANIA 1014179942, se encuentra inscrito(a) en el Registro Profesional Nacional que lleva esta entidad, en la profesión de INGENIERIA CIVIL con MATRICULA PROFESIONAL 25202-190326 desde el 20 de Agosto de 2010, otorgado(a) mediante Resolución Nacional 951.

2. Que el(la) MATRICULA PROFESIONAL es la autorización que expide el Estado para que el titular ejerza su profesión en todo el territorio de la República de Colombia, de conformidad con lo dispuesto en la Ley 842 de 2003.

3. Que el(la) referido(a) MATRICULA PROFESIONAL se encuentra **VIGENTE**

4. Que el profesional no tiene antecedentes disciplinarios ético-profesionales.

5. Que la presente certificación se expide en Bogotá, D.C., a los diecisiete (17) días del mes de Agosto del año dos mil veinticuatro (2024).

ESTRUCTURAS I.E.D VALBUENA, LA VEGA (CUND)

Rubén Dario Ochoa Arbeláez

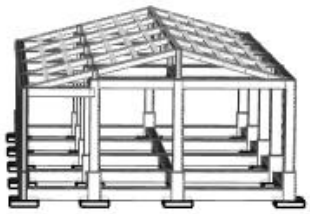
Firmal del titular (*)

(*)Con el fin de verificar que el titular autoriza su participación en procesos estatales de selección de contratistas. La falta de firma del titular no invalida el Certificado
El presente es un documento público expedido electrónicamente con firma digital que garantiza su plena validez jurídica y probatoria según lo establecido en la Ley 527 de 1999. Para verificar la firma digital, consulte las propiedades del documento original en formato .pdf.
Para verificar la integridad e inalterabilidad del presente documento consulte en el sitio web https://tramites.copnia.gov.co/Copnia_Microsite/CertificateOfGoodStanding/CertificateOfGoodStandingStart indicado el número del certificado que se encuentra en la esquina superior derecha de este documento.

CONSEJO PROFESIONAL NACIONAL DE INGENIERÍA – COPNIA
Calle 78 Nº 9 - 57 - Teléfono: 322 0191 - Bogotá D.C.
e-mail: contactenos@copnia.gov.co
www.copnia.gov.co

INTRODUCCIÓN

El presente proyecto consistió en analizar y diseñar estructuralmente seis edificaciones de un piso en concreto reforzado para uso escolar. La única estructura que tiende doble altura es la del restaurante. Las cubiertas son livianas a dos aguas conformadas por correas metálicas que se apoyan en unos perfiles metálicos inclinadas y parales que descansan sobre las vigas planas de concreto que están en un mismo nivel.



MULTIPROPÓSITO



SECUNDARIA

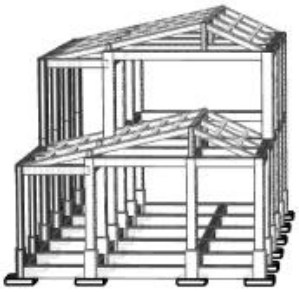
PREESCOLAR



BIBLIOTECA



ADMINISTRACIÓN



RESTAURANTE

El sistema estructural utilizado para resistir cargas verticales y laterales (sísmicas) es el de pórticos de concreto reforzado resistentes a momentos, con entramado de vigas y columnas en dos direcciones, cuyo uso está definido en El Reglamento Colombiano de Diseño y Construcción Sismo Resistente NSR-10.

La estructura cumple con los límites de derivas máximas para el grupo de uso 3, coeficiente de importancia I=1.25, ($\delta_{máx}$: 1.0%) y para los diseños de acuerdo con el NSR-10. Se consideró Disipación Moderada de Energía -DMO- puesto que el proyecto se encuentra en zona símica Intermedia. Todo está soportado mediante software de elementos finitos (AC318-11).

El diseño de los elementos vigas y columnas se analizaron/diseñaron bajo la Resolución 017/2017 y Reglamento NSR-10 vigente, analizando a su vez el chequeo de cortantes y los requerimientos de Columna fuerte /viga débil (6/5 beam column) citados en el capítulo C.21. El diseño de los elementos vigas/columnas (flexión+cortante+torsión+columna fuerte) se realizó en cumpliendo los parámetros del NSR-10.

La cimentación se diseñó teniendo en cuenta las cargas gravitacionales y está conformada por zapatas cuadradas que se amarran mediante unas vigas, con capacidad portante máxima de 14ton/m² a una profundidad de N-1.50m a partir del terreno natural, teniendo en cuenta el informe geotécnico (contrato alcaldía de La Vega Cund: 20200199 de 2021) del ingeniero Fernando Nieto Castañeda (M.P: 25202-3008 CND) con fecha mayo/2021. Los planos y detalles de cimentación deben estar aprobados y firmados por el geotecnista, sin su firma los planos no tienen validez.

Todos los planos deben estar analizados/firmados por el constructor responsable en señal de aprobación. Se debe tener bastante cuidado con el manejo del nivel freático (si aplica) durante la construcción, sobre todo en época de lluvias. El geotecnista deberá realizar visitas a la obra antes/durante la etapa de excavación y durante la construcción de la cimentación.

Aclaraciones

El presente proyecto estructural se realizó con base en la información suministrada por el contratante, soportados en el estudio geotécnico y planos arquitectónicos. De presentarse algún cambio/faltante se debe comunicar al suscrito ingeniero estructural para realizar los pertinentes ajustes.

Especificaciones

Sistema Estructural:	Pórticos de Concreto Reforzado Resistentes a Momentos
Método Análisis:	Fuerza Horizontal Equivalente F.H.E
Refuerzo:	Fy=420MPa – Todo.
Concreto:	F 'c=3000PSI – Cimentación, Muros de Contención.
	F 'c=3000PSI – Columnas, Vigas, Losas, Escaleras

Perfiles Metálicos:	Cuadrados= Acero A500 Grado C
	IPE= Acero A572 Grado 50
Respuesta Sísmica:	SUELO TIPO E (S_a =0.79; factorizado por I: Sa=0.98).
Disipación Energía:	DMO (Zona Sísmica Intermedia)
Grupo Uso**:** III	Importancia I**:** 1.25
Reglamento:	NSR-10; Resolución 0017/2017
Carga Viva:	Piso 1: 200Kg/m²; Cubierta: 50kg/m²
Carga Viento:	50Kg/m^2
Carga Lluvia/Granizo:	50Kg/m^2
Acabados:	110Kg/m^2; 130Kg/m^2
F'm= 12MPa	Mamposterías, Morteros

1. PESO DE MUROS

ESTRUCTURAS I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

Mampostería:

Arcilla:	X	ɣ = 1.50 → Bloque
Poliestireno:		ɣ = 1.80 → Ladrillo

MUROS DIVISORIOS / FACHADAS - PISO 1

Espesor muros:	0.15 m
Altura muros:	3.05 m
Peso muros:	0.69 ton/m

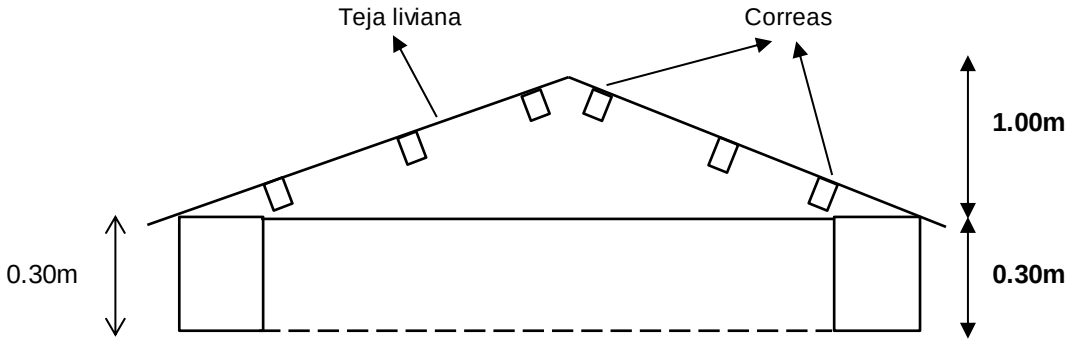
*** Este peso lineal de muros los asume la losa contra-terreno (contrapiso)*

2. ANÁLISIS DE CARGAS

ESTRUCTURAS I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

C U B I E R T A



DENSIDAD ACERO = **7850 kg/m³**

DENSIDAD CONCRETO = **2400 kg/m³**

PESO TEJA =	0.25kN/m²		
PESO METÉLICOS =	0.20kN/m²		15%
CIELO RASO =	0.50kN/m²		
CARGA MUERTA =	0.95kN/m²	0.08	0.09
CARGA VIVA =	0.50kN/m²	0.05	0.06
CARGA LLUVIA =	0.50kN/m²	0.05	0.06
CARGA VIENTO =	0.50kN/m²	0.05	0.06
CM + CV =	1.45kN/m²	0.15 + PP	
CARGA VIVA PISO 1 =	5.00kN/m²	0.50	

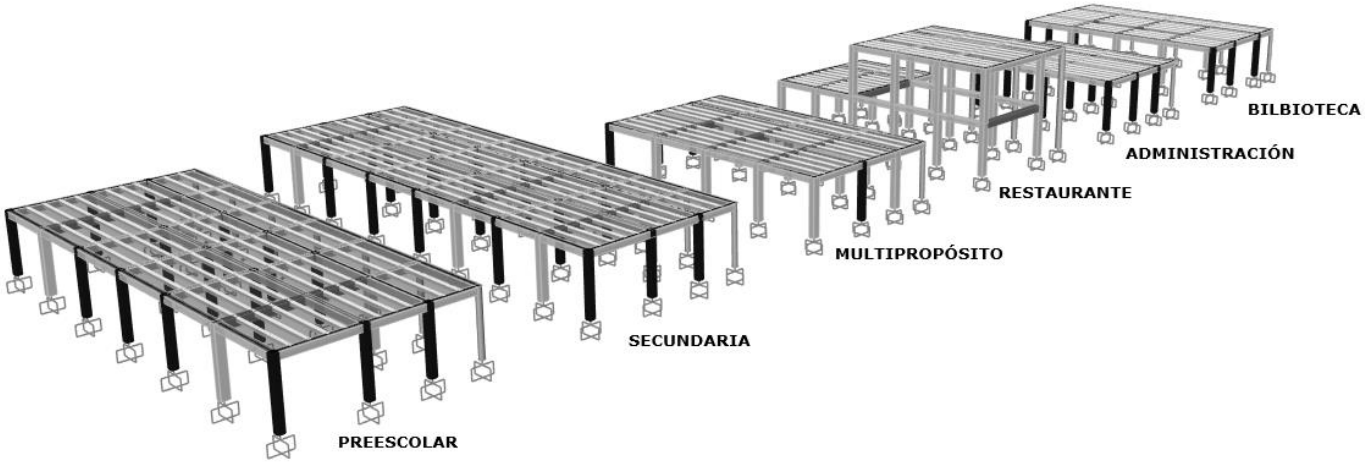
** Las cargas de correas, vigas y columnas, el software los asume como peso propio*

** Las correas (pinned/releases) y teja (membrane) no hacen parte del sistema de resistencia*

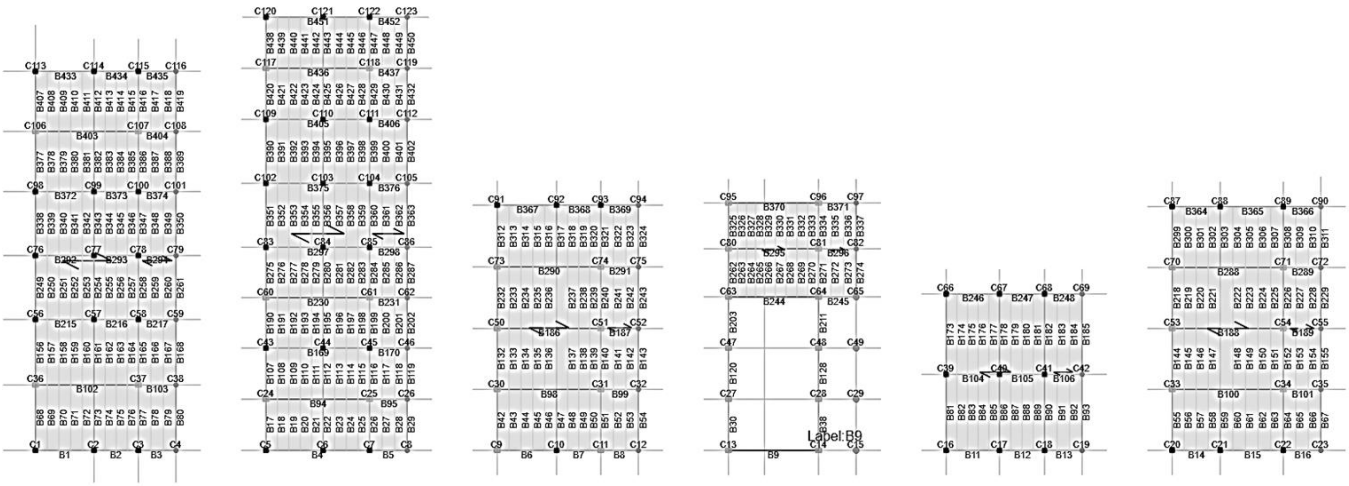
** La carga viva 500kg/m² aplica únicamente para los pisos 1 (contrapiso), no hay pisos aéreos.*

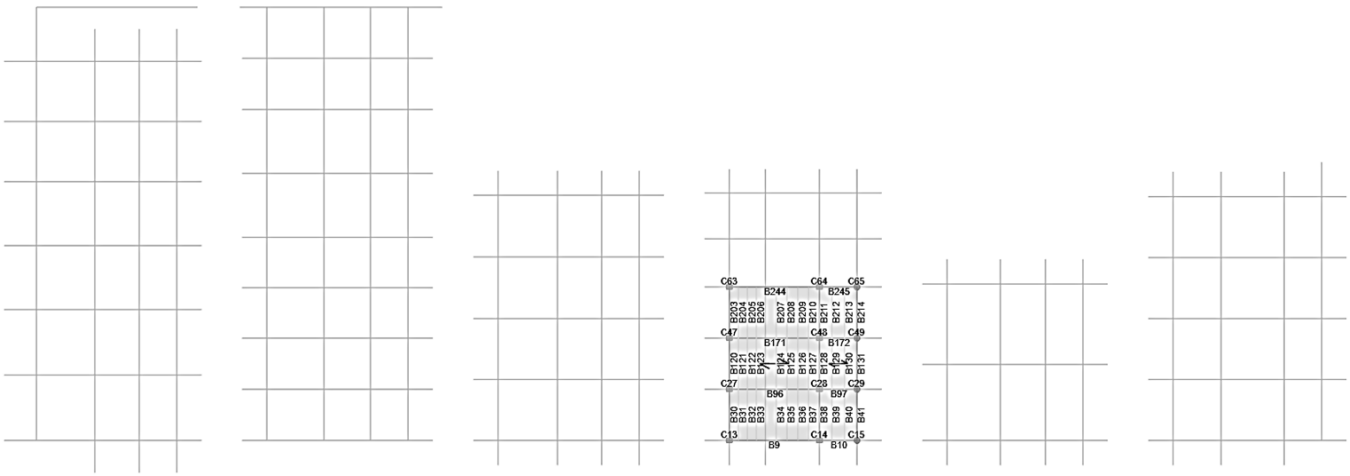
3. MODELOS MATEMÁTICOS

ESTOS MODELOS MATEMÁTICOS PARA LOS ANÁLISIS ESTRUCTRUALES CONTIENEN LAS COLUMNAS, LAS VIGAS, LAS CORREAS (PINNED/RELEASES), LA TEJA (MEMBRANE) PLANOS Y SE ASIGANARON CARGAS DISTRIUBUIDAS FACTORIZADAS POR EL PORCENTAJE DE INCLINACIÓN (15%) DE LAS CUBIERTAS. LAS CUBIERTAS INCLINADAS CON PARALES-CERCHAS-CORREAS METÁLICOS, FUERON DETALLADOS EN OTROS MODELOS MATEMÁTICOS Y SE PRESENTARÁN MÁS ADELANTE EN ELEMENTOS METÁLICOS.

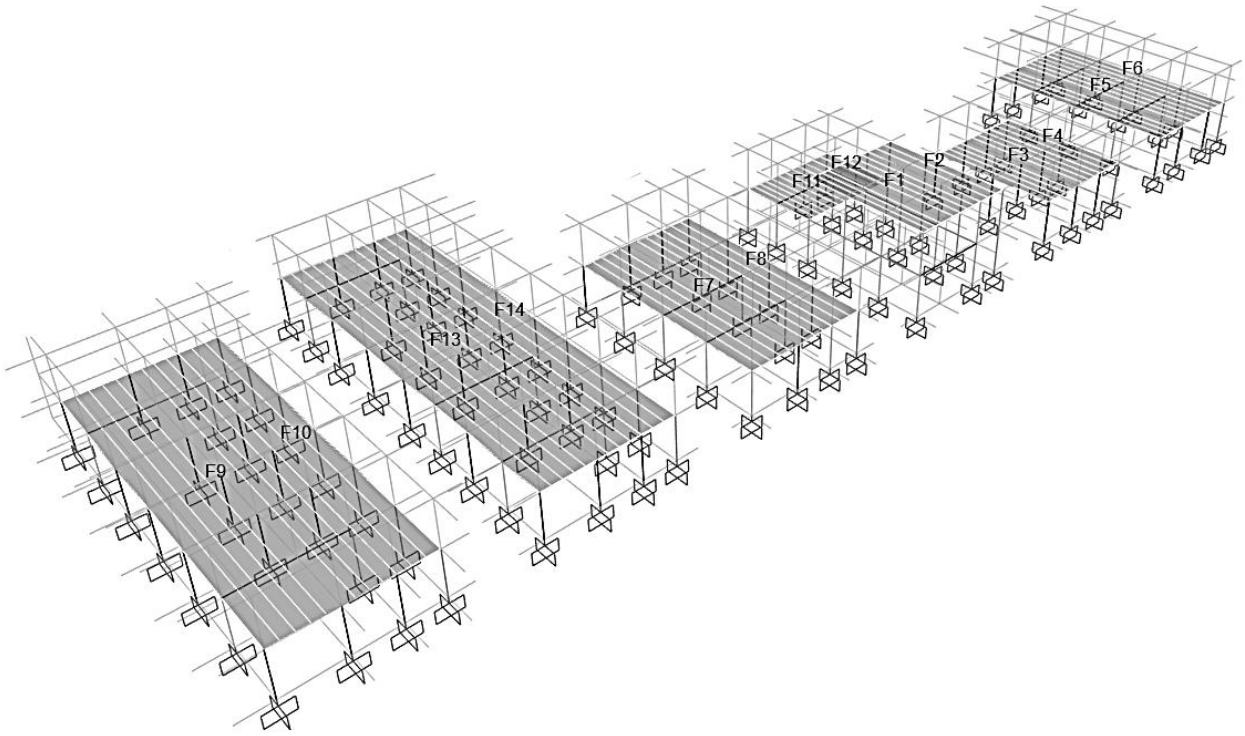


VISTA 3D

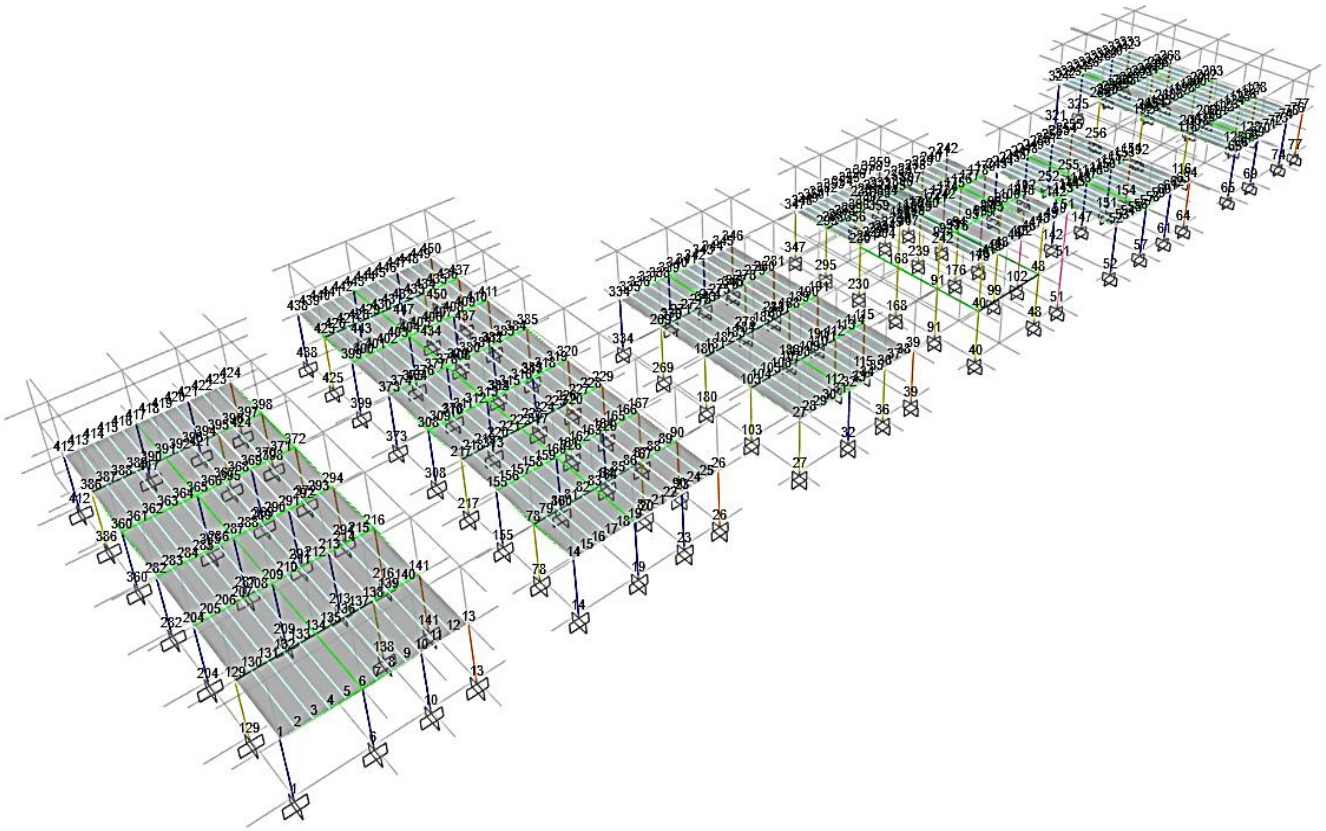




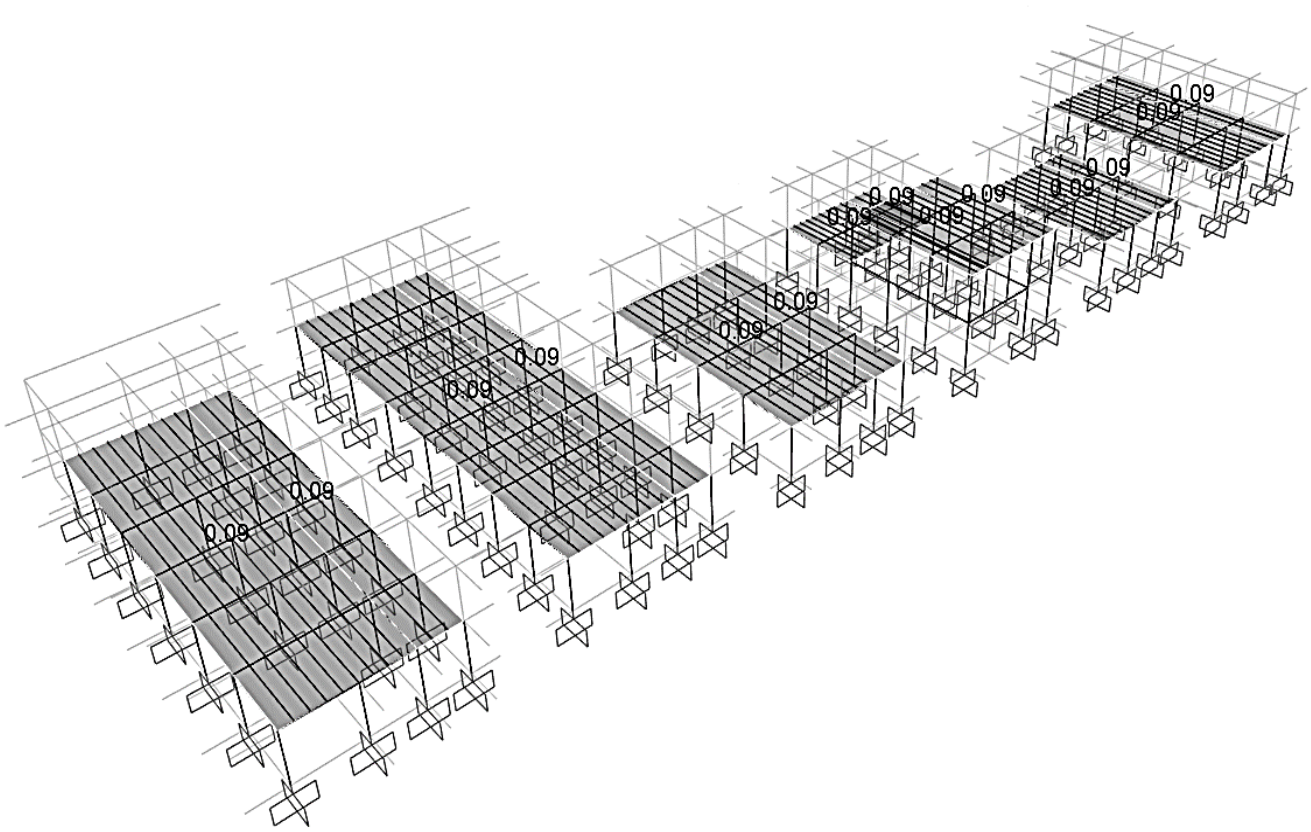
NUMERACIÓN FRAMES



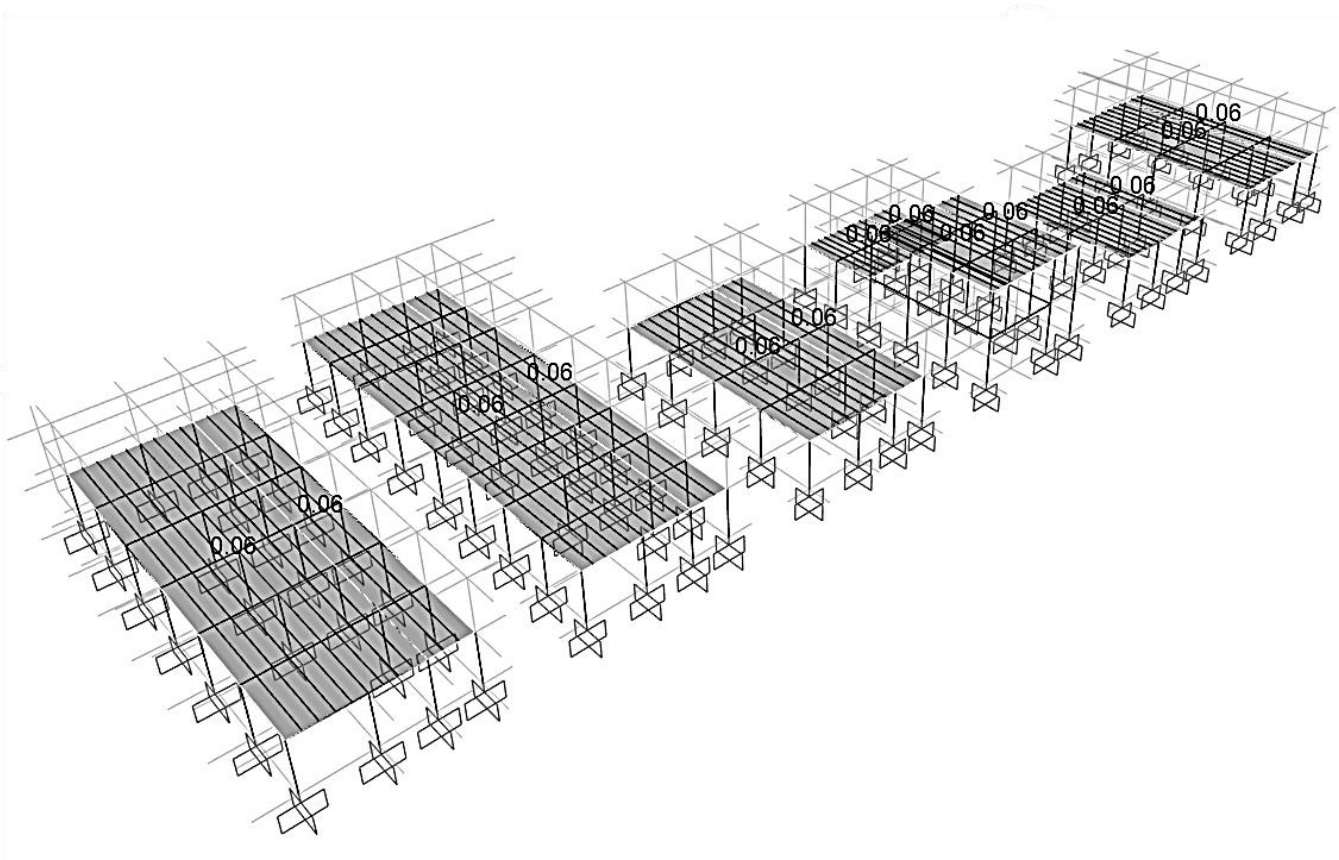
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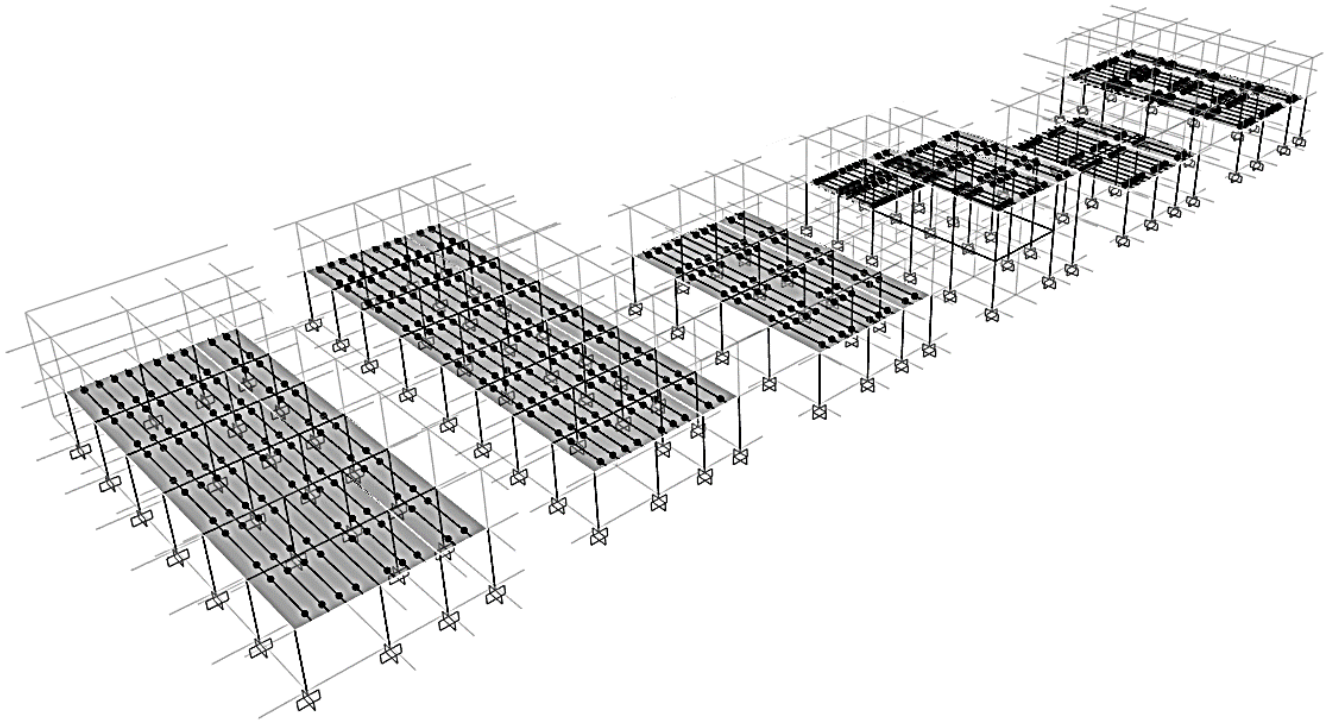
NUMERACIÓN POINTS



ASIGNACIÓN CARGA MUERTA <ton/m²>



ASIGNACIÓN CARGA VIVA <ton/m²>



RELEASES (PINNED) CORREAS

DATOS DE ENTRADA

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$ File C:\Users\César\Documents\155-ESTRUCTURAS I.E.D LUIS A. VALBUENA_LA VEGA\ESTRUCTURAS\MODELOS MATEMATICOS I.E.D VALBUENA\TODOS MODELOS I.E.D VALBUENA_RURAL\MODELOS  IED VALBUENA_RURAL.$et saved 24/11/2024 8:27:14 p. m.

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  GENGRID "G1"  X1 54.19002 Y1 -6.549555 X2 66.89002 Y2 -6.549555 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 22.941738 Y1 -5.799555 X2 36.090023 Y2 -5.799555 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 69.590096 Y1 -5.3495545 X2 81.38915 Y2 -5.3495545 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 38.790024 Y1 -5.2495546 X2 51.490025 Y2 -5.2495546 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 99.14002 Y1 -2.5445547 X2 112.34003 Y2 -2.5445547 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 54.19002 Y1 -2.4495547 X2 66.89002 Y2 -2.4495547 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 69.59003 Y1 -2.2995546 X2 81.38915 Y2 -2.2995546 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 22.941738 Y1 -1.5495547 X2 36.090023 Y2 -1.5495547 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 38.790024 Y1 -0.9995547 X2 51.490025 Y2 -0.9995547 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 22.941738 Y1 2.4504454 X2 36.090023 Y2 2.4504454 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 38.790024 Y1 3.2504454 X2 51.490025 Y2 3.2504454 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 22.941738 Y1 6.450445 X2 36.090023 Y2 6.450445 VISIBLE "Yes"  BUBBLELOC "Both"
  GENGRID "G1"  X1 38.790024 Y1 6.6504455 X2 51.490025 Y2 6.6504455 VISIBLE "Yes"  BUBBLELOC "Both"

$ DIAPHRAGM NAMES
  DIAPHRAGM "D1"    TYPE SEMIRIGID
  DIAPHRAGM "CUB1"    TYPE RIGID
  DIAPHRAGM "CUB2"    TYPE RIGID

$ MATERIAL PROPERTIES
  MATERIAL  "A500 Grado C (Rectangular)"    TYPE "Steel"    GRADE "Grade C"    WEIGHTPERVOLUME 7.85
  MATERIAL  "A500 Grado C (Rectangular)"    SYMTYPE "Isotropic"  E 20394324  U 0.3  A 1.1699999959091656E-05
  MATERIAL  "A500 Grado C (Rectangular)"  FY 35180.207  FU 43337.938 FYE 49252.293  FUE 56390.305
  MATERIAL  "A500 Grado C (Rectangular)"  HYSTYPE "Kinematic"  SSTYPE "Simple"  STRAINATHARDENING 0.015 STRAINATMAXSTRESS 0.11 STRAINATRUPTURE 0.17
FINALSLOPE -0.1 IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005 LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "F'c=3000 PSI"    TYPE "Concrete"    GRADE "F'c=3000 PSI"    WEIGHTPERVOLUME 2.4
  MATERIAL  "F'c=3000 PSI"    SYMTYPE "Isotropic"  E 1822441.9  U 0.2  A 9.899999895424116E-06
  MATERIAL  "F'c=3000 PSI"    FC 2141.404
  MATERIAL  "F'c=3000 PSI"  TIMEDEPCONCCODE "CEBFIP90"
  MATERIAL   "F'c=3000 PSI"   HYSTYPE "Concrete"   ENERGYDEGFACT 0  SSTYPE "Mander"   STRAINATFC 0.00221914 STRAINATULTIMATE 0.005 FINALSLOPE -0.1
IOTENSION 0.01 LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.003 LSCOMPRESSION 0.006 CPCOMPRESSION 0.015
  MATERIAL  "A615Gr60"    TYPE "Rebar"    GRADE "Grade 60"    WEIGHTPERVOLUME 7.8490477
  MATERIAL  "A615Gr60"    SYMTYPE "Uniaxial"  E 20389020  A 1.16999999590916 56E-05
  MATERIAL  "A615Gr60"  FY 42184.176  FU 63276.266 FYE 46402.594  FUE 69603.89
  MATERIAL   "A615Gr60"    HYSTYPE  "Kinematic"    SSTYPE  "Simple"    STRAINATHARDENING  0.01  STRAINATULTIMATE  0.09  FINALSLOPE  -0.1  IOTENSION  0.01
LSTENSION 0.02 CPTENSION 0.05 IOCOMPRESSION 0.005 LSCOMPRESSION 0.01 CPCOMPRESSION 0.02
  MATERIAL  "A416Gr270"    TYPE "Tendon"    GRADE "Grade 270"    WEIGHTPERVOLUME 7.8490477
  MATERIAL  "A416Gr270"    SYMTYPE "Uniaxial"  E 20037484  A 1.1699999959091656E-05
  MATERIAL  "A416Gr270"  FY 172322.36  FU 189828.8
  MATERIAL   "A416Gr270"  HYSTYPE "Kinematic"   SSTYPE "270ksi"   FINALSLOPE -0.1 IOTENSION 0.015 LSTENSION 0.023 CPTENSION 0.03 IOCOMPRESSION 0.015
LSCOMPRESSION 0.023 CPCOMPRESSION 0.03

$ REBAR DEFINITIONS
  REBARDEFINITION  "#2"  AREA  3.2E-05 DIA  0.00635
  REBARDEFINITION  "#3"  AREA  7E-05 DIA  0.009525
  REBARDEFINITION  "#4"  AREA  0.000129032 DIA  0.0127
  REBARDEFINITION  "#5"  AREA  0.000198 DIA  0.015875
  REBARDEFINITION  "#6"  AREA  0.000284 DIA  0.01905
  REBARDEFINITION  "#7"  AREA  0.000387 DIA  0.022225
  REBARDEFINITION  "#8"  AREA  0.00051 DIA  0.0254

$ FRAME SECTIONS
  FRAMESECTION  "COL 30x30"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.3 B 0.3
  FRAMESECTION  "COL 30x40"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.4 B 0.3
  FRAMESECTION  "COL ø = 30"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Circle"  D 0.3
  FRAMESECTION  "V 30x30"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.3 B 0.3
  FRAMESECTION  "V 30x35"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.35 B 0.3
  FRAMESECTION  "PED 40x40"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.4 B 0.4
  FRAMESECTION  "PED 40x50"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.5 B 0.4
  FRAMESECTION  "PTE 150x150x6mm"  MATERIAL "A500 Grado C (Rectangular)"  SHAPE "Steel Tube"  D 0.15 B 0.15 TF 0.006 TW 0.006 R 0.012
  FRAMESECTION  "PTE 100x200x6mm"  MATERIAL "A500 Grado C (Rectangular)"  SHAPE "Steel Tube"  D 0.2 B 0.1 TF 0.006 TW 0.006 R 0.012
  FRAMESECTION  "PTE 100x150x5mm"  MATERIAL "A500 Grado C (Rectangular)"  SHAPE "Steel Tube"  D 0.15 B 0.1 TF 0.005 TW 0.005 R 0.01
  FRAMESECTION  "V 30x40"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.4 B 0.3
  FRAMESECTION  "V 20x60"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Rectangular"  D 0.6 B 0.2
```

```
  FRAMESECTION  "COL ø = 40"  MATERIAL "F'c=3000 PSI"  SHAPE "Concrete Circle"  D 0.4

$ CONCRETE SECTIONS
  CONCRETESECTION  "COL 30x30"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"  PATTERN "R-3-3"  TRANSREINF "TIES"
DESIGNCHECK "DESIGN"  COVER 0.04 LONGBARAREA 0.000198 CORNERBARAREA 0.000284 CONFINEBARAREA 7E-05 CONFINEBARSPACING 0.1 NUMCONFINEBARS3
10 NUMCONFINEBARS2 10
  CONCRETESECTION  "COL 30x40"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"  PATTERN "R-4-3"  TRANSREINF "TIES"
DESIGNCHECK "DESIGN"  COVER 0.04 LONGBARAREA 0.000198 CORNERBARAREA 0.000284 CONFINEBARAREA 7E-05 CONFINEBARSPACING 0.1 NUMCONFINEBARS3
10 NUMCONFINEBARS2 10
  CONCRETESECTION  "COL ø = 30"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"  PATTERN "C-8"  TRANSREINF "TIES"
DESIGNCHECK "DESIGN"  COVER 0.04 LONGBARAREA 0.000198 CONFINEBARAREA 7.85E-05 CONFINEBARSPACING 0.15
  CONCRETESECTION  "V 30x30"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"  COVERTOP 0.06 COVERBOTTOM 0.06 ATI 3.2E-
05 ABI 3.2E-05 ATJ 3.2E-05 ABJ 3.2E-05
  CONCRETESECTION  "V 30x35"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"  COVERTOP 0.06 COVERBOTTOM 0.06 ATI 3.7E-
05 ABI 3.7E-05 ATJ 3.7E-05 ABJ 3.7E-05
  CONCRETESECTION  "PED 40x40"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"  PATTERN "R-3-3"  TRANSREINF "TIES"
DESIGNCHECK  "DESIGN"  COVER 0.075 LONGBARAREA 0.000198 CORNERBARAREA 0.000284 CONFINEBARAREA 7E-05 CONFINEBARSPACING 0.1
NUMCONFINEBARS3 10 NUMCONFINEBARS2 10
  CONCRETESECTION  "PED 40x50"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"  PATTERN "R-4-3"  TRANSREINF "TIES"
DESIGNCHECK "DESIGN"  COVER 0.04 LONGBARAREA 0.000198 CORNERBARAREA 0.000284 CONFINEBARAREA 7E-05 CONFINEBARSPACING 0.1 NUMCONFINEBARS3
10 NUMCONFINEBARS2 10
  CONCRETESECTION  "V 30x40"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"  COVERTOP 0.06 COVERBOTTOM 0.06 ATI 3.7E-
05 ABI 3.7E-05 ATJ 3.7E-05 ABJ 3.7E-05
  CONCRETESECTION  "V 20x60"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Beam"  COVERTOP 0.06 COVERBOTTOM 0.06 ATI 4.2E-
05 ABI 4.2E-05 ATJ 4.2E-05 ABJ 4.2E-05
  CONCRETESECTION  "COL ø = 40"  LONGBARMATERIAL "A615Gr60"  CONFINEBARMATERIAL "A615Gr60"  TYPE "Column"  PATTERN "C-10"  TRANSREINF "TIES"
DESIGNCHECK "DESIGN"  COVER 0.04 LONGBARAREA 0.000284 CONFINEBARAREA 7E-05 CONFINEBARSPACING 0.15

$ SLAB PROPERTIES
  SHELLPROP  "TEJA"  PROPTYPE  "Slab"  MATERIAL "F'c=3000 PSI"  MODELINGTYPE "Membrane"  ONEWAYLOADDIST "Yes"  SLABTYPE "Slab"  SLABTHICKNESS 0.01

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  POINT "6"  28.990023 -18.749556
  POINT "7"  29.727524 -18.749556
  POINT "8"  30.465023 -18.749556
  POINT "9"  31.202522 -18.749556
  POINT "10"  31.940023 -18.749556
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  POINT "12"  33.60669 -18.749556
  POINT "13"  34.44002 -18.749556
  POINT "14"  40.44002 -18.749556
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  POINT "19"  44.240025 -18.749556
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  AREA "F3" FLOOR 4 "52" "61" "252" "243" 0 0 0 0
  AREA "F4" FLOOR 4 "61" "64" "255" "252" 0 0 0 0
  AREA "F5" FLOOR 4 "65" "74" "330" "321" 0 0 0 0
  AREA "F6" FLOOR 4 "74" "77" "333" "330" 0 0 0 0
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  AREA "F8" FLOOR 4 "36" "39" "346" "343" 0 0 0 0
  AREA "F9" FLOOR 4 "1" "10" "421" "412" 0 0 0 0
  AREA "F10" FLOOR 4 "10" "13" "424" "421" 0 0 0 0
  AREA "F11" FLOOR 4 "230" "239" "356" "347" 0 0 0 0
  AREA "F12" FLOOR 4 "239" "242" "359" "356" 0 0 0 0
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  POINTASSIGN "450" "Base" RESTRAINT "UX UY UZ RX RY RZ"
  POINTASSIGN "40" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "91" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "168" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "230" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "48" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "99" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "176" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "239" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "51" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "102" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "179" "CUB-2" USERJOINT "Yes"
  POINTASSIGN "242" "CUB-2" USERJOINT "Yes"

$ LINE ASSIGNS
  LINEASSIGN "C1" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.598546E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C36" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -9.985584E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C56" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.985584E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C76" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.869473E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C98" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.975908E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C106" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -9.888825E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C113" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.830769E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C5" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893159E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C24" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8930783E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C43" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893559E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C60" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.893399E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C83" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C102" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8933087E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C109" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C117" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C6" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893159E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C44" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893559E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "C84" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
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LINEASSIGN "C103" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8933087E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C110" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C7" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893159E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C25" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8930783E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C45" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893559E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C61" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.893399E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C85" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C104" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8933087E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C111" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C118" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C8" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.893159E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C26" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8930783E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C46" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.893559E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C62" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.893399E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C86" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C105" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8933087E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C112" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C119" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C23" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.810011E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C35" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.819495E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C55" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.829518E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C72" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.819803E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C90" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8196876E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C2" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.598546E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C57" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.985584E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C77" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.869473E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C99" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.975908E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C114" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.830769E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C3" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.598546E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C37" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -9.985584E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C58" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.985584E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C78" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.869473E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C100" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.975908E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C107" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -9.888825E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C115" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -9.830769E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C4" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -9.598546E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C38" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -9.985584E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C59" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -9.985584E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C79" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -9.869473E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C101" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -9.975908E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C108" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -9.888825E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C116" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -9.830769E-13 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C9" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8929984E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C30" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8930783E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C50" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.893559E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C73" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C91" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C10" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8929984E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C92" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C11" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8929984E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C31" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8930783E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C51" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.893559E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C74" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C93" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C12" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8929984E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C32" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8930783E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C52" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.893559E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C75" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8933187E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C94" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.893279E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C13" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C27" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.856529E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C47" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C63" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.878784E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C80" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.867657E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C95" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.867549E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C14" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C28" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.856529E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C48" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C64" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.878784E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C81" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.867657E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C96" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.867549E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C15" "CUB-1" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C29" "CUB-1" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.856529E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C49" "CUB-1" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C65" "CUB-1" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.878784E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C82" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.867657E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C97" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.867549E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C16" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.845893E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C39" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8463046E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C66" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8460576E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C17" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.845893E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C40" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8463046E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C67" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8460576E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C18" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.845893E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C41" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8463046E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C68" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8460576E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C19" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.845893E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C42" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8463046E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
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LINEASSIGN "C69" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 ANG -6.8460576E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C20" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.810011E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C33" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.819495E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C53" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.829518E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C70" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.819803E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C87" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8196876E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C21" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.810011E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C88" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8196876E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C22" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.810011E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C34" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.819495E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C54" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.829518E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C71" "CUB-1" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.819803E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C89" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 ANG -6.8196876E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C120" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C121" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C122" "CUB-1" SECTION "COL 30x30" RIGIDZONE 1 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C123" "CUB-1" SECTION "COL ø = 30" RIGIDZONE 1 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B68" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B156" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B249" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B338" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B377" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B407" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B73" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B161" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B254" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B343" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B382" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B412" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B77" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B165" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B258" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B347" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B386" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B416" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B80" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B168" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B261" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B350" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B389" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B419" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B1" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B2" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B3" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B102" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B103" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B215" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B216" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B217" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B292" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B293" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B294" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B372" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B373" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B374" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B403" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B404" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B433" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B434" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B435" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B17" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B107" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B190" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B275" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B351" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B390" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B420" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B438" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B26" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B116" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B199" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B284" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B360" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B399" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B429" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B447" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B29" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B119" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B202" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B287" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B363" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B402" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B432" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B450" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B451" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B452" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B4" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B5" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
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LINEASSIGN "B94" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B95" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B169" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B170" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B230" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B231" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B297" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B298" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B375" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B376" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B405" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B406" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B436" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B437" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B312" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B232" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B132" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B42" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B317" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B47" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B321" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B240" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B140" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B51" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B324" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B243" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B143" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B54" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B6" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B7" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B8" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B98" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B99" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B186" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B187" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B290" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B291" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B367" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B368" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B369" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B325" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B262" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B203" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B120" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B30" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B334" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B271" "CUB-1" SECTION "V 20x60" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B211" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B128" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B38" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B337" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B274" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B9" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B245" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B296" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B370" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B371" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B67" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B155" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B229" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B311" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B299" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B218" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B144" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B55" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B303" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B59" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B308" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B226" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B152" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B64" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B14" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B15" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B16" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B100" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B101" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B188" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B189" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B288" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B289" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B364" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B365" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B366" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B173" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B81" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B178" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B86" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B182" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
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LINEASSIGN "B90" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B185" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B93" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B11" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B12" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B13" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B104" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B105" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B106" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B246" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B247" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B248" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B295" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B244" "CUB-1" SECTION "V 30x35" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B22" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B112" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B195" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B280" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B356" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B395" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B425" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B443" "CUB-1" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C13" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C27" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.856529E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C47" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C63" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.878784E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C14" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C28" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.856529E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C48" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C64" "CUB-2" SECTION "COL 30x40" RIGIDZONE 1 ANG -6.878784E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C15" "CUB-2" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C29" "CUB-2" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.856529E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C49" "CUB-2" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.8672257E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "C65" "CUB-2" SECTION "COL ø = 40" RIGIDZONE 1 ANG -6.878784E-10 MINNUMSTA 3 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B203" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B120" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B30" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B211" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B128" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B38" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B214" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B131" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B41" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B9" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B10" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B96" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B97" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B171" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B172" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B244" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B245" "CUB-2" SECTION "V 30x30" CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B74" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B75" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B76" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B162" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B163" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B164" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B255" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B256" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B257" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B344" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B345" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B346" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B383" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B384" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B385" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B413" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B414" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B415" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B259" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B260" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B348" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B349" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B387" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B388" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B417" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B418" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B166" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B167" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B78" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B79" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B69" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B70" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B71" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B72" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B157" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B158" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B159" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
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LINEASSIGN "B160" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B250" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B251" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B252" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B253" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B339" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B340" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B341" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B342" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B378" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B379" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B380" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B381" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B408" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B409" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B410" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B411" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B18" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B19" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B20" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B21" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B108" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B109" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B110" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B111" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B191" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B192" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B193" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B194" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B276" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B277" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B278" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B279" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B352" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B353" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B354" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B355" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B391" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B392" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B393" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B394" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B421" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B422" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B423" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B424" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B439" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B440" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B441" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B442" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B23" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B24" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B25" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B113" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B114" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B115" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B196" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B197" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B198" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B281" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B282" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B283" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B357" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B358" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B359" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B396" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B397" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B398" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B426" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B427" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B428" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B444" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B445" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B446" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B27" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B28" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B117" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B118" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B200" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B201" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B285" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B286" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B361" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B362" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B400" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B401" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B430" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B431" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B448" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
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LINEASSIGN "B449" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B52" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B53" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B141" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B142" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B241" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B242" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B322" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B323" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B272" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B273" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B335" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B336" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B91" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B92" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B183" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B184" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B66" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B65" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B154" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B153" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B228" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B227" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B310" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B309" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B39" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B40" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B129" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B130" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B212" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B213" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B31" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B32" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B33" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B121" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B122" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B123" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B204" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B205" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B206" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B34" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B35" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B36" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B37" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B124" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B125" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B126" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B127" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B207" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B208" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B209" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B210" "CUB-2" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B43" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B44" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B45" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B46" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B133" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B134" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B135" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B136" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B233" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B234" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B235" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B236" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B313" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B314" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B315" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B316" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B48" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B49" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B50" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B137" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B138" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B139" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B237" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B238" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B239" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B318" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B319" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B320" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B263" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B264" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B265" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B326" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B327" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B328" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B267" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
LINEASSIGN "B268" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
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  LINEASSIGN "B269" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B270" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B330" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B331" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B332" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B333" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B82" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B83" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B84" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B85" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B174" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B175" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B176" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B177" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B87" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B88" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B89" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B179" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B180" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B181" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B56" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B57" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B58" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B145" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B146" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B147" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B219" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B220" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B221" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B300" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B301" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B302" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B60" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B61" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B62" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B63" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B148" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B149" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B150" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B151" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B222" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B223" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B224" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B225" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B304" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B305" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B306" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B307" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B329" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"
  LINEASSIGN "B266" "CUB-1" SECTION "PTE 100x150x5mm" RELEASE "PINNED"CARDINALPT 8 MAXSTASPC 0.5 AUTOMESH "YES" MESHATINTERSECTIONS "YES"

$ AREA ASSIGNS
  AREAASSIGN "F9" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F10" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F13" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F14" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F7" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F8" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F11" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F12" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F1" "CUB-2" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F2" "CUB-2" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F3" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F4" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F5" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"
  AREAASSIGN "F6" "CUB-1" SECTION "TEJA" OBJMESHTYPE "DEFAULT" ADDRESTRAINT "No" CARDINALPOINT "TOP" TRANSFORMSTIFFNESSFOROFFSETS "No"

$ LOAD PATTERNS
  LOADPATTERN "PP" TYPE "Dead" SELFWEIGHT 1.05
  LOADPATTERN "CM" TYPE "Super Dead" SELFWEIGHT 0
  LOADPATTERN "CV" TYPE "Live" SELFWEIGHT 0
  LOADPATTERN "CW" TYPE "Wind" SELFWEIGHT 0
  LOADPATTERN "CG" TYPE "Snow" SELFWEIGHT 0
  LOADPATTERN "SX" TYPE "Seismic" SELFWEIGHT 0
  LOADPATTERN "SY" TYPE "Seismic" SELFWEIGHT 0
  SEISMIC "SX" "User Coefficient"  DIR "X+ECC" ECC 0.05 TOPSTORY "CUB-2"  BOTTOMSTORY "Base"  SHEARCOEFF 0.98 HEIGHTEXPONENT 1
  SEISMIC "SY" "User Coefficient"  DIR "Y+ECC" ECC 0.05 TOPSTORY "CUB-2"  BOTTOMSTORY "Base"  SHEARCOEFF 0.98 HEIGHTEXPONENT 1

$ POINT OBJECT LOADS

$ FRAME OBJECT LOADS
  LINELOAD "B203" "CUB-1" TYPE "UNIFF" DIR "GRAV" LC "CM" FVAL 0.69
  LINELOAD "B120" "CUB-1" TYPE "UNIFF" DIR "GRAV" LC "CM" FVAL 0.69
  LINELOAD "B30" "CUB-1" TYPE "UNIFF" DIR "GRAV" LC "CM" FVAL 0.69
  LINELOAD "B211" "CUB-1" TYPE "UNIFF" DIR "GRAV" LC "CM" FVAL 0.69
  LINELOAD "B128" "CUB-1" TYPE "UNIFF" DIR "GRAV" LC "CM" FVAL 0.69
  LINELOAD "B38" "CUB-1" TYPE "UNIFF" DIR "GRAV" LC "CM" FVAL 0.69
  LINELOAD "B9" "CUB-1" TYPE "UNIFF" DIR "GRAV" LC "CM" FVAL 0.69
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  LINELOAD  "B245"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.23
  LINELOAD  "B244"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.69

$ SHELL OBJECT LOADS
  AREALOAD  "F9"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F9"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F9"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F9"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F10"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F10"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F10"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F10"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F13"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F13"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F13"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F13"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F14"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F14"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F14"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F14"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F7"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F7"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F7"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F7"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F8"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F8"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F8"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F8"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F11"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F11"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F11"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F11"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F12"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F12"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F12"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F12"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F1"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F1"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F1"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F1"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F2"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F2"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F2"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F2"  "CUB-2"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F3"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F3"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F3"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F3"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F4"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F4"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F4"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F4"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F5"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F5"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F5"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F5"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06
  AREALOAD  "F6"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CM"  FVAL 0.09
  AREALOAD  "F6"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CV"  FVAL 0.06
  AREALOAD  "F6"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CW"  FVAL 0.06
  AREALOAD  "F6"  "CUB-1"  TYPE "UNIFF"  DIR "GRAV"  LC "CG"  FVAL 0.06

$ ANALYSIS OPTIONS
  ACTIVEDOF "UX UY UZ RX RY RZ"
  MODELHINGESINLINKS "Yes"  HINGEDAMPINGOPTION "KT"
  PDELTA  METHOD "NONE"
  AUTOMESHOPTIONS  MESHTYPE  "GENERAL"  FLOORMESHMAXSIZE  1.25 WALLMESHMAXSIZE  1.25

$ MASS SOURCE
  MASSSOURCE  "MsSrc1"    INCLUDEELEMENTS "Yes"    INCLUDEADDEDMASS "Yes"    INCLUDELOADS "No"    INCLUDEMOVE "No"    INCLUDELATERALMASS "Yes"
INCLUDEVERTICALMASS "No"    LUMPATSTORIES "Yes"
  MASSSOURCE  "MASA"    INCLUDEELEMENTS "No"    INCLUDEADDEDMASS "No"    INCLUDELOADS "Yes"    INCLUDEMOVE "No"    INCLUDELATERALMASS "Yes"
INCLUDEVERTICALMASS "No"    LUMPATSTORIES "Yes"    ISDEFAULT "Yes"
  MASSSOURCELOAD  "MASA"  "PP"  1
  MASSSOURCELOAD  "MASA"  "CM"  1

$ FUNCTIONS
  FUNCTION "RampTH"  FUNCTYPE "HISTORY"  HISTTYPE "USER"
  FUNCTION "RampTH"  TIMEVAL "0  0  1  1  4  1"
  FUNCTION "UnifTH"  FUNCTYPE "HISTORY"  HISTTYPE "USER"
  FUNCTION "UnifTH"  TIMEVAL "0  1  1  1"
  FUNCTION "UnifRS"  FUNCTYPE "SPECTRUM"  DAMPRATIO 0.05  SPECTYPE "USER"
  FUNCTION "UnifRS"  TIMEVAL "0  1  1  1  0  1  1  1  0  1  1  1"

$ LOAD CASES
  LOADCASE "Modal"  TYPE  "Modal - Eigen"  INITCOND  "PRESET"
  LOADCASE "Modal"  MAXMODES  12 MINMODES  1 EIGENSHIFTFREQ  0 EIGENCUTOFF  0 EIGENTOL  1E-09
  LOADCASE "CM"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "CM"  LOADPAT  "PP"  SF  1
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  LOADCASE "CM"  LOADPAT  "CM"  SF  1
  LOADCASE "CV"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "CV"  LOADPAT  "CV"  SF  1
  LOADCASE "CW"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "CW"  LOADPAT  "CW"  SF  1
  LOADCASE "CG"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "CG"  LOADPAT  "CG"  SF  1
  LOADCASE "SX"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "SX"  LOADPAT  "SX"  SF  1
  LOADCASE "SY"  TYPE  "Linear Static"  INITCOND  "PRESET"
  LOADCASE "SY"  LOADPAT  "SY"  SF  1

$ LOAD COMBINATIONS
  COMBO "1.0CM+1.0CV"  TYPE "Linear Add"
  COMBO "1.0CM+1.0CV"  DESIGN "Steel"  COMBOTYPE "Strength"  COMBOTYPE "Deflection"
  COMBO "1.0CM+1.0CV"  LOADCASE "CM"  SF 1
  COMBO "1.0CM+1.0CV"  LOADCASE "CV"  SF 1
  COMBO "1.0SX"  TYPE "Linear Add"
  COMBO "1.0SX"  LOADCASE "SX"  SF 1
  COMBO "1.0SY"  TYPE "Linear Add"
  COMBO "1.0SY"  LOADCASE "SY"  SF 1
  COMBO "1.20CM+1.60CV"  TYPE "Linear Add"
  COMBO "1.20CM+1.60CV"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "1.20CM+1.60CV"  LOADCASE "CM"  SF 1.2
  COMBO "1.20CM+1.60CV"  LOADCASE "CV"  SF 1.6
  COMBO "DER1"  TYPE "Linear Add"
  COMBO "DER1"  LOADCASE "CM"  SF 1.4
  COMBO "DER2"  TYPE "Linear Add"
  COMBO "DER2"  LOADCASE "CM"  SF 1
  COMBO "DER2"  LOADCASE "CV"  SF 1
  COMBO "DER2"  LOADCASE "CG"  SF 0.5
  COMBO "DER3"  TYPE "Linear Add"
  COMBO "DER3"  LOADCASE "CM"  SF 1
  COMBO "DER3"  LOADCASE "CV"  SF 1
  COMBO "DER3"  LOADCASE "CW"  SF 0.5
  COMBO "DER4"  TYPE "Linear Add"
  COMBO "DER4"  LOADCASE "CM"  SF 1
  COMBO "DER4"  LOADCASE "CV"  SF 1
  COMBO "DER4"  LOADCASE "CG"  SF 0.5
  COMBO "DER4"  LOADCASE "CW"  SF 0.5
  COMBO "DER5"  TYPE "Linear Add"
  COMBO "DER5"  LOADCASE "CM"  SF 1
  COMBO "DER5"  LOADCASE "CV"  SF 1
  COMBO "DER5"  LOADCASE "SX"  SF 1
  COMBO "DER5"  LOADCASE "SY"  SF 0.3
  COMBO "DER6"  TYPE "Linear Add"
  COMBO "DER6"  LOADCASE "CM"  SF 1
  COMBO "DER6"  LOADCASE "CV"  SF 1
  COMBO "DER6"  LOADCASE "SX"  SF 1
  COMBO "DER6"  LOADCASE "SY"  SF -0.3
  COMBO "DER7"  TYPE "Linear Add"
  COMBO "DER7"  LOADCASE "CM"  SF 1
  COMBO "DER7"  LOADCASE "CV"  SF 1
  COMBO "DER7"  LOADCASE "SX"  SF -1
  COMBO "DER7"  LOADCASE "SY"  SF 0.3
  COMBO "DER8"  TYPE "Linear Add"
  COMBO "DER8"  LOADCASE "CM"  SF 1
  COMBO "DER8"  LOADCASE "CV"  SF 1
  COMBO "DER8"  LOADCASE "SX"  SF -1
  COMBO "DER8"  LOADCASE "SY"  SF -0.3
  COMBO "DER9"  TYPE "Linear Add"
  COMBO "DER9"  LOADCASE "CM"  SF 0.9
  COMBO "DER9"  LOADCASE "SX"  SF 1
  COMBO "DER9"  LOADCASE "SY"  SF 0.3
  COMBO "DER10"  TYPE "Linear Add"
  COMBO "DER10"  LOADCASE "CM"  SF 0.9
  COMBO "DER10"  LOADCASE "SX"  SF 1
  COMBO "DER10"  LOADCASE "SY"  SF -0.3
  COMBO "DER11"  TYPE "Linear Add"
  COMBO "DER11"  LOADCASE "CM"  SF 0.9
  COMBO "DER11"  LOADCASE "SX"  SF -1
  COMBO "DER11"  LOADCASE "SY"  SF 0.3
  COMBO "DER12"  TYPE "Linear Add"
  COMBO "DER12"  LOADCASE "CM"  SF 0.9
  COMBO "DER12"  LOADCASE "SX"  SF -1
  COMBO "DER12"  LOADCASE "SY"  SF -0.3
  COMBO "DER13"  TYPE "Linear Add"
  COMBO "DER13"  LOADCASE "CM"  SF 1
  COMBO "DER13"  LOADCASE "CV"  SF 1
  COMBO "DER13"  LOADCASE "SY"  SF 1
  COMBO "DER13"  LOADCASE "SX"  SF 0.3
  COMBO "DER14"  TYPE "Linear Add"
  COMBO "DER14"  LOADCASE "CM"  SF 1
  COMBO "DER14"  LOADCASE "CV"  SF 1
  COMBO "DER14"  LOADCASE "SY"  SF 1
  COMBO "DER14"  LOADCASE "SX"  SF -0.3
  COMBO "DER15"  TYPE "Linear Add"
  COMBO "DER15"  LOADCASE "CM"  SF 1
```

```
COMBO "DER15"  LOADCASE "CV"  SF 1
COMBO "DER15"  LOADCASE "SY"  SF -1
COMBO "DER15"  LOADCASE "SX"  SF 0.3
COMBO "DER16"  TYPE "Linear Add"
COMBO "DER16"  LOADCASE "CM"  SF 1
COMBO "DER16"  LOADCASE "CV"  SF 1
COMBO "DER16"  LOADCASE "SY"  SF -1
COMBO "DER16"  LOADCASE "SX"  SF -0.3
COMBO "DER17"  TYPE "Linear Add"
COMBO "DER17"  LOADCASE "CM"  SF 0.9
COMBO "DER17"  LOADCASE "SY"  SF 1
COMBO "DER17"  LOADCASE "SX"  SF 0.3
COMBO "DER18"  TYPE "Linear Add"
COMBO "DER18"  LOADCASE "CM"  SF 0.9
COMBO "DER18"  LOADCASE "SY"  SF 1
COMBO "DER18"  LOADCASE "SX"  SF -0.3
COMBO "DER19"  TYPE "Linear Add"
COMBO "DER19"  LOADCASE "CM"  SF 0.9
COMBO "DER19"  LOADCASE "SY"  SF -1
COMBO "DER19"  LOADCASE "SX"  SF 0.3
COMBO "DER20"  TYPE "Linear Add"
COMBO "DER20"  LOADCASE "CM"  SF 0.9
COMBO "DER20"  LOADCASE "SY"  SF -1
COMBO "DER20"  LOADCASE "SX"  SF -0.3
COMBO "DER21"  TYPE "Linear Add"
COMBO "DER21"  LOADCASE "CM"  SF 1.2
COMBO "DER21"  LOADCASE "CV"  SF 1.6
COMBO "DER22"  TYPE "Linear Add"
COMBO "DER22"  LOADCASE "CM"  SF 1
COMBO "DER22"  LOADCASE "CV"  SF 1
COMBO "DER -X-"  TYPE "Envelope"
COMBO "DER -X-"  LOADCOMBO "DER1"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER2"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER3"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER4"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER5"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER6"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER7"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER8"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER9"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER10"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER11"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER12"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER21"  SF 1
COMBO "DER -X-"  LOADCOMBO "DER22"  SF 1
COMBO "DER -Y-"  TYPE "Envelope"
COMBO "DER -Y-"  LOADCOMBO "DER1"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER2"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER3"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER4"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER13"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER14"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER15"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER16"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER17"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER18"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER19"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER20"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER21"  SF 1
COMBO "DER -Y-"  LOADCOMBO "DER22"  SF 1
COMBO "DIS1"  TYPE "Linear Add"
COMBO "DIS1"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS1"  LOADCASE "CM"  SF 1.4
COMBO "DIS2"  TYPE "Linear Add"
COMBO "DIS2"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS2"  LOADCASE "CM"  SF 1
COMBO "DIS2"  LOADCASE "CV"  SF 1
COMBO "DIS2"  LOADCASE "CG"  SF 0.5
COMBO "DIS3"  TYPE "Linear Add"
COMBO "DIS3"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS3"  LOADCASE "CM"  SF 1
COMBO "DIS3"  LOADCASE "CV"  SF 1
COMBO "DIS3"  LOADCASE "CW"  SF 0.5
COMBO "DIS4"  TYPE "Linear Add"
COMBO "DIS4"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS4"  LOADCASE "CM"  SF 1
COMBO "DIS4"  LOADCASE "CV"  SF 1
COMBO "DIS4"  LOADCASE "CG"  SF 0.5
COMBO "DIS4"  LOADCASE "CW"  SF 0.5
COMBO "DIS5"  TYPE "Linear Add"
COMBO "DIS5"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS5"  LOADCASE "CM"  SF 1
COMBO "DIS5"  LOADCASE "CV"  SF 1
COMBO "DIS5"  LOADCASE "SX"  SF 0.33
COMBO "DIS5"  LOADCASE "SY"  SF 0.1
COMBO "DIS6"  TYPE "Linear Add"
COMBO "DIS6"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS6"  LOADCASE "CM"  SF 1
```

```
COMBO "DIS6"  LOADCASE "CV"  SF 1
COMBO "DIS6"  LOADCASE "SX"  SF 0.33
COMBO "DIS6"  LOADCASE "SY"  SF -0.1
COMBO "DIS7"  TYPE "Linear Add"
COMBO "DIS7"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS7"  LOADCASE "CM"  SF 1
COMBO "DIS7"  LOADCASE "CV"  SF 1
COMBO "DIS7"  LOADCASE "SX"  SF -0.33
COMBO "DIS7"  LOADCASE "SY"  SF 0.1
COMBO "DIS8"  TYPE "Linear Add"
COMBO "DIS8"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS8"  LOADCASE "CM"  SF 1
COMBO "DIS8"  LOADCASE "CV"  SF 1
COMBO "DIS8"  LOADCASE "SX"  SF -0.33
COMBO "DIS8"  LOADCASE "SY"  SF -0.1
COMBO "DIS9"  TYPE "Linear Add"
COMBO "DIS9"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS9"  LOADCASE "CM"  SF 0.9
COMBO "DIS9"  LOADCASE "SX"  SF 0.33
COMBO "DIS9"  LOADCASE "SY"  SF 0.1
COMBO "DIS10"  TYPE "Linear Add"
COMBO "DIS10"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS10"  LOADCASE "CM"  SF 0.9
COMBO "DIS10"  LOADCASE "SX"  SF 0.33
COMBO "DIS10"  LOADCASE "SY"  SF -0.1
COMBO "DIS11"  TYPE "Linear Add"
COMBO "DIS11"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS11"  LOADCASE "CM"  SF 0.9
COMBO "DIS11"  LOADCASE "SX"  SF -0.33
COMBO "DIS11"  LOADCASE "SY"  SF 0.1
COMBO "DIS12"  TYPE "Linear Add"
COMBO "DIS12"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS12"  LOADCASE "CM"  SF 0.9
COMBO "DIS12"  LOADCASE "SX"  SF -0.33
COMBO "DIS12"  LOADCASE "SY"  SF -0.1
COMBO "DIS13"  TYPE "Linear Add"
COMBO "DIS13"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS13"  LOADCASE "CM"  SF 1
COMBO "DIS13"  LOADCASE "CV"  SF 1
COMBO "DIS13"  LOADCASE "SY"  SF 0.33
COMBO "DIS13"  LOADCASE "SX"  SF 0.1
COMBO "DIS14"  TYPE "Linear Add"
COMBO "DIS14"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS14"  LOADCASE "CM"  SF 1
COMBO "DIS14"  LOADCASE "CV"  SF 1
COMBO "DIS14"  LOADCASE "SY"  SF 0.33
COMBO "DIS14"  LOADCASE "SX"  SF -0.1
COMBO "DIS15"  TYPE "Linear Add"
COMBO "DIS15"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS15"  LOADCASE "CM"  SF 1
COMBO "DIS15"  LOADCASE "CV"  SF 1
COMBO "DIS15"  LOADCASE "SY"  SF -0.33
COMBO "DIS15"  LOADCASE "SX"  SF 0.1
COMBO "DIS16"  TYPE "Linear Add"
COMBO "DIS16"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS16"  LOADCASE "CM"  SF 1
COMBO "DIS16"  LOADCASE "CV"  SF 1
COMBO "DIS16"  LOADCASE "SY"  SF -0.33
COMBO "DIS16"  LOADCASE "SX"  SF -0.1
COMBO "DIS17"  TYPE "Linear Add"
COMBO "DIS17"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS17"  LOADCASE "CM"  SF 0.9
COMBO "DIS17"  LOADCASE "SY"  SF 0.33
COMBO "DIS17"  LOADCASE "SX"  SF 0.1
COMBO "DIS18"  TYPE "Linear Add"
COMBO "DIS18"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS18"  LOADCASE "CM"  SF 0.9
COMBO "DIS18"  LOADCASE "SY"  SF 0.33
COMBO "DIS18"  LOADCASE "SX"  SF -0.1
COMBO "DIS19"  TYPE "Linear Add"
COMBO "DIS19"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS19"  LOADCASE "CM"  SF 0.9
COMBO "DIS19"  LOADCASE "SY"  SF -0.33
COMBO "DIS19"  LOADCASE "SX"  SF 0.1
COMBO "DIS20"  TYPE "Linear Add"
COMBO "DIS20"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS20"  LOADCASE "CM"  SF 0.9
COMBO "DIS20"  LOADCASE "SY"  SF -0.33
COMBO "DIS20"  LOADCASE "SX"  SF -0.1
COMBO "DIS21"  TYPE "Linear Add"
COMBO "DIS21"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS21"  LOADCASE "CM"  SF 1.2
COMBO "DIS21"  LOADCASE "CV"  SF 1.6
COMBO "DIS22"  TYPE "Linear Add"
COMBO "DIS22"  DESIGN "Concrete"  COMBOTYPE "Strength"
COMBO "DIS22"  LOADCASE "CM"  SF 1
COMBO "DIS22"  LOADCASE "CV"  SF 1
COMBO "CV1"  TYPE "Linear Add"
```

```
COMBO "CV1"  LOADCASE "CM"  SF 1.4
COMBO "CV2"  TYPE "Linear Add"
COMBO "CV2"  LOADCASE "CM"  SF 1
COMBO "CV2"  LOADCASE "CV"  SF 1
COMBO "CV2"  LOADCASE "CG"  SF 0.5
COMBO "CV3"  TYPE "Linear Add"
COMBO "CV3"  LOADCASE "CM"  SF 1
COMBO "CV3"  LOADCASE "CV"  SF 1
COMBO "CV3"  LOADCASE "CW"  SF 0.5
COMBO "CV4"  TYPE "Linear Add"
COMBO "CV4"  LOADCASE "CM"  SF 1
COMBO "CV4"  LOADCASE "CV"  SF 1
COMBO "CV4"  LOADCASE "CG"  SF 0.5
COMBO "CV4"  LOADCASE "CW"  SF 0.5
COMBO "CV5"  TYPE "Linear Add"
COMBO "CV5"  LOADCASE "CM"  SF 1
COMBO "CV5"  LOADCASE "CV"  SF 1
COMBO "CV5"  LOADCASE "SX"  SF 0.66
COMBO "CV5"  LOADCASE "SY"  SF 0.2
COMBO "CV6"  TYPE "Linear Add"
COMBO "CV6"  LOADCASE "CM"  SF 1
COMBO "CV6"  LOADCASE "CV"  SF 1
COMBO "CV6"  LOADCASE "SX"  SF 0.66
COMBO "CV6"  LOADCASE "SY"  SF -0.2
COMBO "CV7"  TYPE "Linear Add"
COMBO "CV7"  LOADCASE "CM"  SF 1
COMBO "CV7"  LOADCASE "CV"  SF 1
COMBO "CV7"  LOADCASE "SX"  SF -0.66
COMBO "CV7"  LOADCASE "SY"  SF 0.2
COMBO "CV8"  TYPE "Linear Add"
COMBO "CV8"  LOADCASE "CM"  SF 1
COMBO "CV8"  LOADCASE "CV"  SF 1
COMBO "CV8"  LOADCASE "SX"  SF -0.66
COMBO "CV8"  LOADCASE "SY"  SF -0.2
COMBO "CV9"  TYPE "Linear Add"
COMBO "CV9"  LOADCASE "CM"  SF 0.9
COMBO "CV9"  LOADCASE "SX"  SF 0.66
COMBO "CV9"  LOADCASE "SY"  SF 0.2
COMBO "CV10"  TYPE "Linear Add"
COMBO "CV10"  LOADCASE "CM"  SF 0.9
COMBO "CV10"  LOADCASE "SX"  SF 0.66
COMBO "CV10"  LOADCASE "SY"  SF -0.2
COMBO "CV11"  TYPE "Linear Add"
COMBO "CV11"  LOADCASE "CM"  SF 0.9
COMBO "CV11"  LOADCASE "SX"  SF -0.66
COMBO "CV11"  LOADCASE "SY"  SF 0.2
COMBO "CV12"  TYPE "Linear Add"
COMBO "CV12"  LOADCASE "CM"  SF 0.9
COMBO "CV12"  LOADCASE "SX"  SF -0.66
COMBO "CV12"  LOADCASE "SY"  SF -0.2
COMBO "CV13"  TYPE "Linear Add"
COMBO "CV13"  LOADCASE "CM"  SF 1
COMBO "CV13"  LOADCASE "CV"  SF 1
COMBO "CV13"  LOADCASE "SY"  SF 0.66
COMBO "CV13"  LOADCASE "SX"  SF 0.2
COMBO "CV14"  TYPE "Linear Add"
COMBO "CV14"  LOADCASE "CM"  SF 1
COMBO "CV14"  LOADCASE "CV"  SF 1
COMBO "CV14"  LOADCASE "SY"  SF 0.66
COMBO "CV14"  LOADCASE "SX"  SF -0.2
COMBO "CV15"  TYPE "Linear Add"
COMBO "CV15"  LOADCASE "CM"  SF 1
COMBO "CV15"  LOADCASE "CV"  SF 1
COMBO "CV15"  LOADCASE "SY"  SF -0.66
COMBO "CV15"  LOADCASE "SX"  SF 0.2
COMBO "CV16"  TYPE "Linear Add"
COMBO "CV16"  LOADCASE "CM"  SF 1
COMBO "CV16"  LOADCASE "CV"  SF 1
COMBO "CV16"  LOADCASE "SY"  SF -0.66
COMBO "CV16"  LOADCASE "SX"  SF -0.2
COMBO "CV17"  TYPE "Linear Add"
COMBO "CV17"  LOADCASE "CM"  SF 0.9
COMBO "CV17"  LOADCASE "SY"  SF 0.66
COMBO "CV17"  LOADCASE "SX"  SF 0.2
COMBO "CV18"  TYPE "Linear Add"
COMBO "CV18"  LOADCASE "CM"  SF 0.9
COMBO "CV18"  LOADCASE "SY"  SF 0.66
COMBO "CV18"  LOADCASE "SX"  SF -0.2
COMBO "CV19"  TYPE "Linear Add"
COMBO "CV19"  LOADCASE "CM"  SF 0.9
COMBO "CV19"  LOADCASE "SY"  SF -0.66
COMBO "CV19"  LOADCASE "SX"  SF 0.2
COMBO "CV20"  TYPE "Linear Add"
COMBO "CV20"  LOADCASE "CM"  SF 0.9
COMBO "CV20"  LOADCASE "SY"  SF -0.66
COMBO "CV20"  LOADCASE "SX"  SF -0.2
COMBO "CV21"  TYPE "Linear Add"
COMBO "CV21"  LOADCASE "CM"  SF 1.2
```

```
COMBO "CV21"  LOADCASE "CV"  SF 1.6
COMBO "CV22"  TYPE "Linear Add"
COMBO "CV22"  LOADCASE "CM"  SF 1
COMBO "CV22"  LOADCASE "CV"  SF 1
COMBO "CC1"  TYPE "Linear Add"
COMBO "CC1"  LOADCASE "CM"  SF 1.4
COMBO "CC2"  TYPE "Linear Add"
COMBO "CC2"  LOADCASE "CM"  SF 1
COMBO "CC2"  LOADCASE "CV"  SF 1
COMBO "CC2"  LOADCASE "CG"  SF 0.5
COMBO "CC3"  TYPE "Linear Add"
COMBO "CC3"  LOADCASE "CM"  SF 1
COMBO "CC3"  LOADCASE "CV"  SF 1
COMBO "CC3"  LOADCASE "CW"  SF 0.5
COMBO "CC4"  TYPE "Linear Add"
COMBO "CC4"  LOADCASE "CM"  SF 1
COMBO "CC4"  LOADCASE "CV"  SF 1
COMBO "CC4"  LOADCASE "CG"  SF 0.5
COMBO "CC4"  LOADCASE "CW"  SF 0.5
COMBO "CC5"  TYPE "Linear Add"
COMBO "CC5"  LOADCASE "CM"  SF 1
COMBO "CC5"  LOADCASE "CV"  SF 1
COMBO "CC5"  LOADCASE "SX"  SF 0.99
COMBO "CC5"  LOADCASE "SY"  SF 0.3
COMBO "CC6"  TYPE "Linear Add"
COMBO "CC6"  LOADCASE "CM"  SF 1
COMBO "CC6"  LOADCASE "CV"  SF 1
COMBO "CC6"  LOADCASE "SX"  SF 0.99
COMBO "CC6"  LOADCASE "SY"  SF -0.3
COMBO "CC7"  TYPE "Linear Add"
COMBO "CC7"  LOADCASE "CM"  SF 1
COMBO "CC7"  LOADCASE "CV"  SF 1
COMBO "CC7"  LOADCASE "SX"  SF -0.99
COMBO "CC7"  LOADCASE "SY"  SF 0.3
COMBO "CC8"  TYPE "Linear Add"
COMBO "CC8"  LOADCASE "CM"  SF 1
COMBO "CC8"  LOADCASE "CV"  SF 1
COMBO "CC8"  LOADCASE "SX"  SF -0.99
COMBO "CC8"  LOADCASE "SY"  SF -0.3
COMBO "CC9"  TYPE "Linear Add"
COMBO "CC9"  LOADCASE "CM"  SF 0.9
COMBO "CC9"  LOADCASE "SX"  SF 0.99
COMBO "CC9"  LOADCASE "SY"  SF 0.3
COMBO "CC10"  TYPE "Linear Add"
COMBO "CC10"  LOADCASE "CM"  SF 0.9
COMBO "CC10"  LOADCASE "SX"  SF 0.99
COMBO "CC10"  LOADCASE "SY"  SF -0.3
COMBO "CC11"  TYPE "Linear Add"
COMBO "CC11"  LOADCASE "CM"  SF 0.9
COMBO "CC11"  LOADCASE "SX"  SF -0.99
COMBO "CC11"  LOADCASE "SY"  SF 0.3
COMBO "CC12"  TYPE "Linear Add"
COMBO "CC12"  LOADCASE "CM"  SF 0.9
COMBO "CC12"  LOADCASE "SX"  SF -0.99
COMBO "CC12"  LOADCASE "SY"  SF -0.3
COMBO "CC13"  TYPE "Linear Add"
COMBO "CC13"  LOADCASE "CM"  SF 1
COMBO "CC13"  LOADCASE "CV"  SF 1
COMBO "CC13"  LOADCASE "SY"  SF 0.99
COMBO "CC13"  LOADCASE "SX"  SF 0.3
COMBO "CC14"  TYPE "Linear Add"
COMBO "CC14"  LOADCASE "CM"  SF 1
COMBO "CC14"  LOADCASE "CV"  SF 1
COMBO "CC14"  LOADCASE "SY"  SF 0.99
COMBO "CC14"  LOADCASE "SX"  SF -0.3
COMBO "CC15"  TYPE "Linear Add"
COMBO "CC15"  LOADCASE "CM"  SF 1
COMBO "CC15"  LOADCASE "CV"  SF 1
COMBO "CC15"  LOADCASE "SY"  SF -0.99
COMBO "CC15"  LOADCASE "SX"  SF 0.3
COMBO "CC16"  TYPE "Linear Add"
COMBO "CC16"  LOADCASE "CM"  SF 1
COMBO "CC16"  LOADCASE "CV"  SF 1
COMBO "CC16"  LOADCASE "SY"  SF -0.99
COMBO "CC16"  LOADCASE "SX"  SF -0.3
COMBO "CC17"  TYPE "Linear Add"
COMBO "CC17"  LOADCASE "CM"  SF 0.9
COMBO "CC17"  LOADCASE "SY"  SF 0.99
COMBO "CC17"  LOADCASE "SX"  SF 0.3
COMBO "CC18"  TYPE "Linear Add"
COMBO "CC18"  LOADCASE "CM"  SF 0.9
COMBO "CC18"  LOADCASE "SY"  SF 0.99
COMBO "CC18"  LOADCASE "SX"  SF -0.3
COMBO "CC19"  TYPE "Linear Add"
COMBO "CC19"  LOADCASE "CM"  SF 0.9
COMBO "CC19"  LOADCASE "SY"  SF -0.99
COMBO "CC19"  LOADCASE "SX"  SF 0.3
COMBO "CC20"  TYPE "Linear Add"
```

```
  COMBO "CC20"  LOADCASE "CM"  SF 0.9
  COMBO "CC20"  LOADCASE "SY"  SF -0.99
  COMBO "CC20"  LOADCASE "SX"  SF -0.3
  COMBO "CC21"  TYPE "Linear Add"
  COMBO "CC21"  LOADCASE "CM"  SF 1.2
  COMBO "CC21"  LOADCASE "CV"  SF 1.6
  COMBO "CC22"  TYPE "Linear Add"
  COMBO "CC22"  LOADCASE "CM"  SF 1
  COMBO "CC22"  LOADCASE "CV"  SF 1
  COMBO "1.40CM"  TYPE "Linear Add"
  COMBO "1.40CM"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "1.40CM"  LOADCASE "CM"  SF 1.4
  COMBO "1.0CM+1.0CV+0.50CG"  TYPE "Linear Add"
  COMBO "1.0CM+1.0CV+0.50CG"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "1.0CM+1.0CV+0.50CG"  LOADCASE "CM"  SF 1
  COMBO "1.0CM+1.0CV+0.50CG"  LOADCASE "CV"  SF 1
  COMBO "1.0CM+1.0CV+0.50CG"  LOADCASE "CM"  SF 0.5
  COMBO "1.0CM+1.0CV+0.50CW"  TYPE "Linear Add"
  COMBO "1.0CM+1.0CV+0.50CW"  DESIGN "Steel"  COMBOTYPE "Strength"
  COMBO "1.0CM+1.0CV+0.50CW"  LOADCASE "CM"  SF 1
  COMBO "1.0CM+1.0CV+0.50CW"  LOADCASE "CV"  SF 1
  COMBO "1.0CM+1.0CV+0.50CW"  LOADCASE "CW"  SF 0.5
  COMBO "1.0CM"  TYPE "Linear Add"
  COMBO "1.0CM"  DESIGN "Steel"  COMBOTYPE "Deflection"
  COMBO "1.0CM"  LOADCASE "CM"  SF 1
  COMBO "1.0CV"  TYPE "Linear Add"
  COMBO "1.0CV"  DESIGN "Steel"  COMBOTYPE "Deflection"
  COMBO "1.0CV"  LOADCASE "CV"  SF 1

$ STEEL DESIGN PREFERENCES
  STEELPREFERENCE  CODE "AISC 360-16"  THDESIGN "EVERYSTEP-ALL"  FRAMETYPE "OMF"
  STEELPREFERENCE  SDC "D"  IMPORTANCEFACTOR 1 SYSTEMRHO 1 SYSTEMSDS 0.5
  STEELPREFERENCE  SYSTEMR 8 OMEGA0 3 SYSTEMCD 5.5
  STEELPREFERENCE  PROVISION "LRFD"  ANALYSISMETHOD "DIRECT ANALYSIS"  SECONDORDERMETHOD "GENERAL 2ND ORDER"  STIFFNESSREDUCTIONMETHOD
"TAU-B FIXED"  AANOTIONALTOLATERALCOMBOS "NO"  BETA 1.3 BETAOMEGA 1.6
  STEELPREFERENCE  PHIBAISC05 0.9 PHICAISC05 0.9 PHITYAISC05 0.9 PHITFAISC05 0.75
  STEELPREFERENCE  PHIVAISC05 0.9 PHIVROLLEDIAISC05 1 PHITORSIONAISC05 0.9
  STEELPREFERENCE  IGNORESEISMICCODE "NO"  IGNORESPECIALSEISMICLOAD "NO"  ISDOUBLERPLATEPLUGWELDED "YES"
  STEELPREFERENCE  HSSWELDINGTYPE "ERW"  REDUCEHSSTHICKNESS "NO"
  STEELPREFERENCE  CONSIDERDEFLECTION "YES"
  STEELPREFERENCE  DLDEFLECTIONLIMIT 120 SLDEFLECTIONLIMIT 120 LLDEFLECTIONLIMIT 360 TLDEFLECTIONLIMIT 240 TLMCDEFLECTIONLIMIT 240
  STEELPREFERENCE  PATTERNLLF 0.75 MAXITERATION 1 SRLIMIT 0.95

$ STEEL DESIGN OVERWRITES
  STEELDATA  "B74"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03625  SLDEFLECTIONLIMITABS 0.03625
  STEELDATA  "B74"  "CUB-1"  LLDEFLECTIONLIMITABS 0.012083333  TLDEFLECTIONLIMITABS 0.018125  TLMCDEFLECTIONLIMITABS 0.018125
  STEELDATA  "B75"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03625  SLDEFLECTIONLIMITABS 0.03625
  STEELDATA  "B75"  "CUB-1"  LLDEFLECTIONLIMITABS 0.012083333  TLDEFLECTIONLIMITABS 0.018125  TLMCDEFLECTIONLIMITABS 0.018125
  STEELDATA  "B76"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03625  SLDEFLECTIONLIMITABS 0.03625
  STEELDATA  "B76"  "CUB-1"  LLDEFLECTIONLIMITABS 0.012083333  TLDEFLECTIONLIMITABS 0.018125  TLMCDEFLECTIONLIMITABS 0.018125
  STEELDATA  "B162"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03625  SLDEFLECTIONLIMITABS 0.03625
  STEELDATA  "B162"  "CUB-1"  LLDEFLECTIONLIMITABS 0.012083333  TLDEFLECTIONLIMITABS 0.018125  TLMCDEFLECTIONLIMITABS 0.018125
  STEELDATA  "B163"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03625  SLDEFLECTIONLIMITABS 0.03625
  STEELDATA  "B163"  "CUB-1"  LLDEFLECTIONLIMITABS 0.012083333  TLDEFLECTIONLIMITABS 0.018125  TLMCDEFLECTIONLIMITABS 0.018125
  STEELDATA  "B164"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03625  SLDEFLECTIONLIMITABS 0.03625
  STEELDATA  "B164"  "CUB-1"  LLDEFLECTIONLIMITABS 0.012083333  TLDEFLECTIONLIMITABS 0.018125  TLMCDEFLECTIONLIMITABS 0.018125
  STEELDATA  "B255"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B255"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B256"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B256"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B257"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B257"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B344"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B344"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B345"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B345"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B346"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B346"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B383"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033333335  SLDEFLECTIONLIMITABS 0.033333335
  STEELDATA  "B383"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011111111  TLDEFLECTIONLIMITABS 0.016666668  TLMCDEFLECTIONLIMITABS 0.016666668
  STEELDATA  "B384"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033333335  SLDEFLECTIONLIMITABS 0.033333335
  STEELDATA  "B384"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011111111  TLDEFLECTIONLIMITABS 0.016666668  TLMCDEFLECTIONLIMITABS 0.016666668
  STEELDATA  "B385"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033333335  SLDEFLECTIONLIMITABS 0.033333335
  STEELDATA  "B385"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011111111  TLDEFLECTIONLIMITABS 0.016666668  TLMCDEFLECTIONLIMITABS 0.016666668
  STEELDATA  "B413"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033333335  SLDEFLECTIONLIMITABS 0.033333335
  STEELDATA  "B413"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011111111  TLDEFLECTIONLIMITABS 0.016666668  TLMCDEFLECTIONLIMITABS 0.016666668
  STEELDATA  "B414"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033333335  SLDEFLECTIONLIMITABS 0.033333335
  STEELDATA  "B414"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011111111  TLDEFLECTIONLIMITABS 0.016666668  TLMCDEFLECTIONLIMITABS 0.016666668
  STEELDATA  "B415"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033333335  SLDEFLECTIONLIMITABS 0.033333335
  STEELDATA  "B415"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011111111  TLDEFLECTIONLIMITABS 0.016666668  TLMCDEFLECTIONLIMITABS 0.016666668
  STEELDATA  "B259"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B259"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B260"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B260"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B348"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B348"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
  STEELDATA  "B349"  "CUB-1"  DLDEFLECTIONLIMITABS 0.035416666  SLDEFLECTIONLIMITABS 0.035416666
  STEELDATA  "B349"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011805556  TLDEFLECTIONLIMITABS 0.017708333  TLMCDEFLECTIONLIMITABS 0.017708333
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STEELDATA "B387" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B387" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B388" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B388" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B417" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B417" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B418" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B418" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B166" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B166" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B167" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B167" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B78" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B78" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B79" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B79" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B69" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B69" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B70" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B70" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B71" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B71" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B72" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B72" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B157" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B157" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B158" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B158" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B159" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B159" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B160" "CUB-1" DLDEFLECTIONLIMITABS 0.03625 SLDEFLECTIONLIMITABS 0.03625
STEELDATA "B160" "CUB-1" LLDEFLECTIONLIMITABS 0.012083333 TLDEFLECTIONLIMITABS 0.018125 TLMCDEFLECTIONLIMITABS 0.018125
STEELDATA "B250" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B250" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B251" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B251" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B252" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B252" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B253" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B253" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B339" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B339" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B340" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B340" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B341" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B341" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B342" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B342" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B378" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B378" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B379" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B379" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B380" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B380" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B381" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B381" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B408" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B408" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B409" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B409" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B410" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B410" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B411" "CUB-1" DLDEFLECTIONLIMITABS 0.033333335 SLDEFLECTIONLIMITABS 0.033333335
STEELDATA "B411" "CUB-1" LLDEFLECTIONLIMITABS 0.011111111 TLDEFLECTIONLIMITABS 0.016666668 TLMCDEFLECTIONLIMITABS 0.016666668
STEELDATA "B18" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B18" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B19" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B19" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B20" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B20" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B21" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B21" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B108" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B108" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B109" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B109" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B110" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B110" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B111" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B111" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B191" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B191" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B192" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B192" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B193" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B193" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B194" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B194" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
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STEELDATA "B276" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B276" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B277" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B277" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B278" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B278" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B279" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B279" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B352" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B352" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B353" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B353" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B354" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B354" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B355" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B355" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B391" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B391" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B392" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B392" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B393" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B393" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B394" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B394" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B421" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B421" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B422" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B422" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B423" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B423" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B424" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B424" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B439" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B439" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B440" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B440" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B441" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B441" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B442" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B442" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B23" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B23" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B24" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B24" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B25" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B25" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B113" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B113" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B114" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B114" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B115" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B115" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B196" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B196" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B197" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B197" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B198" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B198" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B281" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B281" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B282" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B282" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B283" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B283" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B357" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B357" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B358" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B358" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B359" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B359" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B396" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B396" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B397" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B397" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B398" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B398" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B426" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B426" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B427" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B427" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B428" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B428" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B444" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B444" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B445" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B445" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B446" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B446" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
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STEELDATA "B27" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B27" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B28" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B28" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B117" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B117" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B118" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B118" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B200" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B200" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B201" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B201" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B285" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B285" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B286" "CUB-1" DLDEFLECTIONLIMITABS 0.027916666 SLDEFLECTIONLIMITABS 0.027916666
STEELDATA "B286" "CUB-1" LLDEFLECTIONLIMITABS 0.009305555 TLDEFLECTIONLIMITABS 0.013958333 TLMCDEFLECTIONLIMITABS 0.013958333
STEELDATA "B361" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B361" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B362" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B362" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B400" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B400" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B401" "CUB-1" DLDEFLECTIONLIMITABS 0.035416666 SLDEFLECTIONLIMITABS 0.035416666
STEELDATA "B401" "CUB-1" LLDEFLECTIONLIMITABS 0.011805556 TLDEFLECTIONLIMITABS 0.017708333 TLMCDEFLECTIONLIMITABS 0.017708333
STEELDATA "B430" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B430" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B431" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B431" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B448" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B448" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B449" "CUB-1" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B449" "CUB-1" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B52" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B52" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B53" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B53" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B141" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B141" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B142" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B142" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B241" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B241" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B242" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B242" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B322" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B322" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B323" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B323" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B272" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B272" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B273" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B273" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B335" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B335" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B336" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B336" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B91" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B91" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B92" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B92" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B183" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B183" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B184" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B184" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B66" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B66" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B65" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B65" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B154" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B154" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B153" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B153" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B228" "CUB-1" DLDEFLECTIONLIMITABS 0.033791665 SLDEFLECTIONLIMITABS 0.033791665
STEELDATA "B228" "CUB-1" LLDEFLECTIONLIMITABS 0.011263889 TLDEFLECTIONLIMITABS 0.016895832 TLMCDEFLECTIONLIMITABS 0.016895832
STEELDATA "B227" "CUB-1" DLDEFLECTIONLIMITABS 0.033791665 SLDEFLECTIONLIMITABS 0.033791665
STEELDATA "B227" "CUB-1" LLDEFLECTIONLIMITABS 0.011263889 TLDEFLECTIONLIMITABS 0.016895832 TLMCDEFLECTIONLIMITABS 0.016895832
STEELDATA "B310" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B310" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B309" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B309" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B39" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B39" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B40" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B40" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B129" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B129" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B130" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B130" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
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STEELDATA "B212" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B212" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B213" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B213" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B31" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B31" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B32" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B32" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B33" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B33" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B121" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B121" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B122" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B122" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B123" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B123" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B204" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B204" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B205" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B205" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B206" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B206" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B34" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B34" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B35" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B35" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B36" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B36" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B37" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B37" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B124" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B124" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B125" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B125" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B126" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B126" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B127" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B127" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B207" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B207" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B208" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B208" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B209" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B209" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B210" "CUB-2" DLDEFLECTIONLIMITABS 0.028333334 SLDEFLECTIONLIMITABS 0.028333334
STEELDATA "B210" "CUB-2" LLDEFLECTIONLIMITABS 0.009444444 TLDEFLECTIONLIMITABS 0.014166667 TLMCDEFLECTIONLIMITABS 0.014166667
STEELDATA "B43" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B43" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B44" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B44" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B45" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B45" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B46" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B46" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B133" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B133" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B134" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B134" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B135" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B135" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B136" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B136" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B233" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B233" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B234" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B234" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B235" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B235" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B236" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B236" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B313" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B313" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B314" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B314" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B315" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B315" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B316" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B316" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B48" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B48" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B49" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B49" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B50" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B50" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B137" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B137" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B138" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B138" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
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STEELDATA "B139" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B139" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B237" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B237" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B238" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B238" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B239" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B239" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B318" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B318" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B319" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B319" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B320" "CUB-1" DLDEFLECTIONLIMITABS 0.034166668 SLDEFLECTIONLIMITABS 0.034166668
STEELDATA "B320" "CUB-1" LLDEFLECTIONLIMITABS 0.011388889 TLDEFLECTIONLIMITABS 0.017083334 TLMCDEFLECTIONLIMITABS 0.017083334
STEELDATA "B263" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B263" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B264" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B264" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B265" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B265" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B326" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B326" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B327" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B327" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B328" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B328" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B267" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B267" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B268" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B268" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B269" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B269" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B270" "CUB-1" DLDEFLECTIONLIMITABS 0.026666667 SLDEFLECTIONLIMITABS 0.026666667
STEELDATA "B270" "CUB-1" LLDEFLECTIONLIMITABS 0.008888889 TLDEFLECTIONLIMITABS 0.013333334 TLMCDEFLECTIONLIMITABS 0.013333334
STEELDATA "B330" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B330" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B331" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B331" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B332" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B332" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B333" "CUB-1" DLDEFLECTIONLIMITABS 0.025416667 SLDEFLECTIONLIMITABS 0.025416667
STEELDATA "B333" "CUB-1" LLDEFLECTIONLIMITABS 0.008472222 TLDEFLECTIONLIMITABS 0.012708333 TLMCDEFLECTIONLIMITABS 0.012708333
STEELDATA "B82" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B82" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B83" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B83" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B84" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B84" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B85" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B85" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B174" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B174" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B175" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B175" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B176" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B176" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B177" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B177" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B87" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B87" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B88" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B88" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B89" "CUB-1" DLDEFLECTIONLIMITABS 0.04208333 SLDEFLECTIONLIMITABS 0.04208333
STEELDATA "B89" "CUB-1" LLDEFLECTIONLIMITABS 0.014027777 TLDEFLECTIONLIMITABS 0.021041665 TLMCDEFLECTIONLIMITABS 0.021041665
STEELDATA "B179" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B179" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B180" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B180" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B181" "CUB-1" DLDEFLECTIONLIMITABS 0.04458333 SLDEFLECTIONLIMITABS 0.04458333
STEELDATA "B181" "CUB-1" LLDEFLECTIONLIMITABS 0.0148611115 TLDEFLECTIONLIMITABS 0.022291666 TLMCDEFLECTIONLIMITABS 0.022291666
STEELDATA "B56" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B56" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B57" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B57" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B58" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B58" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B145" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B145" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B146" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B146" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B147" "CUB-1" DLDEFLECTIONLIMITABS 0.03375 SLDEFLECTIONLIMITABS 0.03375
STEELDATA "B147" "CUB-1" LLDEFLECTIONLIMITABS 0.01125 TLDEFLECTIONLIMITABS 0.016875 TLMCDEFLECTIONLIMITABS 0.016875
STEELDATA "B219" "CUB-1" DLDEFLECTIONLIMITABS 0.033791665 SLDEFLECTIONLIMITABS 0.033791665
STEELDATA "B219" "CUB-1" LLDEFLECTIONLIMITABS 0.011263889 TLDEFLECTIONLIMITABS 0.016895832 TLMCDEFLECTIONLIMITABS 0.016895832
STEELDATA "B220" "CUB-1" DLDEFLECTIONLIMITABS 0.033791665 SLDEFLECTIONLIMITABS 0.033791665
STEELDATA "B220" "CUB-1" LLDEFLECTIONLIMITABS 0.011263889 TLDEFLECTIONLIMITABS 0.016895832 TLMCDEFLECTIONLIMITABS 0.016895832
STEELDATA "B221" "CUB-1" DLDEFLECTIONLIMITABS 0.033791665 SLDEFLECTIONLIMITABS 0.033791665
STEELDATA "B221" "CUB-1" LLDEFLECTIONLIMITABS 0.011263889 TLDEFLECTIONLIMITABS 0.016895832 TLMCDEFLECTIONLIMITABS 0.016895832
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  STEELDATA  "B300"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B301"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B301"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B302"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B302"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B60"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B60"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B61"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B61"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B62"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B62"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B63"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B63"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B148"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B148"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B149"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B149"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B150"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B150"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B151"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B151"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B222"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033791665  SLDEFLECTIONLIMITABS 0.033791665
  STEELDATA  "B222"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011263889  TLDEFLECTIONLIMITABS 0.016895832  TLMCDEFLECTIONLIMITABS 0.016895832
  STEELDATA  "B223"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033791665  SLDEFLECTIONLIMITABS 0.033791665
  STEELDATA  "B223"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011263889  TLDEFLECTIONLIMITABS 0.016895832  TLMCDEFLECTIONLIMITABS 0.016895832
  STEELDATA  "B224"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033791665  SLDEFLECTIONLIMITABS 0.033791665
  STEELDATA  "B224"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011263889  TLDEFLECTIONLIMITABS 0.016895832  TLMCDEFLECTIONLIMITABS 0.016895832
  STEELDATA  "B225"  "CUB-1"  DLDEFLECTIONLIMITABS 0.033791665  SLDEFLECTIONLIMITABS 0.033791665
  STEELDATA  "B225"  "CUB-1"  LLDEFLECTIONLIMITABS 0.011263889  TLDEFLECTIONLIMITABS 0.016895832  TLMCDEFLECTIONLIMITABS 0.016895832
  STEELDATA  "B304"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B304"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B305"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B305"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B306"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B306"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B307"  "CUB-1"  DLDEFLECTIONLIMITABS 0.03375  SLDEFLECTIONLIMITABS 0.03375
  STEELDATA  "B307"  "CUB-1"  LLDEFLECTIONLIMITABS 0.01125  TLDEFLECTIONLIMITABS 0.016875  TLMCDEFLECTIONLIMITABS 0.016875
  STEELDATA  "B329"  "CUB-1"  DLDEFLECTIONLIMITABS 0.025416667  SLDEFLECTIONLIMITABS 0.025416667
  STEELDATA  "B329"  "CUB-1"  LLDEFLECTIONLIMITABS 0.008472222  TLDEFLECTIONLIMITABS 0.012708333  TLMCDEFLECTIONLIMITABS 0.012708333
  STEELDATA  "B266"  "CUB-1"  DLDEFLECTIONLIMITABS 0.026666667  SLDEFLECTIONLIMITABS 0.026666667
  STEELDATA  "B266"  "CUB-1"  LLDEFLECTIONLIMITABS 0.008888889  TLDEFLECTIONLIMITABS 0.013333334  TLMCDEFLECTIONLIMITABS 0.013333334

$ CONCRETE DESIGN PREFERENCES
  CONCRETEPREFERENCE  CODE "ACI 318-19" THDESIGN "EVERYSTEP-ALL"    CONSIDERMINECCENTRICITY "YES"    DESIGNFORBCCR "YES"
  CONCRETEPREFERENCE  IGNOREBENEFICIALPUINBEAMDESIGN "YES"
  CONCRETEPREFERENCE  NUMINTERCURVES 24  NUMINTERPOINTS 11  PATTERNLLF 0.75  UFLIMIT 1
  CONCRETEPREFERENCE  SDC "D"    OMEGA0 2  RHO 1  SDS 0.5
  CONCRETEPREFERENCE  PHITENSIONCTRL 0.9  PHICOMPRESSIONCTRLTIED 0.65  PHICOMPRESSIONCTRLSPIRAL 0.75
  CONCRETEPREFERENCE  PHISHEARTORSION 0.75  PHISHEARSEISMIC 0.6  PHISHEARJOINT 0.85
  CONCRETEPREFERENCE  USERSTRESS "NO"  INITCONCRAT 0.8  LLFRACTION 0.5

$ CONCRETE DESIGN OVERWRITES
  CONCRETEDATA  "C1"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C36"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C56"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C76"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C98"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C106"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C113"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C5"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C24"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C43"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C60"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C83"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C102"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C109"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C117"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C6"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C44"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C84"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C103"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C110"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C7"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C25"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C45"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C61"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C85"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C104"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C111"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C118"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C8"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C26"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C46"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C62"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C86"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C105"  "CUB-1"  TYPE "INTERMEDIATE"
  CONCRETEDATA  "C112"  "CUB-1"  TYPE "INTERMEDIATE"
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CONCRETEDATA "C119" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C23" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C35" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C55" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C72" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C90" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C2" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C57" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C77" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C99" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C114" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C3" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C37" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C58" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C78" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C100" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C107" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C115" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C4" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C38" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C59" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C79" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C101" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C108" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C116" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C9" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C30" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C50" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C73" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C91" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C10" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C92" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C11" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C31" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C51" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C74" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C93" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C12" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C32" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C52" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C75" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C94" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C13" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C27" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C47" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C63" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C80" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C95" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C14" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C28" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C48" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C64" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C81" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C96" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C15" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C29" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C49" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C65" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "C97" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "C39" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C66" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "C40" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C67" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C18" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C41" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C68" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C19" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C42" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C69" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C20" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "C53" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "C87" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "C54" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "C89" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C120" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C121" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C122" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "C123" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B156" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B249" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B338" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B377" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B407" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B73" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B161" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B254" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B343" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B382" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B412" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B77" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B165" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B258" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B347" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B386" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B416" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B80" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B168" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B261" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B419" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B1" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B2" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B3" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B351" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B199" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B399" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B447" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B29" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B298" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B312" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B232" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B132" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B42" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B317" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B47" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B321" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B240" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B140" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B51" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B324" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B243" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B143" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B54" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B6" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B7" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B8" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B98" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B99" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B186" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B187" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B290" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B291" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B367" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B368" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B369" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B325" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B262" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B203" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B120" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B30" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B334" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B211" "CUB-1" TYPE "INTERMEDIATE"
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CONCRETEDATA "B112" "CUB-1" TYPE "INTERMEDIATE"
CONCRETEDATA "B195" "CUB-1" TYPE "INTERMEDIATE"
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  CONCRETEDATA "B10" "CUB-2" TYPE "INTERMEDIATE"
  CONCRETEDATA "B96" "CUB-2" TYPE "INTERMEDIATE"
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MODELOS I.E.D VALBUENA_RURAL\MODELOS  IED VALBUENA_RURAL.EDB at 24/11/2024 8:27:14 p. m.
  ENDCOMMENTS

  END
$ END OF MODEL FILE
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4. ANÁLISIS SÍSMICO

PREESCOLAR I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

Zona sísmica: **SUELO TIPO E**

Fa= 2.10

Fv= 3.20

Tc= 0.98

TL= 7.68

Aa= 0.15

Av= 0.20

Sa= 0.79

Tabla A.2.4-3
Valores del coeficiente F_a, para la zona de periodos cortos del espectro

Tipo de Perfil	Intensidad de los movimientos sísmicos				
	$A_a \le 0.1$	$A_a = 0.2$	$A_a = 0.3$	$A_a = 0.4$	$A_a \ge 0.5$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	véase nota	véase nota	Véase nota	véase nota	véase nota

Nota: Para el perfil tipo **F** debe realizarse una investigación geotécnica particular para el lugar específico y debe llevarse a cabo un análisis de amplificación de onda de acuerdo con A.2.10.

Tabla A.2.4-4
Valores del coeficiente F_v, para la zona de periodos intermedios del espectro

Tipo de Perfil	Intensidad de los movimientos sísmicos				
	$A_v \le 0.1$	$A_v = 0.2$	$A_v = 0.3$	$A_v = 0.4$	$A_v \ge 0.5$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.7	1.6	1.5	1.4	1.3
D	2.4	2.0	1.8	1.6	1.5
E	3.5	3.2	2.8	2.4	2.4
F	véase nota	véase nota	véase nota	Véase nota	véase nota

Nota: Para el perfil tipo **F** debe realizarse una investigación geotécnica particular para el lugar específico y debe llevarse a cabo un análisis de amplificación de onda de acuerdo con A.2.10.

COEFICIENTE DE IMPORTANCIA: I = 1.25

Grupo de Uso: **III**

Período Fundamental Aprox. (T)

Altura Edificio: 3.30

Ct= 0.047

α = 0.90

Ta=Cth^{α}= 0.138

T<0.50

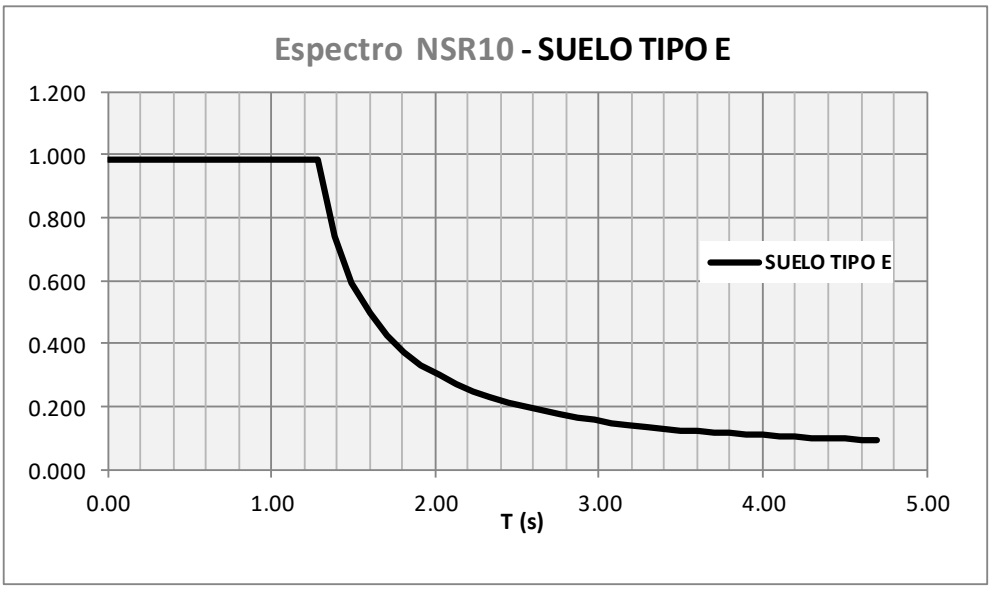
K=	1.00
T=Cthn$^{3/4}$ =	0.138

Espectro de Diseño

Cuando T<Tc
Sa=2.5*Aa*Fa*I

Cuando Tc<T<TL
Sa=1.2*Av*Fv*I/T

Cuando TL<T
Sa=1.2*Av*Fv*Tl*I/T2



Sa = 0.98

Cálculo K:		
	1. T<=0.5seg=	K=1
	2. 0.5<T<2.5seg=	K=0.75+0.5T
	3. T>2.5seg=	K=2

Cu = 0.98

Cu = 1.20 *Mínimo*

CuTa= 0.17

4.1. PERÍODO MODAL - PREESCOLAR

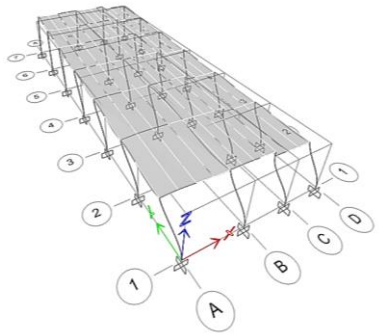
A.4.2.3 — El valor de **T** obtenido al utilizar las ecuaciones A.4.2-1, A.4.2-3 o A.4.2-5 es un estimativo inicial razonable del período estructural para predecir las fuerzas a aplicar sobre la estructura con el fin de dimensionar su sistema de resistencia sísmica. Sin embargo, una vez dimensionada la estructura, debe calcularse el valor ajustado de **T** mediante la aplicación de análisis modal o de la ecuación A.4.2-1 para compararlo con el estimado inicial; si el periodo de la estructura diseñada difiriera en más del 10% con el periodo estimado inicialmente, debe repetirse el proceso de análisis, utilizando el último periodo calculado como nuevo estimado, hasta que se converja en un resultado dentro de la tolerancia del 10% señalada.

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad²/sec²
Modal	1	0.12	7.148	44.9112	2017.0184
Modal	2	0.12	7.64	48.0015	2304.1432
Modal	3	0.11	8.545	53.6922	2882.8559

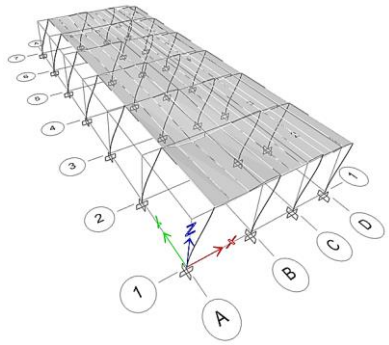
T_a = 0.138
T_m = 0.120

→ Período máx. permitido +10% = 0.151

$T_m < 1.10\ T_a$ Ok



MODO 1

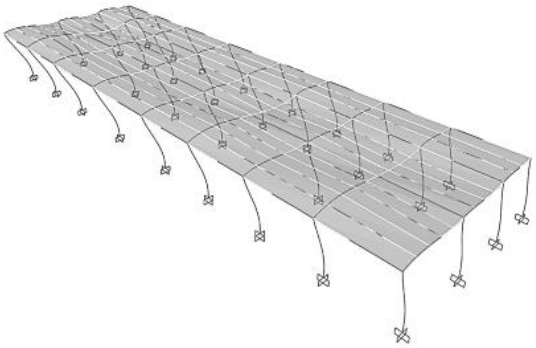


MODO 2

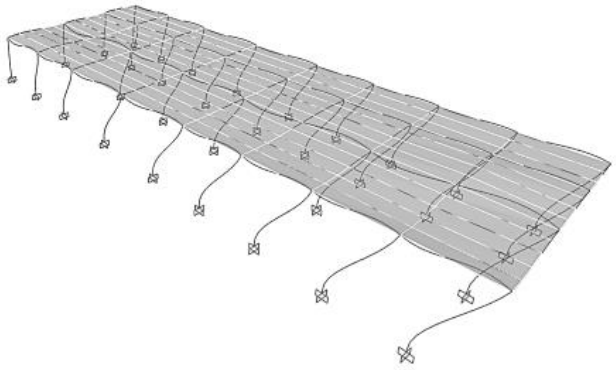
PERÍODO MODAL - SECUNDARIA

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad²/sec²
Modal	1	0.142	5.877	36.9268	1363.588
Modal	2	0.133	6.078	38.1906	1458.5239
Modal	3	0.127	6.384	40.1144	1609.1673

T_a = 0.138
T_m = 0.142 → Período máx. permitido +10% = 0.151 → $T_m < 1.10\ T_a$ Ok



MODO 1



MODO 2

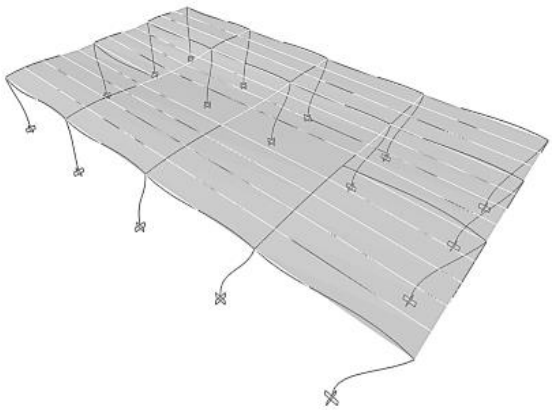
PERÍODO MODAL - MULTIPROPÓSITO

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad²/sec²
Modal	1	0.138	6.0	37.382	1397.403
Modal	2	0.134	6.1	38.269	1464.487
Modal	3	0.126	6.9	43.169	1863.530

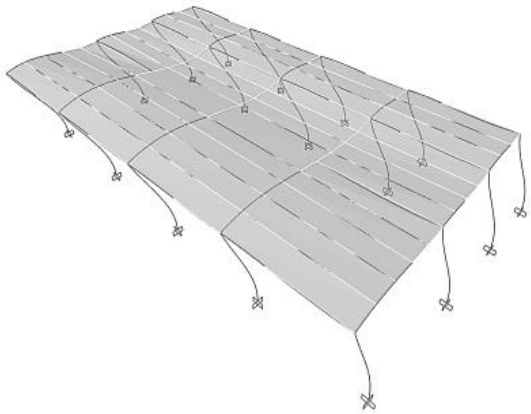
T_a = 0.138
T_m = 0.138

→ Período máx. permitido +10% = 0.151

$T_m < 1.10\ T_a$ Ok



MODO 1



MODO 2

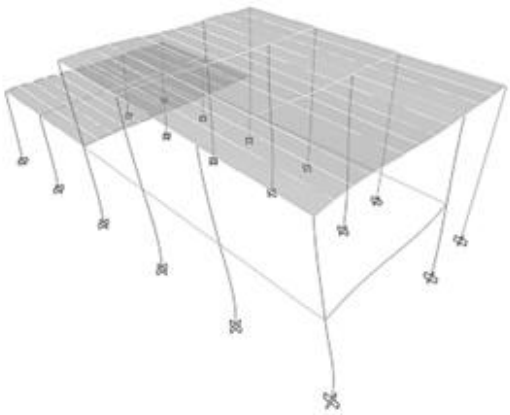
PERÍODO MODAL - RESTAURANTE

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad²/sec²
Modal	1	0.275	3.388	21.2899	453.259
Modal	2	0.238	4.037	25.3623	643.2474
Modal	3	0.187	5.35	33.616	1130.0368
Modal	4	0.098	10.204	64.1118	4110.3229
Modal	5	0.088	11.39	71.5651	5121.5634
Modal	6	0.074	13.578	85.3157	7278.7735

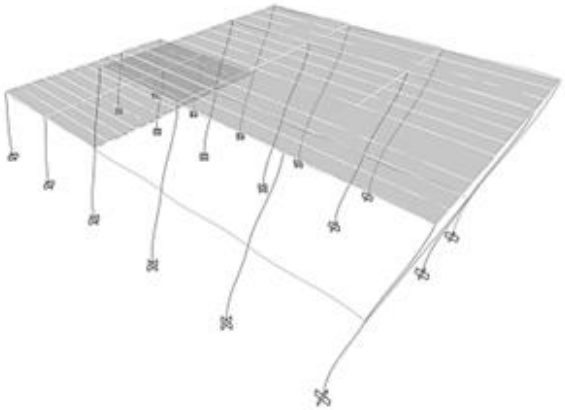
T_a = 0.257
T_m = 0.275

⟶ Período máx. permitido +10% = 0.283

$T_m < 1.10\ T_a$ Ok



MODO 1



MODO 2

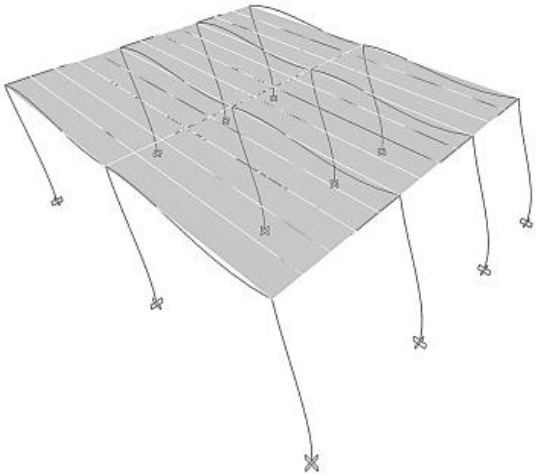
PERÍODO MODAL - ADMINISTRACIÓN

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad²/sec²
Modal	1	0.127	5.087	31.9633	1021.6507
Modal	2	0.117	5.641	35.441	1256.0661
Modal	3	0.103	6.118	38.4428	1477.8527

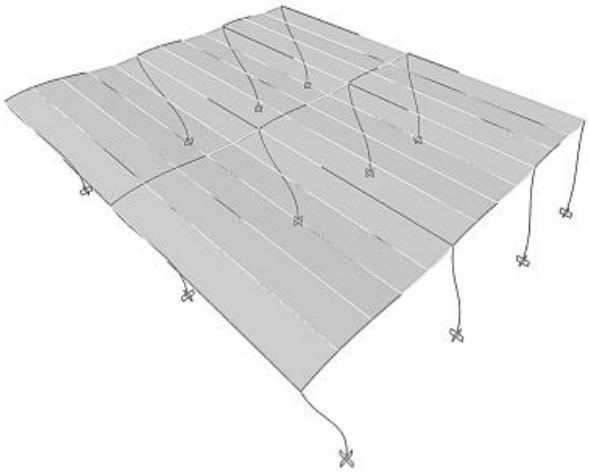
T_a = 0.138
T_m = 0.127

→ Período máx. permitido +10% = 0.151

$T_m < 1.10\ T_a$ Ok



MODO 1

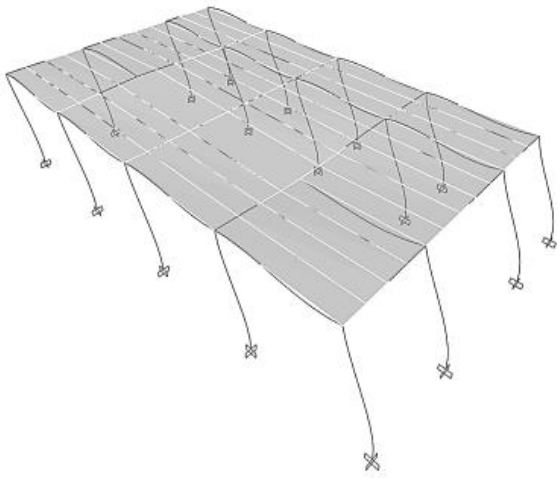


MODO 2

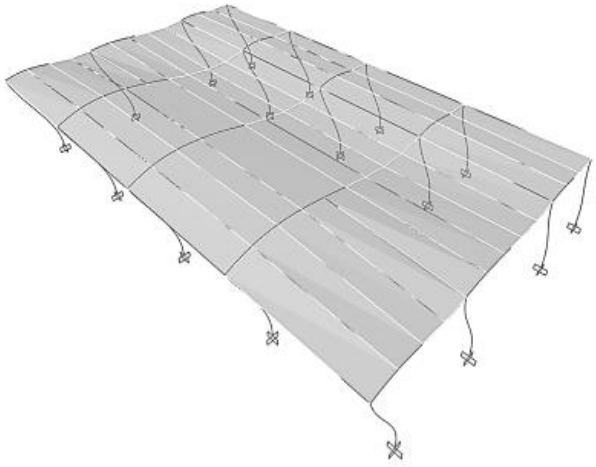
PERÍODO MODAL - BIBLIOTECA

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad²/sec²
Modal	1	0.146	5.42	34.0521	1159.5477
Modal	2	0.138	6.05	38.0116	1444.8788
Modal	3	0.124	6.476	40.6896	1655.6433

T_a = 0.138
T_m = 0.146 → Período máx. permitido +10% = 0.151 → $T_m < 1.10\ T_a$ Ok

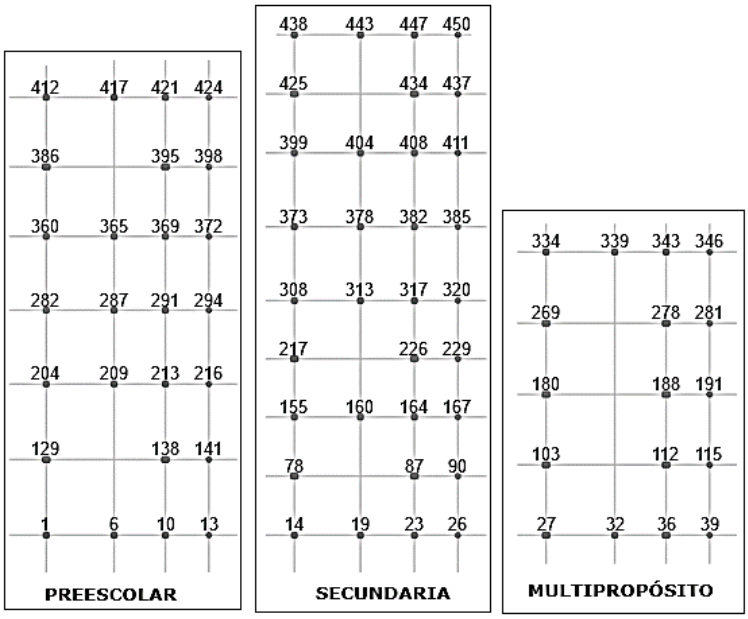


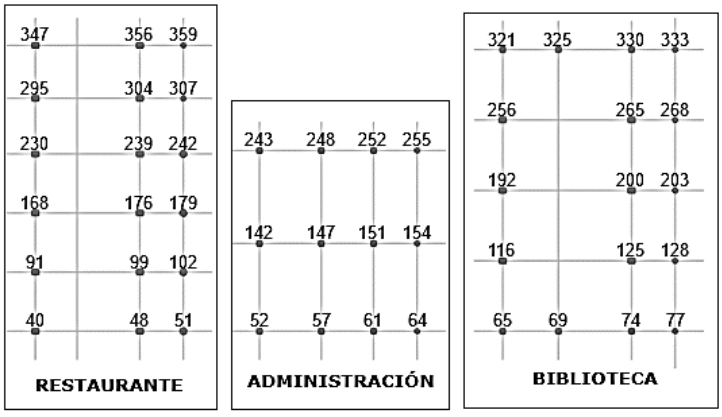
MODO 1



MODO 2

5. CHEQUEO DERIVAS





Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-1	1	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.219	0.064
CUB-1	1	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.213	0.063
CUB-1	1	DER -Y-	Combination	Max	0.003	0.007	0.001	0.002	0.076	0.212
CUB-1	1	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.070	0.211
CUB-1	6	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.219	0.064
CUB-1	6	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.213	0.063
CUB-1	6	DER -Y-	Combination	Max	0.003	0.007	0.001	0.002	0.076	0.210
CUB-1	6	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.070	0.209
CUB-1	10	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.219	0.062
CUB-1	10	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.213	0.061
CUB-1	10	DER -Y-	Combination	Max	0.003	0.007	0.001	0.002	0.076	0.204
CUB-1	10	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.070	0.203
CUB-1	13	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.219	0.062
CUB-1	13	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.213	0.061
CUB-1	13	DER -Y-	Combination	Max	0.003	0.007	0.001	0.002	0.076	0.203
CUB-1	13	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.070	0.202
CUB-1	14	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.192	0.060
CUB-1	14	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.186	0.060
CUB-1	14	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.189
CUB-1	14	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.188
CUB-1	19	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.191	0.057
CUB-1	19	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.186	0.056
CUB-1	19	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.186
CUB-1	19	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.186
CUB-1	23	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.191	0.056
CUB-1	23	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.186	0.056
CUB-1	23	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.182
CUB-1	23	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.061	0.181
CUB-1	26	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.191	0.058
CUB-1	26	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.186	0.058
CUB-1	26	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.181
CUB-1	26	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.061	0.181
CUB-1	27	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.170	0.070
CUB-1	27	DER -X-	Combination	Min	-0.005	-0.002	0.002	0.001	0.162	0.069
CUB-1	27	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.062	0.202
CUB-1	27	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.054	0.201
CUB-1	32	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.170	0.061
CUB-1	32	DER -X-	Combination	Min	-0.005	-0.002	0.002	0.001	0.163	0.060
CUB-1	32	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.062	0.196
CUB-1	32	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.055	0.195
CUB-1	36	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.170	0.060
CUB-1	36	DER -X-	Combination	Min	-0.005	-0.002	0.002	0.001	0.162	0.059
CUB-1	36	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.062	0.188
CUB-1	36	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.055	0.188
CUB-1	39	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.170	0.064
CUB-1	39	DER -X-	Combination	Min	-0.005	-0.002	0.002	0.001	0.162	0.064
CUB-1	39	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.062	0.188
CUB-1	39	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.055	0.187
CUB-2	40	DER -X-	Combination	Min	-0.057	-0.018	0.009	0.003	0.929	0.265
CUB-2	40	DER -X-	Combination	Max	0.058	0.018	0.009	0.003	0.925	0.267
CUB-2	40	DER -Y-	Combination	Max	0.018	0.039	0.003	0.006	0.294	0.617
CUB-2	40	DER -Y-	Combination	Min	-0.017	-0.039	0.003	0.006	0.279	0.615
CUB-1	40	DER -X-	Combination	Max	0.026	0.010	0.008	0.003	0.800	0.288
CUB-1	40	DER -X-	Combination	Min	-0.026	-0.009	0.008	0.003	0.797	0.288
CUB-1	40	DER -Y-	Combination	Max	0.008	0.019	0.002	0.006	0.244	0.561
CUB-1	40	DER -Y-	Combination	Min	-0.008	-0.018	0.002	0.006	0.241	0.560
CUB-2	48	DER -X-	Combination	Max	0.058	0.014	0.009	0.002	0.929	0.223
CUB-2	48	DER -X-	Combination	Min	-0.057	-0.014	0.009	0.002	0.925	0.221
CUB-2	48	DER -Y-	Combination	Max	0.018	0.038	0.003	0.007	0.292	0.655
CUB-2	48	DER -Y-	Combination	Min	-0.017	-0.038	0.003	0.007	0.279	0.653
CUB-1	48	DER -X-	Combination	Max	0.027	0.006	0.008	0.002	0.803	0.191
CUB-1	48	DER -X-	Combination	Min	-0.026	-0.006	0.008	0.002	0.800	0.190
CUB-1	48	DER -Y-	Combination	Max	0.008	0.016	0.002	0.005	0.245	0.491
CUB-1	48	DER -Y-	Combination	Min	-0.008	-0.016	0.002	0.005	0.242	0.491

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-2	51	DER -X-	Combination	Min	-0.057	-0.018	0.009	0.003	0.928	0.295
CUB-2	51	DER -X-	Combination	Max	0.058	0.018	0.009	0.003	0.923	0.301
CUB-2	51	DER -Y-	Combination	Max	0.018	0.039	0.003	0.007	0.284	0.657
CUB-1	51	DER -X-	Combination	Max	0.027	0.008	0.008	0.002	0.819	0.237
CUB-1	51	DER -X-	Combination	Min	-0.027	-0.008	0.008	0.002	0.806	0.241
CUB-2	51	DER -Y-	Combination	Min	-0.017	-0.039	0.003	0.007	0.279	0.651
CUB-1	51	DER -Y-	Combination	Max	0.008	0.018	0.003	0.005	0.253	0.530
CUB-1	51	DER -Y-	Combination	Min	-0.008	-0.018	0.002	0.005	0.241	0.535
CUB-1	52	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.216	0.079
CUB-1	52	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.212	0.079
CUB-1	52	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.072	0.258
CUB-1	52	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.068	0.259
CUB-1	57	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.216	0.079
CUB-1	57	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.213	0.080
CUB-1	57	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.072	0.263
CUB-1	57	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.068	0.264
CUB-1	61	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.216	0.080
CUB-1	61	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.212	0.081
CUB-1	61	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.071	0.266
CUB-1	61	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.068	0.267
CUB-1	64	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.216	0.082
CUB-1	64	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.212	0.083
CUB-1	64	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.071	0.269
CUB-1	64	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.067	0.270
CUB-1	65	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.074
CUB-1	65	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.197	0.074
CUB-1	65	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.072	0.245
CUB-1	65	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.060	0.244
CUB-1	69	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.075
CUB-1	69	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.197	0.075
CUB-1	69	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.072	0.250
CUB-1	69	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.060	0.249
CUB-1	74	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.075
CUB-1	74	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.197	0.075
CUB-1	74	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.071	0.250
CUB-1	74	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.059	0.250
CUB-1	77	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.076
CUB-1	77	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.197	0.076
CUB-1	77	DER -Y-	Combination	Max	0.002	0.008	0.001	0.003	0.071	0.250
CUB-1	77	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.003	0.059	0.250
CUB-1	78	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.197	0.060
CUB-1	78	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.190	0.060
CUB-1	78	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.189
CUB-1	78	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.188
CUB-1	87	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.196	0.056
CUB-1	87	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.190	0.056
CUB-1	87	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	87	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.182
CUB-1	90	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.196	0.058
CUB-1	90	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.190	0.058
CUB-1	90	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	90	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.181
CUB-2	91	DER -X-	Combination	Max	0.053	0.018	0.009	0.003	0.917	0.267
CUB-2	91	DER -X-	Combination	Min	-0.052	-0.018	0.009	0.003	0.865	0.265
CUB-2	91	DER -Y-	Combination	Max	0.016	0.039	0.003	0.006	0.303	0.618
CUB-2	91	DER -Y-	Combination	Min	-0.016	-0.039	0.003	0.006	0.252	0.616
CUB-1	91	DER -X-	Combination	Min	-0.024	-0.010	0.007	0.003	0.719	0.288
CUB-1	91	DER -X-	Combination	Max	0.023	0.010	0.007	0.003	0.686	0.289
CUB-1	91	DER -Y-	Combination	Min	-0.008	-0.018	0.002	0.006	0.232	0.559
CUB-1	91	DER -Y-	Combination	Max	0.007	0.018	0.002	0.006	0.200	0.559
CUB-1	99	DER -X-	Combination	Max	0.027	0.006	0.008	0.002	0.814	0.190
CUB-1	99	DER -X-	Combination	Min	-0.026	-0.006	0.008	0.002	0.782	0.190
CUB-2	99	DER -X-	Combination	Min	-0.052	-0.014	0.008	0.002	0.797	0.222
CUB-2	99	DER -X-	Combination	Max	0.053	0.014	0.008	0.002	0.784	0.223

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-2	99	DER -Y-	Combination	Min	-0.016	-0.038	0.003	0.007	0.251	0.656
CUB-2	99	DER -Y-	Combination	Max	0.016	0.038	0.002	0.007	0.238	0.657
CUB-1	99	DER -Y-	Combination	Max	0.009	0.016	0.003	0.005	0.261	0.489
CUB-1	99	DER -Y-	Combination	Min	-0.008	-0.016	0.002	0.005	0.230	0.488
CUB-2	102	DER -X-	Combination	Max	0.053	0.018	0.009	0.003	0.858	0.274
CUB-2	102	DER -X-	Combination	Min	-0.052	-0.018	0.009	0.003	0.851	0.274
CUB-1	102	DER -X-	Combination	Max	0.024	0.009	0.007	0.003	0.737	0.265
CUB-1	102	DER -X-	Combination	Min	-0.024	-0.009	0.007	0.003	0.727	0.263
CUB-2	102	DER -Y-	Combination	Max	0.016	0.039	0.003	0.006	0.267	0.600
CUB-2	102	DER -Y-	Combination	Min	-0.016	-0.039	0.003	0.006	0.259	0.600
CUB-1	102	DER -Y-	Combination	Max	0.008	0.019	0.002	0.006	0.230	0.588
CUB-1	102	DER -Y-	Combination	Min	-0.007	-0.019	0.002	0.006	0.220	0.586
CUB-1	103	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.182	0.070
CUB-1	103	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.173	0.069
CUB-1	103	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.062	0.202
CUB-1	103	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.053	0.201
CUB-1	112	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.181	0.060
CUB-1	112	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.174	0.059
CUB-1	112	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.061	0.189
CUB-1	112	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.054	0.188
CUB-1	115	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.181	0.064
CUB-1	115	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.174	0.064
CUB-1	115	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.061	0.188
CUB-1	115	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.054	0.187
CUB-1	116	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.213	0.074
CUB-1	116	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.074
CUB-1	116	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.072	0.245
CUB-1	116	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.058	0.244
CUB-1	125	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.211	0.075
CUB-1	125	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.075
CUB-1	125	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.070	0.250
CUB-1	125	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.058	0.250
CUB-1	128	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.211	0.076
CUB-1	128	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.075
CUB-1	128	DER -Y-	Combination	Max	0.002	0.008	0.001	0.003	0.070	0.250
CUB-1	128	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.003	0.058	0.250
CUB-1	129	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.223	0.064
CUB-1	129	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.216	0.063
CUB-1	129	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.075	0.211
CUB-1	129	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.067	0.211
CUB-1	138	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.222	0.062
CUB-1	138	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.216	0.061
CUB-1	138	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.074	0.204
CUB-1	138	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.068	0.204
CUB-1	141	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.222	0.061
CUB-1	141	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.216	0.061
CUB-1	141	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.074	0.203
CUB-1	141	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.068	0.202
CUB-1	142	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.220	0.078
CUB-1	142	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.216	0.079
CUB-1	142	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.068	0.258
CUB-1	142	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.064	0.259
CUB-1	147	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.220	0.079
CUB-1	147	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.216	0.080
CUB-1	147	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.068	0.263
CUB-1	147	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.064	0.264
CUB-1	151	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.220	0.080
CUB-1	151	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.216	0.081
CUB-1	151	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.068	0.266
CUB-1	151	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.064	0.267
CUB-1	154	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.220	0.081
CUB-1	154	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.216	0.082
CUB-1	154	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.068	0.269
CUB-1	154	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.064	0.270

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-1	155	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.201	0.060
CUB-1	155	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.060
CUB-1	155	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.189
CUB-1	155	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.188
CUB-1	160	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.201	0.057
CUB-1	160	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.056
CUB-1	160	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.186
CUB-1	160	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.186
CUB-1	164	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.201	0.056
CUB-1	164	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.055
CUB-1	164	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	164	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.182
CUB-1	167	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.201	0.057
CUB-1	167	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.057
CUB-1	167	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	167	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.181
CUB-1	168	DER -X-	Combination	Min	-0.021	-0.010	0.006	0.003	0.639	0.289
CUB-1	168	DER -X-	Combination	Max	0.020	0.010	0.006	0.003	0.608	0.289
CUB-2	168	DER -X-	Combination	Max	0.047	0.018	0.008	0.003	0.826	0.268
CUB-2	168	DER -X-	Combination	Min	-0.046	-0.018	0.008	0.003	0.776	0.266
CUB-2	168	DER -Y-	Combination	Max	0.015	0.039	0.003	0.006	0.275	0.621
CUB-2	168	DER -Y-	Combination	Min	-0.014	-0.039	0.002	0.006	0.225	0.619
CUB-1	168	DER -Y-	Combination	Min	-0.007	-0.018	0.002	0.006	0.215	0.556
CUB-1	168	DER -Y-	Combination	Max	0.006	0.018	0.002	0.006	0.184	0.556
CUB-1	176	DER -X-	Combination	Max	0.024	0.006	0.007	0.002	0.724	0.189
CUB-1	176	DER -X-	Combination	Min	-0.023	-0.006	0.007	0.002	0.693	0.189
CUB-2	176	DER -X-	Combination	Min	-0.046	-0.014	0.007	0.002	0.718	0.223
CUB-2	176	DER -X-	Combination	Max	0.047	0.014	0.007	0.002	0.705	0.224
CUB-2	176	DER -Y-	Combination	Min	-0.014	-0.038	0.002	0.007	0.227	0.661
CUB-2	176	DER -Y-	Combination	Max	0.015	0.038	0.002	0.007	0.214	0.662
CUB-1	176	DER -Y-	Combination	Max	0.008	0.016	0.002	0.005	0.241	0.483
CUB-1	176	DER -Y-	Combination	Min	-0.007	-0.016	0.002	0.005	0.209	0.482
CUB-1	179	DER -X-	Combination	Max	0.022	0.009	0.007	0.003	0.659	0.264
CUB-1	179	DER -X-	Combination	Min	-0.021	-0.009	0.006	0.003	0.648	0.264
CUB-2	179	DER -X-	Combination	Max	0.047	0.018	0.008	0.003	0.768	0.276
CUB-2	179	DER -X-	Combination	Min	-0.046	-0.018	0.008	0.003	0.760	0.275
CUB-2	179	DER -Y-	Combination	Max	0.015	0.039	0.002	0.006	0.243	0.593
CUB-2	179	DER -Y-	Combination	Min	-0.014	-0.039	0.002	0.006	0.235	0.592
CUB-1	179	DER -Y-	Combination	Max	0.007	0.020	0.002	0.006	0.209	0.594
CUB-1	179	DER -Y-	Combination	Min	-0.007	-0.020	0.002	0.006	0.199	0.594
CUB-1	180	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.190	0.069
CUB-1	180	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.181	0.069
CUB-1	180	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.061	0.201
CUB-1	180	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.052	0.201
CUB-1	188	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.189	0.060
CUB-1	188	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.182	0.059
CUB-1	188	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.060	0.189
CUB-1	188	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.053	0.188
CUB-1	191	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.189	0.063
CUB-1	191	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.182	0.063
CUB-1	191	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.060	0.187
CUB-1	191	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.053	0.187
CUB-1	192	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.213	0.073
CUB-1	192	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.073
CUB-1	192	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.070	0.244
CUB-1	192	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.055	0.244
CUB-1	200	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.211	0.075
CUB-1	200	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.075
CUB-1	200	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.068	0.250
CUB-1	200	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.056	0.250
CUB-1	203	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.211	0.075
CUB-1	203	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.075
CUB-1	203	DER -Y-	Combination	Max	0.002	0.008	0.001	0.003	0.068	0.250
CUB-1	203	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.003	0.056	0.250

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-1	204	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.225	0.064
CUB-1	204	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.218	0.064
CUB-1	204	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.072	0.211
CUB-1	204	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.066	0.211
CUB-1	209	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.225	0.063
CUB-1	209	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.218	0.063
CUB-1	209	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.072	0.209
CUB-1	209	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.066	0.209
CUB-1	213	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.224	0.062
CUB-1	213	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.218	0.062
CUB-1	213	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.072	0.204
CUB-1	213	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.066	0.204
CUB-1	216	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.224	0.062
CUB-1	216	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.218	0.061
CUB-1	216	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.072	0.203
CUB-1	216	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.066	0.203
CUB-1	217	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.205	0.059
CUB-1	217	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.198	0.059
CUB-1	217	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.188
CUB-1	217	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.188
CUB-1	226	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.204	0.055
CUB-1	226	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.198	0.055
CUB-1	226	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	226	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.182
CUB-1	229	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.204	0.057
CUB-1	229	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.198	0.057
CUB-1	229	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	229	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.182
CUB-1	230	DER -X-	Combination	Max	0.016	0.010	0.005	0.003	0.490	0.290
CUB-1	230	DER -X-	Combination	Min	-0.016	-0.010	0.005	0.003	0.484	0.290
CUB-2	230	DER -X-	Combination	Max	0.041	0.018	0.008	0.003	0.758	0.267
CUB-2	230	DER -X-	Combination	Min	-0.040	-0.018	0.007	0.003	0.743	0.265
CUB-2	230	DER -Y-	Combination	Max	0.013	0.039	0.002	0.006	0.239	0.626
CUB-2	230	DER -Y-	Combination	Min	-0.013	-0.039	0.002	0.006	0.224	0.624
CUB-1	230	DER -Y-	Combination	Max	0.005	0.018	0.002	0.006	0.166	0.552
CUB-1	230	DER -Y-	Combination	Min	-0.005	-0.018	0.002	0.006	0.161	0.551
CUB-1	239	DER -X-	Combination	Max	0.016	0.006	0.005	0.002	0.492	0.188
CUB-1	239	DER -X-	Combination	Min	-0.016	-0.006	0.005	0.002	0.486	0.187
CUB-2	239	DER -X-	Combination	Max	0.041	0.014	0.008	0.002	0.752	0.225
CUB-2	239	DER -X-	Combination	Min	-0.040	-0.014	0.007	0.002	0.739	0.224
CUB-2	239	DER -Y-	Combination	Max	0.013	0.038	0.002	0.007	0.236	0.671
CUB-2	239	DER -Y-	Combination	Min	-0.013	-0.038	0.002	0.007	0.223	0.670
CUB-1	239	DER -Y-	Combination	Max	0.006	0.016	0.002	0.005	0.167	0.474
CUB-1	239	DER -Y-	Combination	Min	-0.005	-0.016	0.002	0.005	0.162	0.473
CUB-1	242	DER -X-	Combination	Max	0.016	0.009	0.005	0.003	0.492	0.267
CUB-1	242	DER -X-	Combination	Min	-0.016	-0.009	0.005	0.003	0.486	0.266
CUB-2	242	DER -X-	Combination	Max	0.041	0.018	0.007	0.003	0.750	0.274
CUB-2	242	DER -X-	Combination	Min	-0.040	-0.018	0.007	0.003	0.737	0.274
CUB-2	242	DER -Y-	Combination	Max	0.013	0.039	0.002	0.007	0.235	0.712
CUB-2	242	DER -Y-	Combination	Min	-0.013	-0.039	0.002	0.007	0.222	0.712
CUB-1	242	DER -Y-	Combination	Max	0.006	0.016	0.002	0.005	0.168	0.474
CUB-1	242	DER -Y-	Combination	Min	-0.005	-0.016	0.002	0.005	0.162	0.473
CUB-1	243	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.220	0.078
CUB-1	243	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.215	0.079
CUB-1	243	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.073	0.258
CUB-1	243	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.069	0.259
CUB-1	248	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.219	0.079
CUB-1	248	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.215	0.080
CUB-1	248	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.073	0.263
CUB-1	248	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.069	0.264
CUB-1	252	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.219	0.080
CUB-1	252	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.215	0.081
CUB-1	252	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.072	0.266
CUB-1	252	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.068	0.267

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-1	255	DER -X-	Combination	Max	0.007	0.003	0.002	0.001	0.219	0.081
CUB-1	255	DER -X-	Combination	Min	-0.007	-0.003	0.002	0.001	0.215	0.082
CUB-1	255	DER -Y-	Combination	Max	0.002	0.009	0.001	0.003	0.072	0.268
CUB-1	255	DER -Y-	Combination	Min	-0.002	-0.009	0.001	0.003	0.068	0.270
CUB-1	256	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.213	0.074
CUB-1	256	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.074
CUB-1	256	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.072	0.244
CUB-1	256	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.058	0.245
CUB-1	265	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.211	0.075
CUB-1	265	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.075
CUB-1	265	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.070	0.250
CUB-1	265	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.058	0.250
CUB-1	268	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.211	0.075
CUB-1	268	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.199	0.076
CUB-1	268	DER -Y-	Combination	Max	0.002	0.008	0.001	0.003	0.070	0.250
CUB-1	268	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.003	0.058	0.250
CUB-1	269	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.198	0.068
CUB-1	269	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.189	0.068
CUB-1	269	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.068	0.201
CUB-1	269	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.059	0.201
CUB-1	278	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.197	0.059
CUB-1	278	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.189	0.059
CUB-1	278	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.067	0.189
CUB-1	278	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.188
CUB-1	281	DER -X-	Combination	Max	0.006	0.002	0.002	0.001	0.197	0.063
CUB-1	281	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.190	0.063
CUB-1	281	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.067	0.187
CUB-1	281	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.060	0.187
CUB-1	282	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.224	0.065
CUB-1	282	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.217	0.065
CUB-1	282	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.070	0.212
CUB-1	282	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.063	0.212
CUB-1	287	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.223	0.063
CUB-1	287	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.217	0.063
CUB-1	287	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.070	0.209
CUB-1	287	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.064	0.209
CUB-1	291	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.223	0.062
CUB-1	291	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.217	0.062
CUB-1	291	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.070	0.204
CUB-1	291	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.064	0.204
CUB-1	294	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.223	0.063
CUB-1	294	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.217	0.062
CUB-1	294	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.070	0.203
CUB-1	294	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.064	0.203
CUB-1	295	DER -X-	Combination	Max	0.012	0.010	0.004	0.003	0.362	0.289
CUB-1	295	DER -X-	Combination	Min	-0.012	-0.010	0.004	0.003	0.355	0.289
CUB-1	295	DER -Y-	Combination	Max	0.004	0.018	0.001	0.005	0.117	0.546
CUB-1	295	DER -Y-	Combination	Min	-0.004	-0.018	0.001	0.005	0.111	0.546
CUB-1	304	DER -X-	Combination	Max	0.012	0.006	0.004	0.002	0.361	0.186
CUB-1	304	DER -X-	Combination	Min	-0.012	-0.006	0.004	0.002	0.356	0.186
CUB-1	304	DER -Y-	Combination	Max	0.004	0.015	0.001	0.005	0.116	0.468
CUB-1	304	DER -Y-	Combination	Min	-0.004	-0.015	0.001	0.005	0.111	0.467
CUB-1	307	DER -X-	Combination	Max	0.012	0.009	0.004	0.003	0.361	0.267
CUB-1	307	DER -X-	Combination	Min	-0.012	-0.009	0.004	0.003	0.356	0.266
CUB-1	307	DER -Y-	Combination	Max	0.004	0.016	0.001	0.005	0.116	0.472
CUB-1	307	DER -Y-	Combination	Min	-0.004	-0.016	0.001	0.005	0.111	0.471
CUB-1	308	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.208	0.058
CUB-1	308	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.202	0.058
CUB-1	308	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.188
CUB-1	308	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.188
CUB-1	313	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.207	0.056
CUB-1	313	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.201	0.056
CUB-1	313	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.186
CUB-1	313	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.186

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-1	317	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.207	0.055
CUB-1	317	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.202	0.055
CUB-1	317	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	317	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.182
CUB-1	320	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.207	0.056
CUB-1	320	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.202	0.056
CUB-1	320	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.065	0.182
CUB-1	320	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.059	0.182
CUB-1	321	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.074
CUB-1	321	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.197	0.074
CUB-1	321	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.072	0.244
CUB-1	321	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.060	0.245
CUB-1	325	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.075
CUB-1	325	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.197	0.075
CUB-1	325	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.072	0.249
CUB-1	325	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.060	0.250
CUB-1	330	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.075
CUB-1	330	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.197	0.075
CUB-1	330	DER -Y-	Combination	Max	0.002	0.008	0.001	0.002	0.071	0.250
CUB-1	330	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.002	0.059	0.250
CUB-1	333	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.076
CUB-1	333	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.197	0.076
CUB-1	333	DER -Y-	Combination	Max	0.002	0.008	0.001	0.003	0.071	0.250
CUB-1	333	DER -Y-	Combination	Min	-0.002	-0.008	0.001	0.003	0.059	0.250
CUB-1	334	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.203	0.068
CUB-1	334	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.068
CUB-1	334	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.073	0.201
CUB-1	334	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.065	0.201
CUB-1	339	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.202	0.060
CUB-1	339	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.061
CUB-1	339	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.073	0.195
CUB-1	339	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.066	0.196
CUB-1	343	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.202	0.059
CUB-1	343	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.059
CUB-1	343	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.073	0.188
CUB-1	343	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.066	0.188
CUB-1	346	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.202	0.062
CUB-1	346	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.062
CUB-1	346	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.073	0.187
CUB-1	346	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.066	0.187
CUB-1	347	DER -X-	Combination	Max	0.009	0.010	0.003	0.003	0.262	0.288
CUB-1	347	DER -X-	Combination	Min	-0.008	-0.010	0.003	0.003	0.256	0.288
CUB-1	347	DER -Y-	Combination	Max	0.004	0.018	0.001	0.005	0.108	0.544
CUB-1	347	DER -Y-	Combination	Min	-0.003	-0.018	0.001	0.005	0.103	0.544
CUB-1	356	DER -X-	Combination	Max	0.009	0.006	0.003	0.002	0.260	0.186
CUB-1	356	DER -X-	Combination	Min	-0.008	-0.006	0.003	0.002	0.256	0.185
CUB-1	356	DER -Y-	Combination	Max	0.004	0.015	0.001	0.005	0.108	0.466
CUB-1	356	DER -Y-	Combination	Min	-0.003	-0.015	0.001	0.005	0.103	0.465
CUB-1	359	DER -X-	Combination	Max	0.009	0.009	0.003	0.003	0.260	0.266
CUB-1	359	DER -X-	Combination	Min	-0.008	-0.009	0.003	0.003	0.255	0.265
CUB-1	359	DER -Y-	Combination	Max	0.004	0.016	0.001	0.005	0.108	0.472
CUB-1	359	DER -Y-	Combination	Min	-0.003	-0.016	0.001	0.005	0.103	0.470
CUB-1	360	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.221	0.066
CUB-1	360	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.214	0.066
CUB-1	360	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.071	0.212
CUB-1	360	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.065	0.212
CUB-1	365	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.221	0.063
CUB-1	365	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.214	0.063
CUB-1	365	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.071	0.209
CUB-1	365	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.065	0.209
CUB-1	369	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.220	0.062
CUB-1	369	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.214	0.062
CUB-1	369	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.071	0.204
CUB-1	369	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.065	0.204

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-1	372	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.220	0.063
CUB-1	372	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.214	0.063
CUB-1	372	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.071	0.203
CUB-1	372	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.065	0.203
CUB-1	373	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.210	0.057
CUB-1	373	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.204	0.057
CUB-1	373	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.067	0.188
CUB-1	373	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.061	0.188
CUB-1	378	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.056
CUB-1	378	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.204	0.056
CUB-1	378	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.067	0.186
CUB-1	378	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.061	0.186
CUB-1	382	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.055
CUB-1	382	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.204	0.055
CUB-1	382	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.182
CUB-1	382	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.061	0.182
CUB-1	385	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.055
CUB-1	385	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.204	0.055
CUB-1	385	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.066	0.181
CUB-1	385	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.061	0.181
CUB-1	386	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.216	0.067
CUB-1	386	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.209	0.067
CUB-1	386	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.073	0.212
CUB-1	386	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.065	0.212
CUB-1	395	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.215	0.062
CUB-1	395	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.209	0.062
CUB-1	395	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.072	0.204
CUB-1	395	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.066	0.204
CUB-1	398	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.215	0.064
CUB-1	398	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.209	0.064
CUB-1	398	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.072	0.203
CUB-1	398	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.066	0.203
CUB-1	399	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.208	0.057
CUB-1	399	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.202	0.057
CUB-1	399	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.068	0.188
CUB-1	399	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.062	0.188
CUB-1	404	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.207	0.056
CUB-1	404	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.202	0.056
CUB-1	404	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.068	0.186
CUB-1	404	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.062	0.186
CUB-1	408	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.207	0.055
CUB-1	408	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.202	0.055
CUB-1	408	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.067	0.182
CUB-1	408	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.062	0.182
CUB-1	411	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.207	0.055
CUB-1	411	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.202	0.055
CUB-1	411	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.067	0.181
CUB-1	411	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.062	0.181
CUB-1	412	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.210	0.067
CUB-1	412	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.204	0.067
CUB-1	412	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.073	0.212
CUB-1	412	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.067	0.212
CUB-1	417	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.210	0.063
CUB-1	417	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.204	0.064
CUB-1	417	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.073	0.209
CUB-1	417	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.067	0.210
CUB-1	421	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.062
CUB-1	421	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.204	0.062
CUB-1	421	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.073	0.204
CUB-1	421	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.067	0.204
CUB-1	424	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.209	0.064
CUB-1	424	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.203	0.064
CUB-1	424	DER -Y-	Combination	Max	0.002	0.007	0.001	0.002	0.073	0.203
CUB-1	424	DER -Y-	Combination	Min	-0.002	-0.007	0.001	0.002	0.067	0.203

Story	Label	Output Case	Case Type	Step Type	Disp X m	Disp Y m	Drift X	Drift Y	% X	% Y
CUB-1	425	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.204	0.057
CUB-1	425	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.198	0.058
CUB-1	425	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.068	0.188
CUB-1	425	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.062	0.188
CUB-1	434	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.203	0.055
CUB-1	434	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.198	0.055
CUB-1	434	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.068	0.182
CUB-1	434	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.063	0.182
CUB-1	437	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.203	0.056
CUB-1	437	DER -X-	Combination	Min	-0.007	-0.002	0.002	0.001	0.198	0.056
CUB-1	437	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.068	0.181
CUB-1	437	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.063	0.181
CUB-1	438	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.200	0.057
CUB-1	438	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.195	0.058
CUB-1	438	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.069	0.188
CUB-1	438	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.063	0.188
CUB-1	443	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.200	0.056
CUB-1	443	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.194	0.056
CUB-1	443	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.069	0.186
CUB-1	443	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.063	0.186
CUB-1	447	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.200	0.055
CUB-1	447	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.194	0.055
CUB-1	447	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.069	0.182
CUB-1	447	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.063	0.182
CUB-1	450	DER -X-	Combination	Max	0.007	0.002	0.002	0.001	0.199	0.056
CUB-1	450	DER -X-	Combination	Min	-0.006	-0.002	0.002	0.001	0.194	0.056
CUB-1	450	DER -Y-	Combination	Max	0.002	0.006	0.001	0.002	0.068	0.181
CUB-1	450	DER -Y-	Combination	Min	-0.002	-0.006	0.001	0.002	0.063	0.181

6. TORSIONES / IRREGULARIDADES

Revisión Irregularidades

A.3.3.7 — EDIFICACIONES EN ZONAS DE AMENAZA SÍSMICA INTERMEDIA DEL GRUPO DE USO I — Para las edificaciones pertenecientes al grupo de uso **I**, localizadas en zonas de amenaza sísmica intermedia, la evaluación para determinar si la edificación es irregular o no, puede limitarse a irregularidades en planta de los tipos 1aP, 1bP, 3P y 4P (tabla A.3-6) y en altura de los tipos 4A, 5aA y 5bA (tabla A.3-7).

Grupo de uso **I**
Zona de amenaza sismica **intermedia**

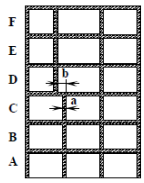
Irregularidades en planta. Tabla A.3.6 del NSR10

Tipo	Descripción	Aplica?	Hay irregularidad?	ΦP
1aP	Irregularidad en planta 1aP	Si	Si	0.9
1bP	Irregularidad en planta 1bP	Si	No	1.0
2P	Retrocesos en las esquinas	No	No	1.0
3P	Irregularidad del diafragma	Si	No	1.0
4P	Desplazamiento de los planos de acción	Si	No	1.0
5P	Sistemas no paralelos	No	No	1.0
				0.9

Irregularidades en altura. Tabla A.3.7 del NSR10

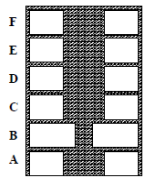
Tipo	Descripción	Aplica?	Hay irregularidad?	ΦA
1aA	Piso Flexible 1aA	No	No	1.0
1bA	Piso Flexible 1bA	No	No	1.0
2A	Irregul en la distribución de masas	No	No	1.0
3A	Irregularidad geometrica	No	No	1.0
4A	Desplaz. Dentro del plano de acción	Si	No	1.0
5aA	Piso débil 5aA	Si	No	1.0
5bA	Piso débil 5bA	Si	No	1.0
				1.0

Irregularidad Tipo 4A

Tipo 4A — Desplazamiento dentro del plano de acción — $\phi_a = 0.8$ **b > a**	

a [m]	b [m]	Hay irregularidad?
0	0	No

Irregularidad Tipo 5A

Tipo 5aA — Piso débil **$\phi_a = 0.9$** **0.65 Resist. Piso C ≤ Resist. Piso B < 0.80 Resist. Piso C**	
Tipo 5bA — Piso débil extremo **$\phi_a = 0.8$** **Resistencia Piso B < 0.65 Resistencia Piso C**	

Hay irregularidad?
No

Irregularidad por ausencia de redundancia A.3.3.8 del NSR10

SÍ existe ausencia de redundancia, por tanto, el coeficiente debe ser: 0.75

7. COMBINACIONES DE CARGAS

FACTORES DE DISEÑO

ESTRUCTURAS I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

Altura del edificio h: 3.30m

Zona de Amenaza Sísmica: Disipación Moderada Energía -DMO-

Zona : **SUELO TIPO E** (Estudio Geotécnico)

C_t= 0.047

$T=C_t*h^{\alpha}$= 0.138 α = 0.90 *para sistemas aporticados en concreto*

Si: $T < 0.5 \longrightarrow K = 1.0$

Si: $0.5 < T < 2.5 \longrightarrow K = (0.5*T)+0.75$

Si: $2.5 < T \longrightarrow K = 2.0$

K = 1.00

Configuración en planta : ϕ_P = 0.90

Configuración en altura : ϕ_A = 0.90

Ausencia de redundancia : ϕ_R = 0.75 → * Dos ejes columnas

R_o = 5.00
Ω_o = 3.00
} Pórticos resistentes a momentos (A-1.3.5 del Reglamento Colombiano NSR-10)

Coeficiente de capacidad de disipación de energía para diseño:

Valor de $R = \phi_A*\phi_P * \phi_R*R_o$ = 3.04 (A.3.3.3. NSR-10)

Método de Análisis Sísmico : (A.3.4. NSR-10)
Fuerza Horizontal Equivalente -FHE-

Factores de reducción para las fuerzas sísmicas :

1.0/R = 0.33
0.3/R = 0.10
} Para diseño de columnas, vigas

ESTRUCTURAS I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

CM = Carga Muerta
CV = Carga Viva
CG = Carga Lluvia
CR = Carga Real (CM+CV)
SX = Sismo X sin reducir
SY = Sismo Y sin reducir
CW = Carga Viento

CHEQUEO DE DERIVAS

DER -X-	DER1	1.40	CM									
	DER2	1.00	CM	+	1.00	CV	+	0.50	CG			
	DER3	1.00	CM	+	1.00	CV				+	0.50	CW
	DER4	1.00	CM	+	1.00	CV	+	0.50	CG	+	0.50	CW
	DER5	1.00	CM	+	1.00	CV	+	1.00	SX	+	0.30	SY
	DER6	1.00	CM	+	1.00	CV	+	1.00	SX	-	0.30	SY
	DER7	1.00	CM	+	1.00	CV	-	1.00	SX	+	0.30	SY
	DER8	1.00	CM	+	1.00	CV	-	1.00	SX	-	0.30	SY
	DER9	0.90	CM	+	1.00	SX	+	0.30	SY			
	DER10	0.90	CM	+	1.00	SX	-	0.30	SY			
	DER11	0.90	CM	-	1.00	SX	+	0.30	SY			
	DER12	0.90	CM	-	1.00	SX	-	0.30	SY			
	DER21	1.20	CM	+	1.60	CV						
	DER22	1.00	CM	+	1.00	CV						
DER -Y-	DER1	1.40	CM									
	DER2	1.00	CM	+	1.00	CV	+	0.50	CG			
	DER3	1.00	CM	+	1.00	CV				+	0.50	CW
	DER4	1.00	CM	+	1.00	CV	+	0.50	CG	+	0.50	CW
	DER13	1.00	CM	+	1.00	CV	+	1.00	SY	+	0.30	SX
	DER14	1.00	CM	+	1.00	CV	+	1.00	SY	-	0.30	SX
	DER15	1.00	CM	+	1.00	CV	-	1.00	SY	+	0.30	SX
	DER16	1.00	CM	+	1.00	CV	-	1.00	SY	-	0.30	SX
	DER17	0.90	CM	+	1.00	SY	+	0.30	SX			
	DER18	0.90	CM	+	1.00	SY	-	0.30	SX			
	DER19	0.90	CM	-	1.00	SY	+	0.30	SX			
	DER20	0.90	CM	-	1.00	SY	-	0.30	SX			
	DER21	1.20	CM	+	1.60	CV						
	DER22	1.00	CM	+	1.00	CV						

DISEÑO FLEXIÓN Y CORTANTE : VIGAS, COLUMNAS

DIS ENV	DIS1	1.40	CM									
	DIS2	1.00	CM	+	1.00	CV	+	0.50	CG			
	DIS3	1.00	CM	+	1.00	CV				+	0.50	CW
	DIS4	1.00	CM	+	1.00	CV	+	0.50	CG	+	0.50	CW
	DIS5	1.00	CM	+	1.00	CV	+	0.33	SX	+	0.10	SY
	DIS6	1.00	CM	+	1.00	CV	+	0.33	SX	-	0.10	SY
	DIS7	1.00	CM	+	1.00	CV	-	0.33	SX	+	0.10	SY
	DIS8	1.00	CM	+	1.00	CV	-	0.33	SX	-	0.10	SY
	DIS9	0.90	CM	+	0.33	SX	+	0.10	SY			
	DIS10	0.90	CM	+	0.33	SX	-	0.10	SY			
	DIS11	0.90	CM	-	0.33	SX	+	0.10	SY			
	DIS12	0.90	CM	-	0.33	SX	-	0.10	SY			
	DIS13	1.00	CM	+	1.00	CV	+	0.33	SY	+	0.10	SX
	DIS14	1.00	CM	+	1.00	CV	+	0.33	SY	-	0.10	SX
	DIS15	1.00	CM	+	1.00	CV	-	0.33	SY	+	0.10	SX
	DIS16	1.00	CM	+	1.00	CV	-	0.33	SY	-	0.10	SX
	DIS17	0.90	CM	+	0.33	SY	+	0.10	SX			
	DIS18	0.90	CM	+	0.33	SY	-	0.10	SX			
	DIS19	0.90	CM	-	0.33	SY	+	0.10	SX			
	DIS20	0.90	CM	-	0.33	SY	-	0.10	SX			
	DIS21	1.20	CM	+	1.60	CV						
	DIS22	1.00	CM	+	1.00	CV						

REVISIÓN CORTANTE

Este procedimiento tiene por finalidad realizar un chequeo de las fuerzas cortantes de acuerdo a C.21.3 del NSR-10 .

CORTANTE VIGAS

Se verifica el cortante en vigas como el doble del sismo, comparándolo con las combinaciones del literal B del presente, escogiendo el mayor.

CORT VIG	CV1	1.40	CM									
	CV2	1.20	CM	+	1.00	CV	+	0.50	CG			
	CV3	1.00	CM	+	1.00	CV				+	0.50	CW
	CV4	1.00	CM	+	1.00	CV	+	0.5	CG	+	0.50	CW
	CV5	1.00	CM	+	1.00	CV	+	0.66	SX	+	0.20	SY
	CV6	1.00	CM	+	1.00	CV	+	0.66	SX	-	0.20	SY
	CV7	1.00	CM	+	1.00	CV	-	0.66	SX	+	0.20	SY
	CV8	1.00	CM	+	1.00	CV	-	0.66	SX	-	0.20	SY
	CV9	0.90	CM	+	0.66	SX	+	0.20	SY			
	CV10	0.90	CM	+	0.66	SX	-	0.20	SY			
	CV11	0.90	CM	-	0.66	SX	+	0.20	SY			
	CV12	0.90	CM	-	0.66	SX	-	0.20	SY			
	CV13	1.00	CM	+	1.00	CV	+	0.66	SY	+	0.20	SX
	CV14	1.00	CM	+	1.00	CV	+	0.66	SY	-	0.20	SX
	CV15	1.00	CM	+	1.00	CV	-	0.66	SY	+	0.20	SX
	CV16	1.00	CM	+	1.00	CV	-	0.66	SY	-	0.20	SX
	CV17	0.90	CM	+	0.66	SY	+	0.20	SX			
	CV18	0.90	CM	+	0.66	SY	-	0.20	SX			
	CV19	0.90	CM	-	0.66	SY	+	0.20	SX			
	CV20	0.90	CM	-	0.66	SY	-	0.20	SX			
	CV21	1.20	CM	+	1.60	CV						
	CV22	1.00	CM	+	1.00	CV						

CORTANTE COLUMNAS

Se verifica el cortante incrementando las fuerzas sísmicas por el coeficiente de sobrerresistencia Ωo y se compara con el primer análisis, escogiendo el mayor.

CORT COL	CC1	1.40	CM									
	CC2	1.00	CM	+	1.00	CV	+	0.50	CG			
	CC3	1.00	CM	+	1.00	CV				+	0.50	CW
	CC4	1.00	CM	+	1.00	CV	+	0.50	CG	+	0.50	CW
	CC5	1.00	CM	+	1.00	CV	+	0.99	SX	+	0.30	SY
	CC6	1.00	CM	+	1.00	CV	+	0.99	SX	-	0.30	SY
	CC7	1.00	CM	+	1.00	CV	-	0.99	SX	+	0.30	SY
	CC8	1.00	CM	+	1.00	CV	-	0.99	SX	-	0.30	SY
	CC9	0.90	CM	+	0.99	SX	+	0.30	SY			
	CC10	0.90	CM	+	0.99	SX	-	0.30	SY			
	CC11	0.90	CM	-	0.99	SX	+	0.30	SY			
	CC12	0.90	CM	-	0.99	SX	-	0.30	SY			
	CC13	1.00	CM	+	1.00	CV	+	0.99	SY	+	0.30	SX
	CC14	1.00	CM	+	1.00	CV	+	0.99	SY	-	0.30	SX
	CC15	1.00	CM	+	1.00	CV	-	0.99	SY	+	0.30	SX
	CC16	1.00	CM	+	1.00	CV	-	0.99	SY	-	0.30	SX
	CC17	0.90	CM	+	0.99	SY	+	0.30	SX			
	CC18	0.90	CM	+	0.99	SY	-	0.30	SX			
	CC19	0.90	CM	-	0.99	SY	+	0.30	SX			
	CC20	0.90	CM	-	0.99	SY	-	0.30	SX			
	CC21	1.20	CM	+	1.60	CV						
	CC22	1.00	CM	+	1.00	CV						

DISEÑO CORREAS

SE DISEÑA CON LA MAYOR (ENVOLVENTE)

	1.40	CM									
	1.00	CM	+	1.00	CV	+	0.50	CG			
	1.00	CM	+	1.00	CV				+	0.50	CW
	1.20	CM	+	1.60	CV						
	1.00	CM	+	1.00	CV						

8. DISEÑO COLUMNAS

C O N C R E T E P R E F E R E N C E S

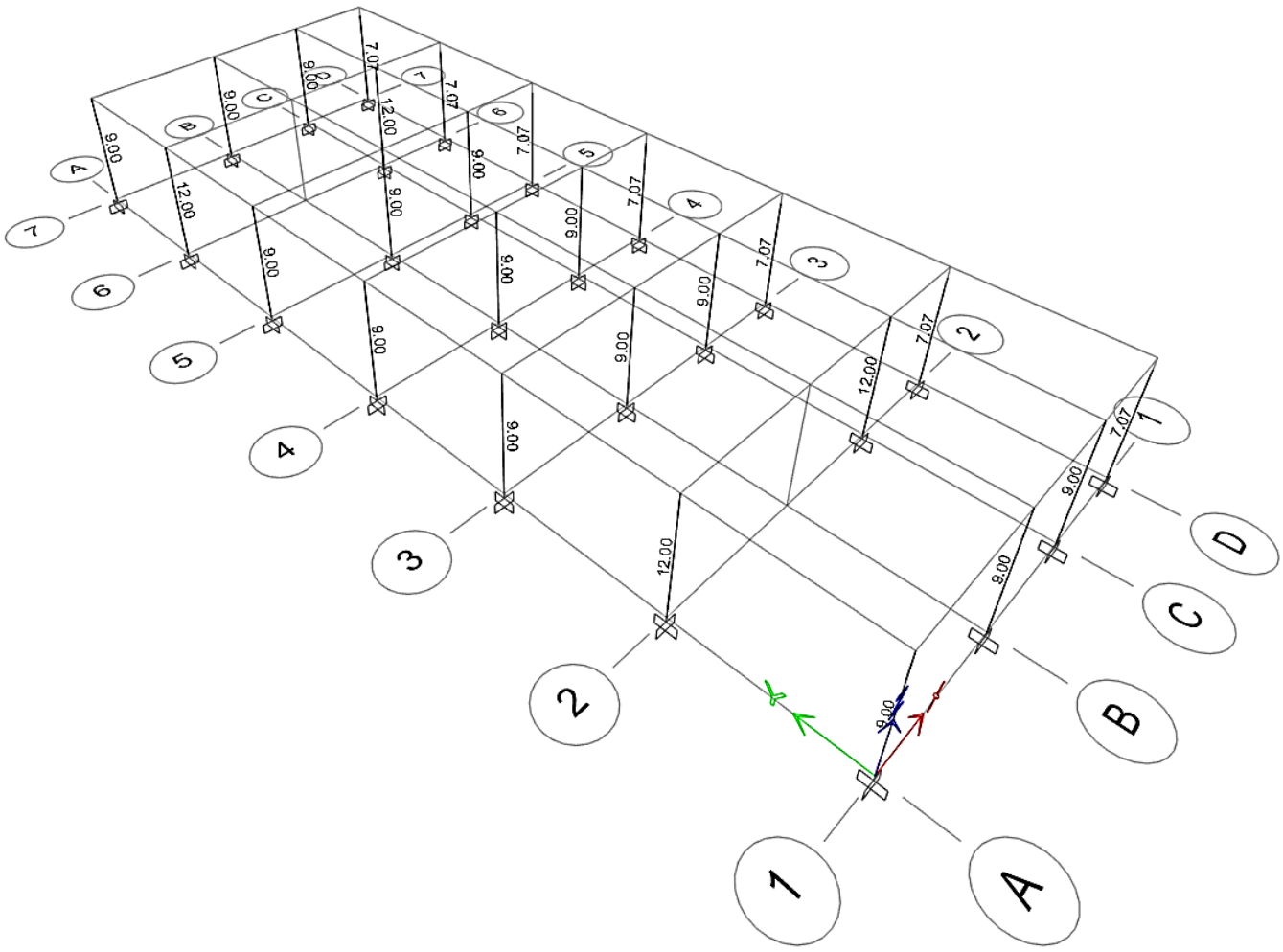
C O D E : : N S R - 1 0

Phi (Tension Controlled)	:	0.90
Phi (Comp. Controlled Tied)	:	0.65
Phi (Comp. Controlled Spiral)	:	0.75
Phi (Shear and/or Torsion)	:	0.75
Phi (Shear Seismic)	:	0.60
Phi (Shear Joint)	:	0.85

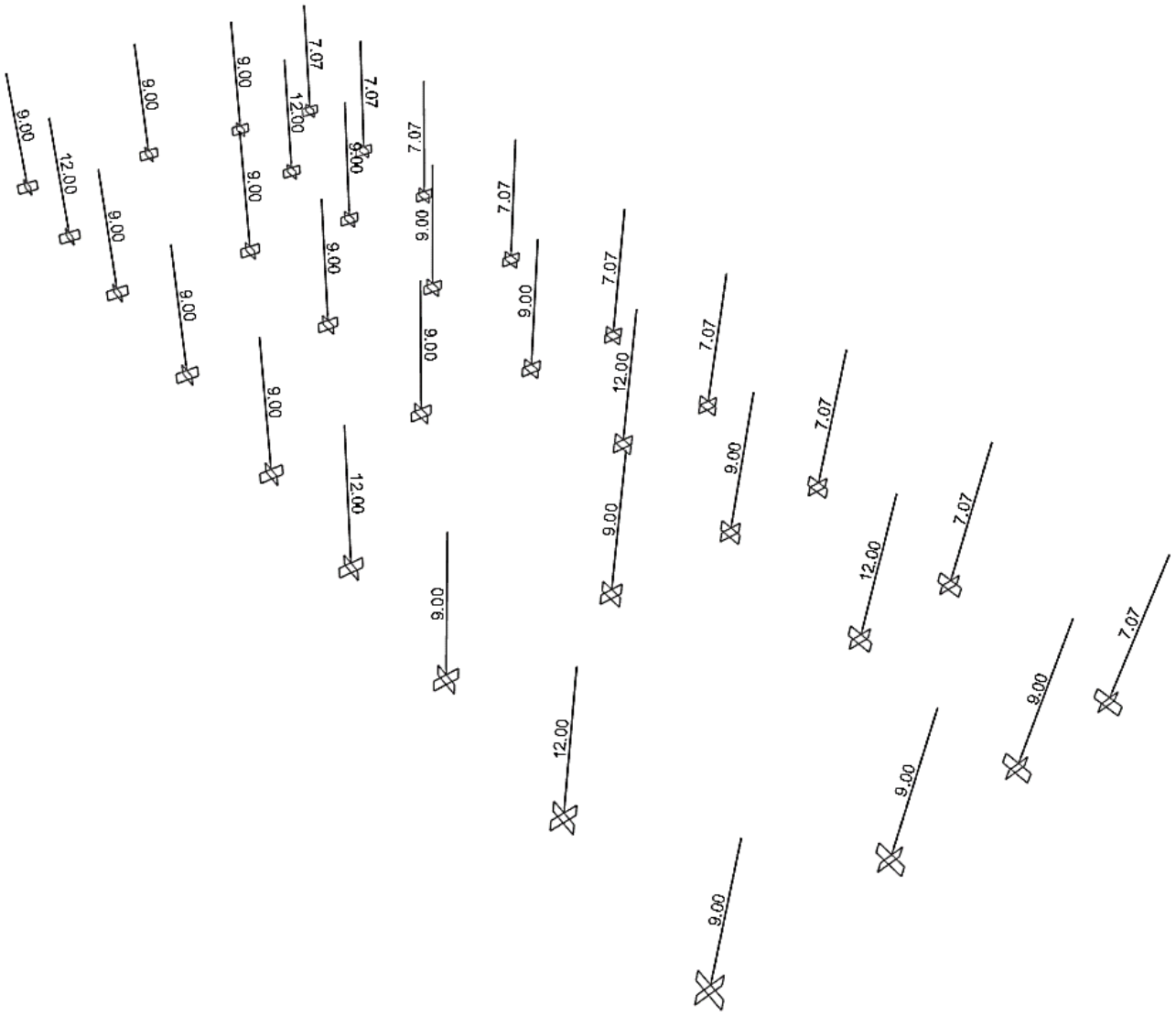
8.1. FLEXIÓN

L O A D I N G C O M B I N A T I O N S

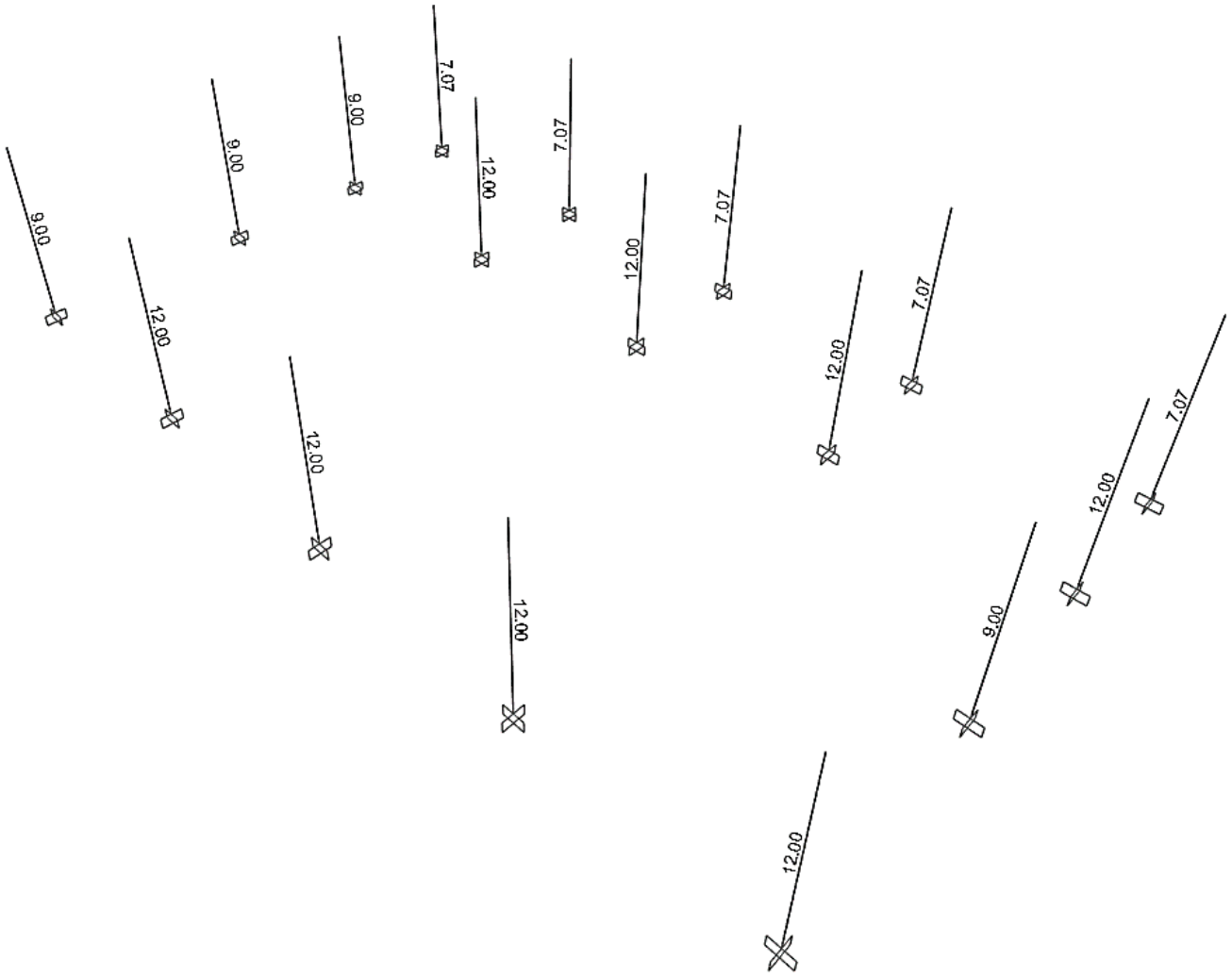
COMBO	COMBO TYPE	CASE	CASE TYPE	SCALE FACTOR
ENVDIS	ENVE	DIS1	Combo	1.0000
		DIS2	Combo	1.0000
		DIS3	Combo	1.0000
		DIS4	Combo	1.0000
		DIS5	Combo	1.0000
		DIS6	Combo	1.0000
		DIS7	Combo	1.0000
		DIS8	Combo	1.0000
		DIS9	Combo	1.0000
		DIS10	Combo	1.0000
		DIS11	Combo	1.0000
		DIS12	Combo	1.0000
		DIS13	Combo	1.0000
		DIS14	Combo	1.0000
		DIS15	Combo	1.0000
		DIS16	Combo	1.0000
		DIS17	Combo	1.0000
		DIS18	Combo	1.0000
		DIS19	Combo	1.0000
		DIS20	Combo	1.0000
		DIS21	Combo	1.0000
		DIS22	Combo	1.0000



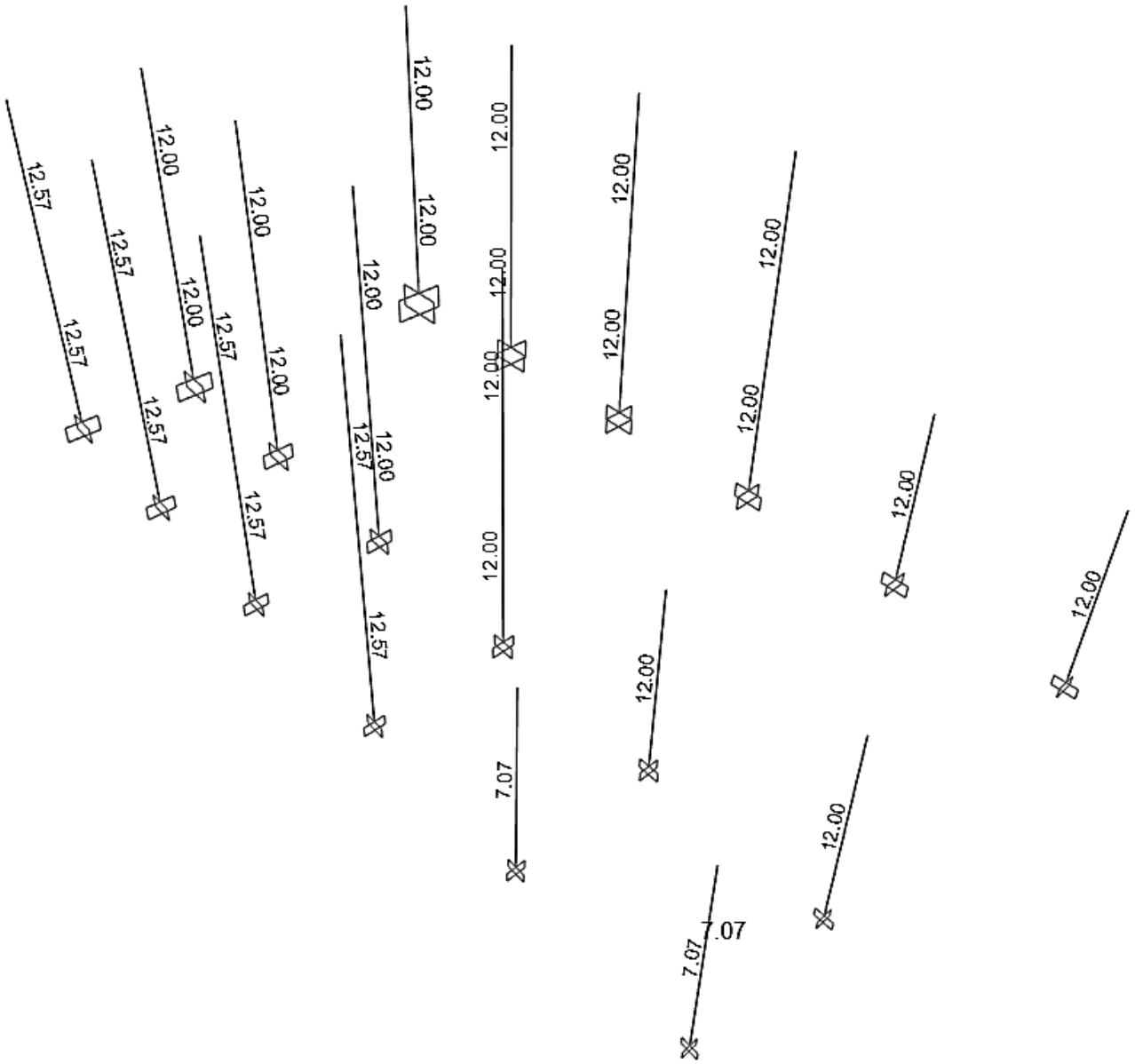
PREESCOLAR cm²



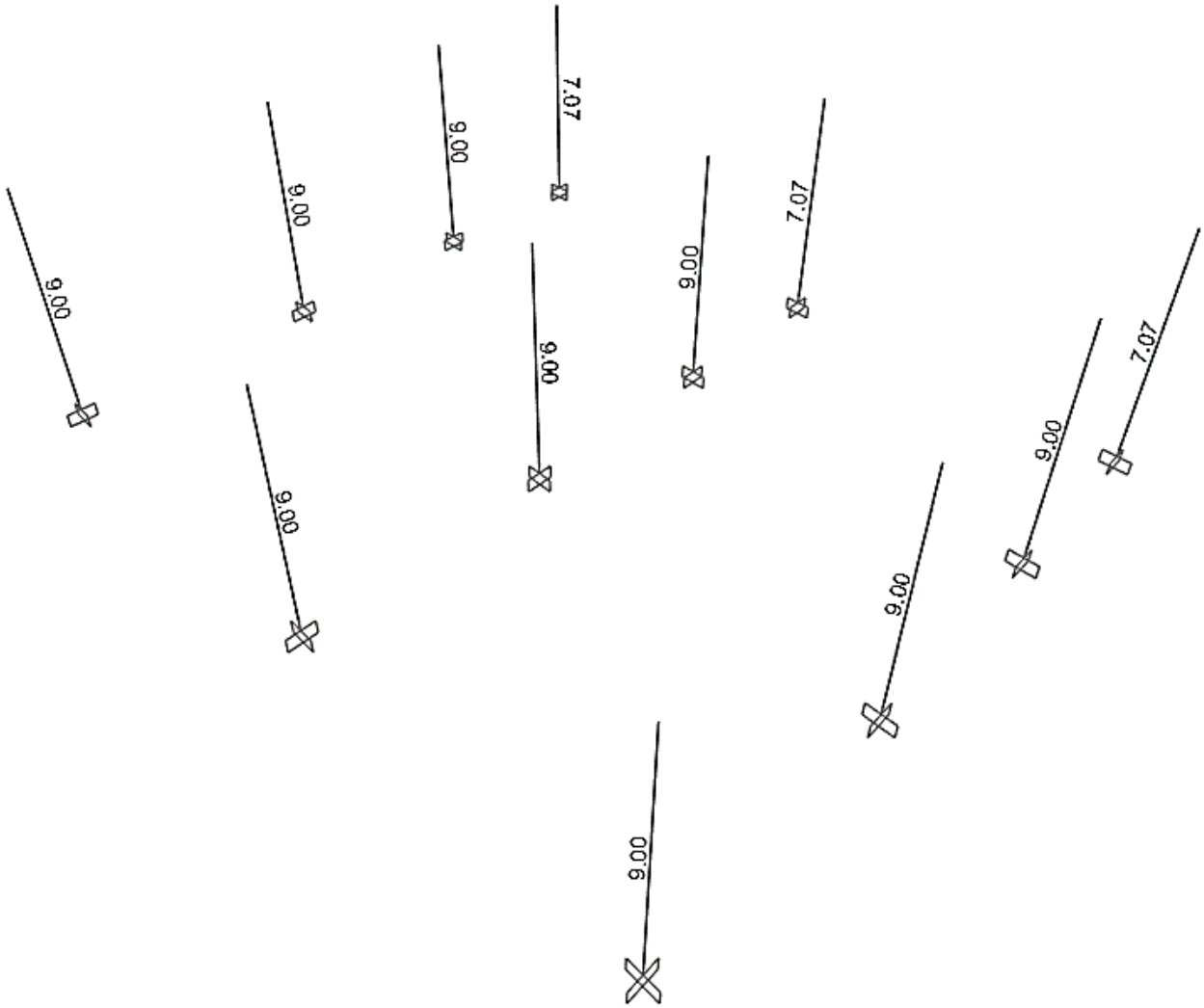
SECUNDARIA cm²



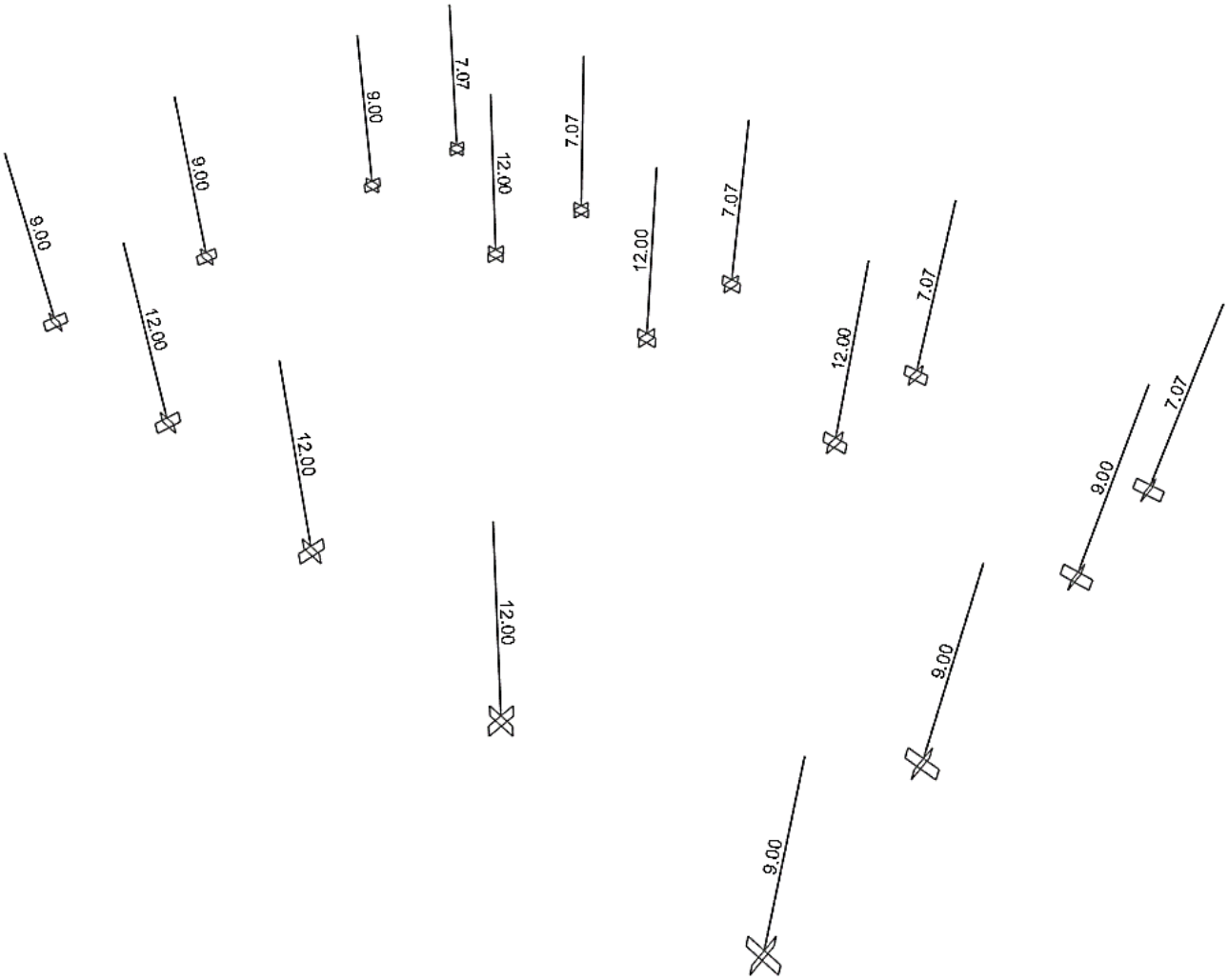
MULTIPROPÓSITO cm²



RESTAURANTE cm²



ADMINISTRACIÓN cm²

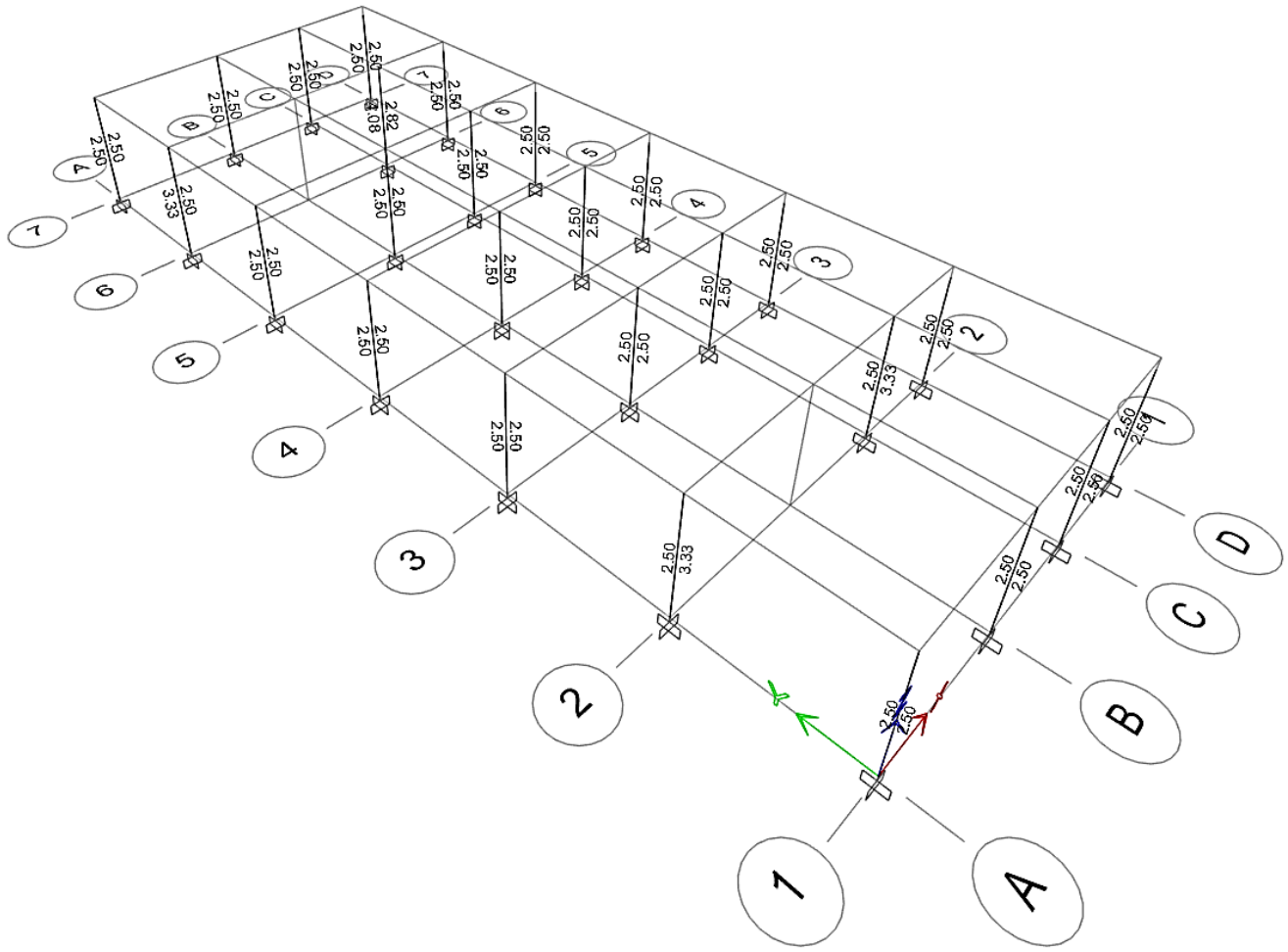


BIBLIOTECA cm²

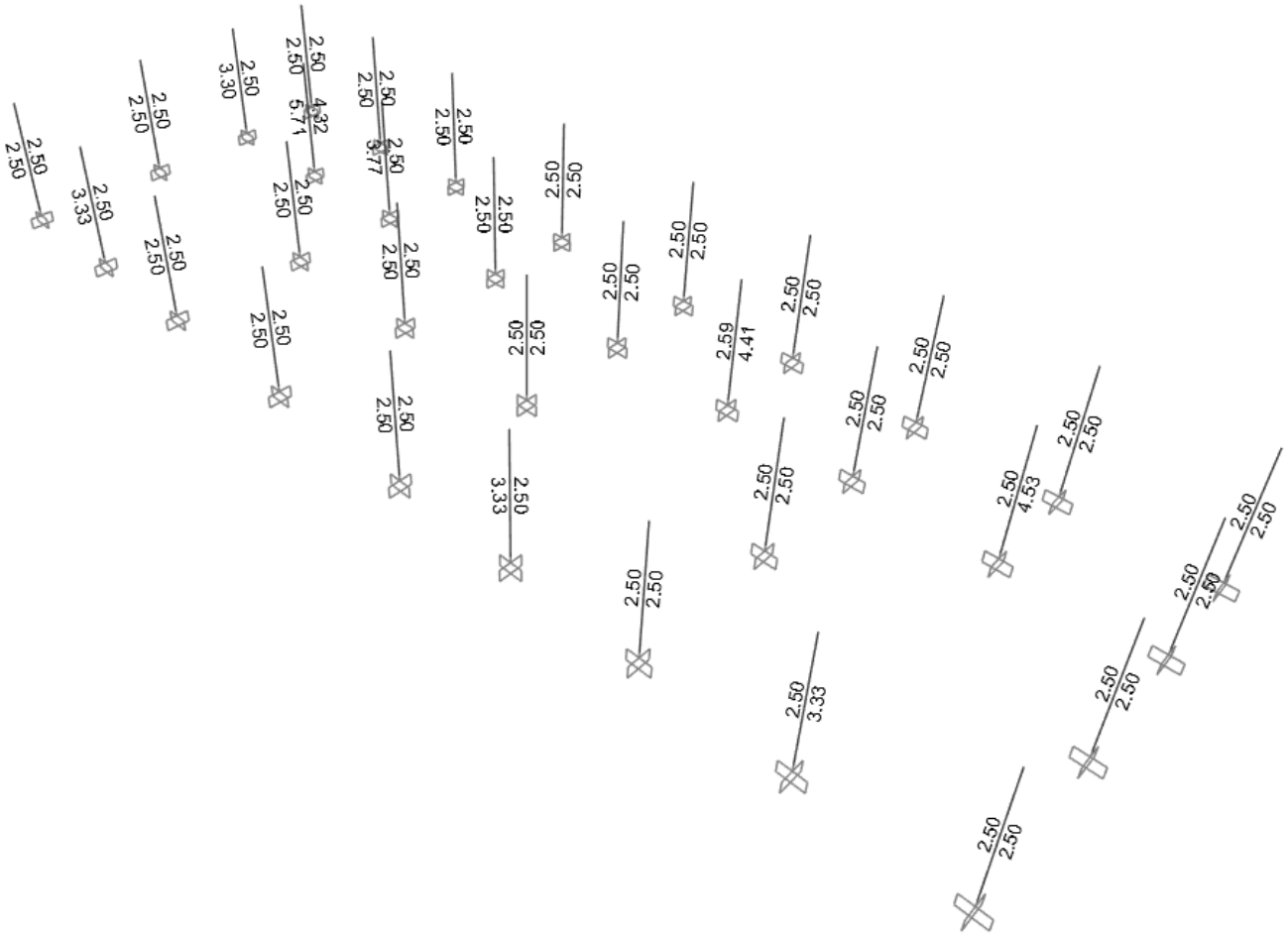
8.2. CORTANTE COLUMNAS

COMBO	COMBO TYPE	CASE	CASE TYPE	SCALE FACTOR
CORT COL	ENVE	DIS1	Combo	1.0
		DIS2	Combo	1.0
		DIS3	Combo	1.0
		DIS4	Combo	1.0
		DIS5	Combo	1.0
		DIS6	Combo	1.0
		DIS7	Combo	1.0
		DIS8	Combo	1.0
		DIS9	Combo	1.0
		DIS10	Combo	1.0
		DIS11	Combo	1.0
		DIS12	Combo	1.0
		DIS13	Combo	1.0
		DIS14	Combo	1.0
		DIS15	Combo	1.0
		DIS16	Combo	1.0
		DIS17	Combo	1.0
		DIS18	Combo	1.0

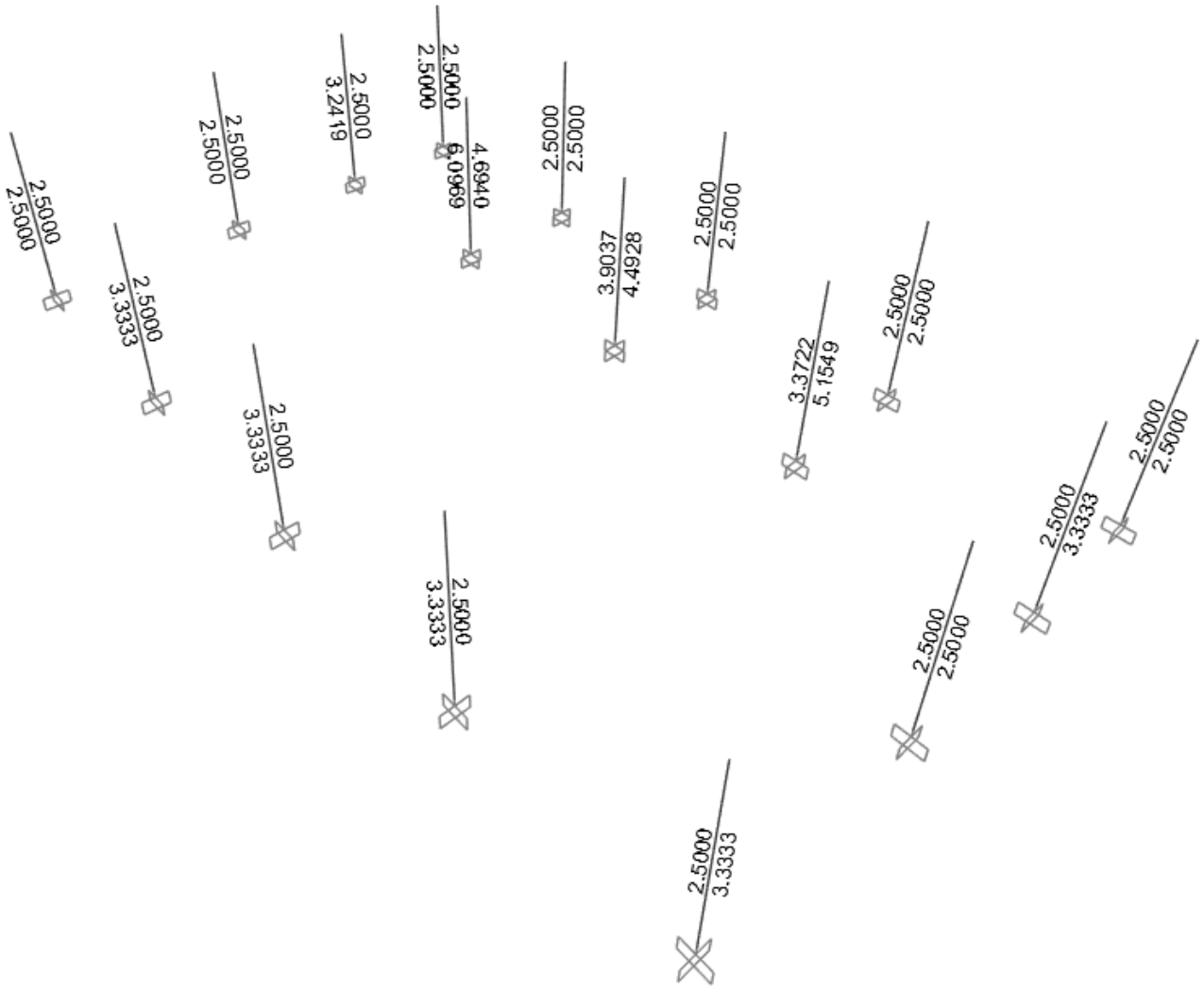
DIS19	Combo	1.0
DIS20	Combo	1.0
DIS21	Combo	1.0
DIS22	Combo	1.0
CC1	Combo	1.0
CC2	Combo	1.0
CC3	Combo	1.0
CC4	Combo	1.0
CC5	Combo	1.0
CC6	Combo	1.0
CC7	Combo	1.0
CC8	Combo	1.0
CC9	Combo	1.0
CC10	Combo	1.0
CC11	Combo	1.0
CC12	Combo	1.0
CC13	Combo	1.0
CC14	Combo	1.0
CC15	Combo	1.0
CC16	Combo	1.0
CC17	Combo	1.0
CC18	Combo	1.0
CC19	Combo	1.0
CC20	Combo	1.0
CC21	Combo	1.0
CC22	Combo	1.0



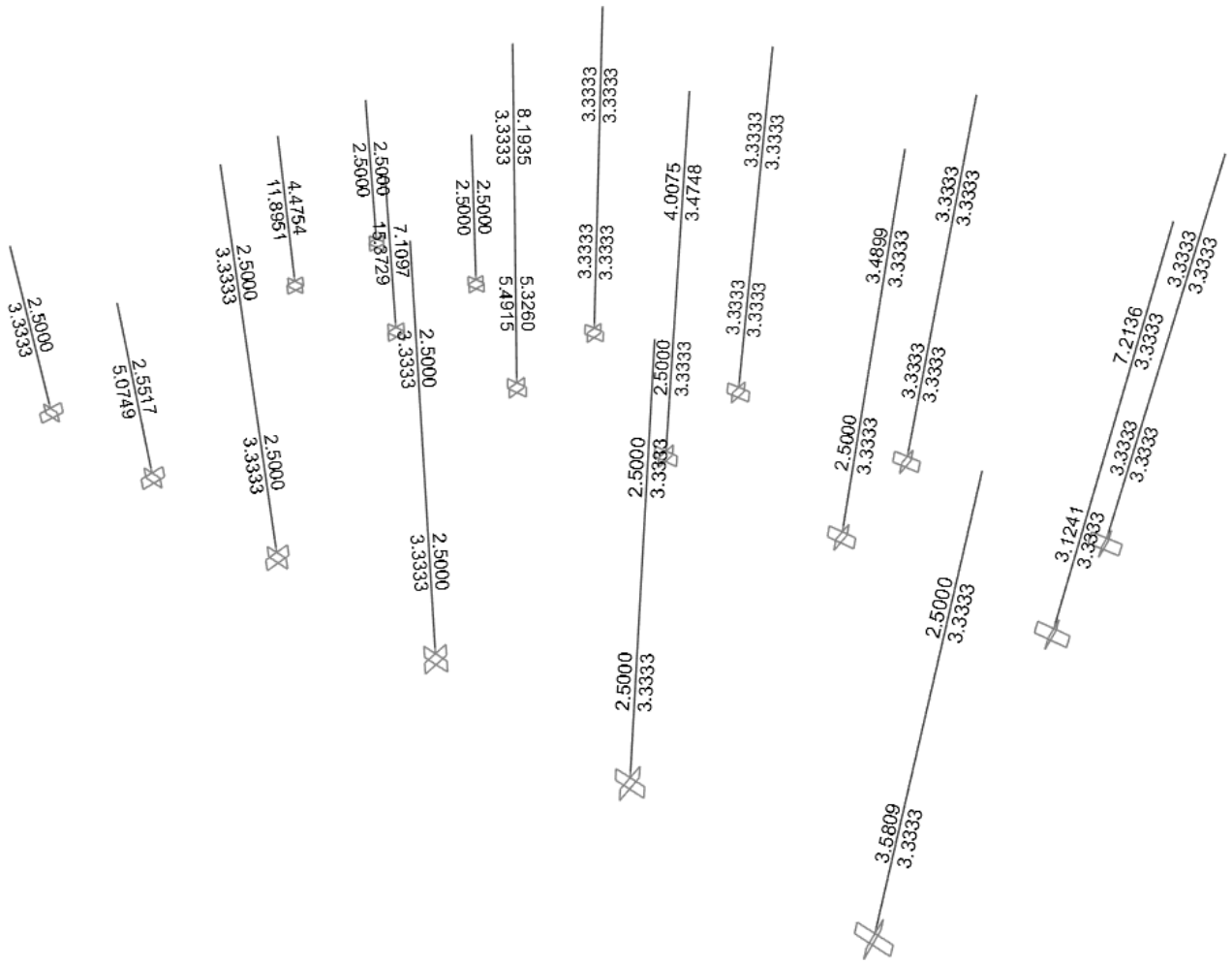
PREESCOLAR cm²/m



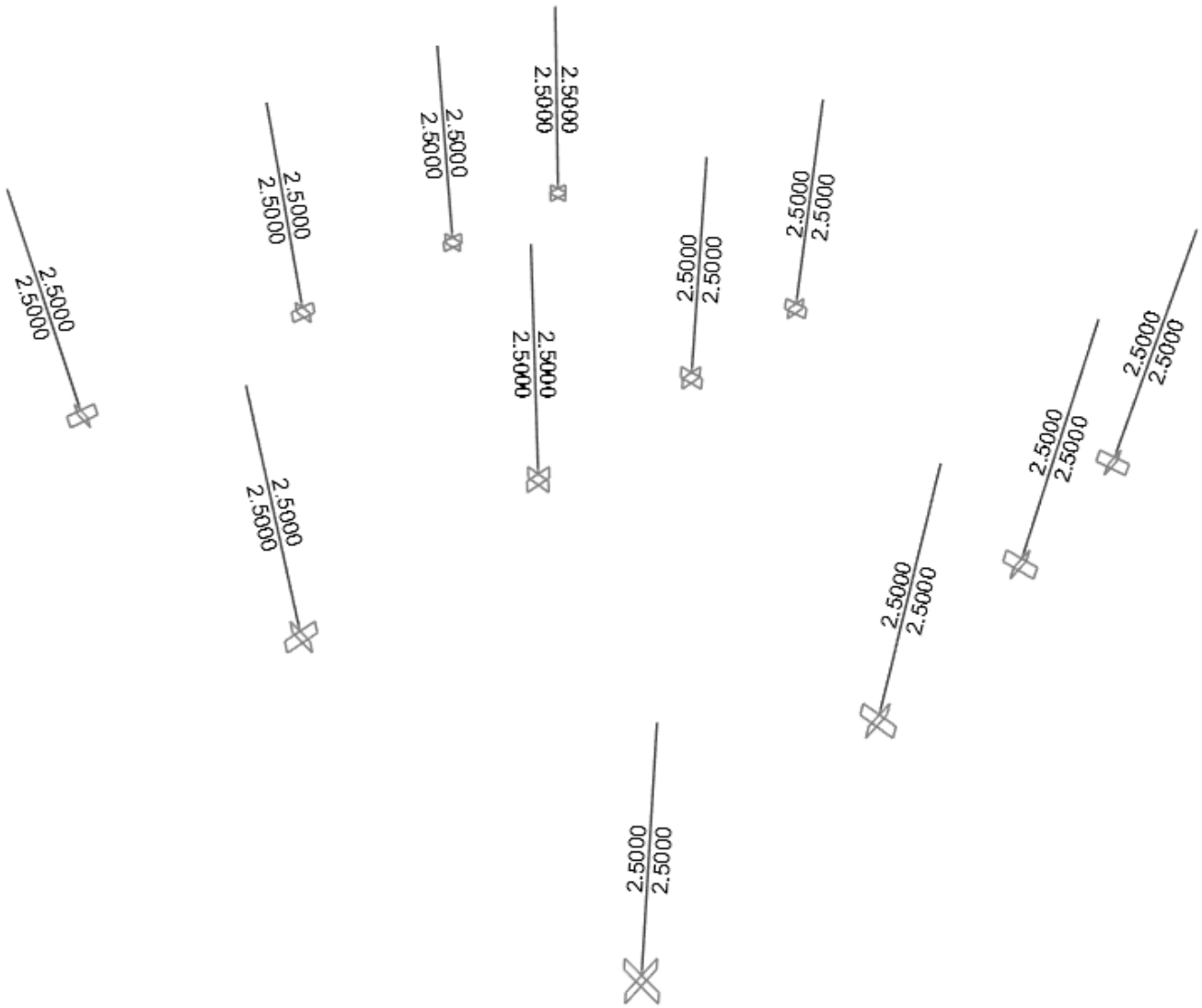
SECUNDARIA cm²/m



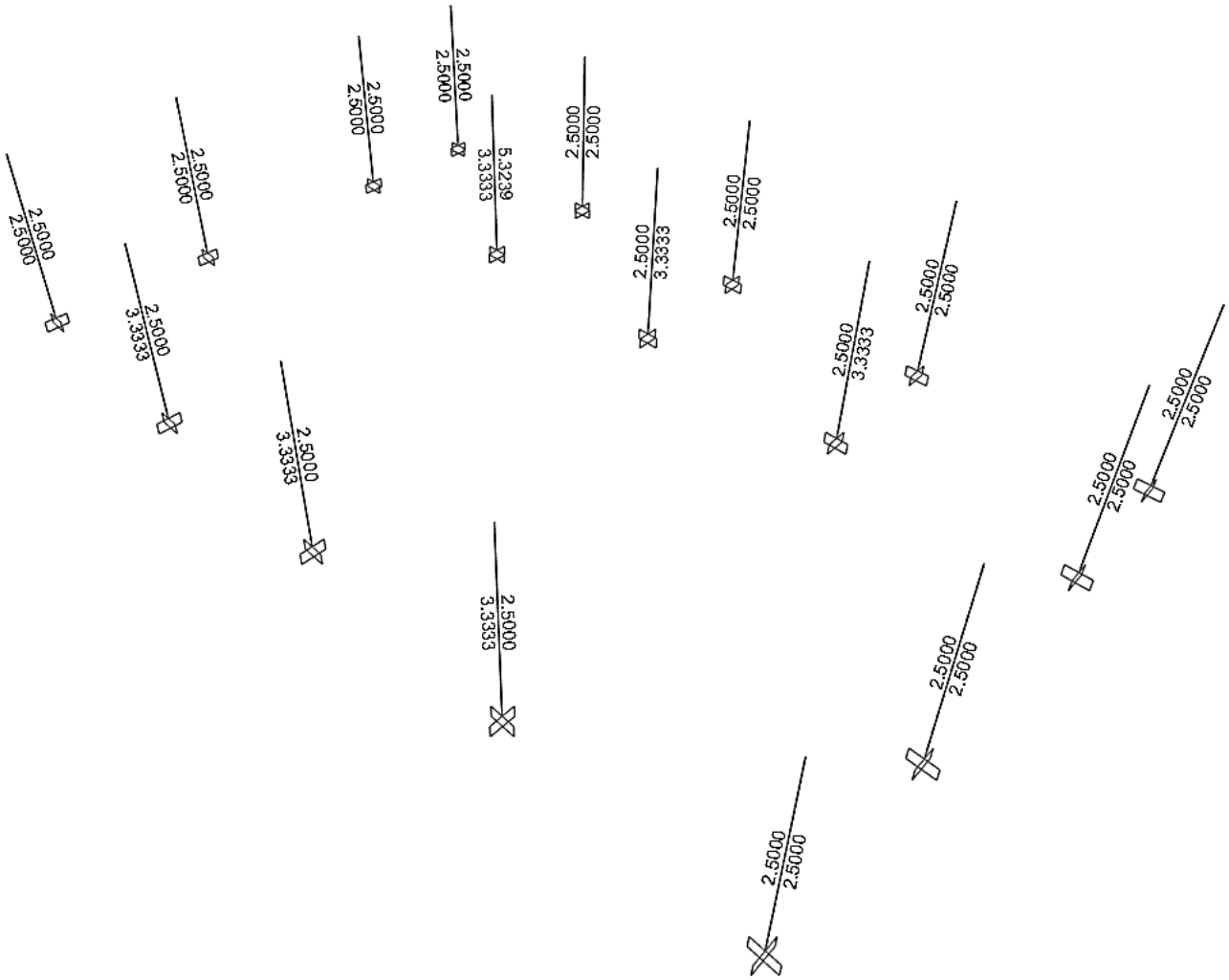
MULTIPROPÓSITO cm²/m



RESTAURANTE cm²/m



ADMINISTRACIÓN cm²/m



BIBLIOTECA cm²/m

9. DISEÑO VIGAS

C O N C R E T E P R E F E R E N C E S

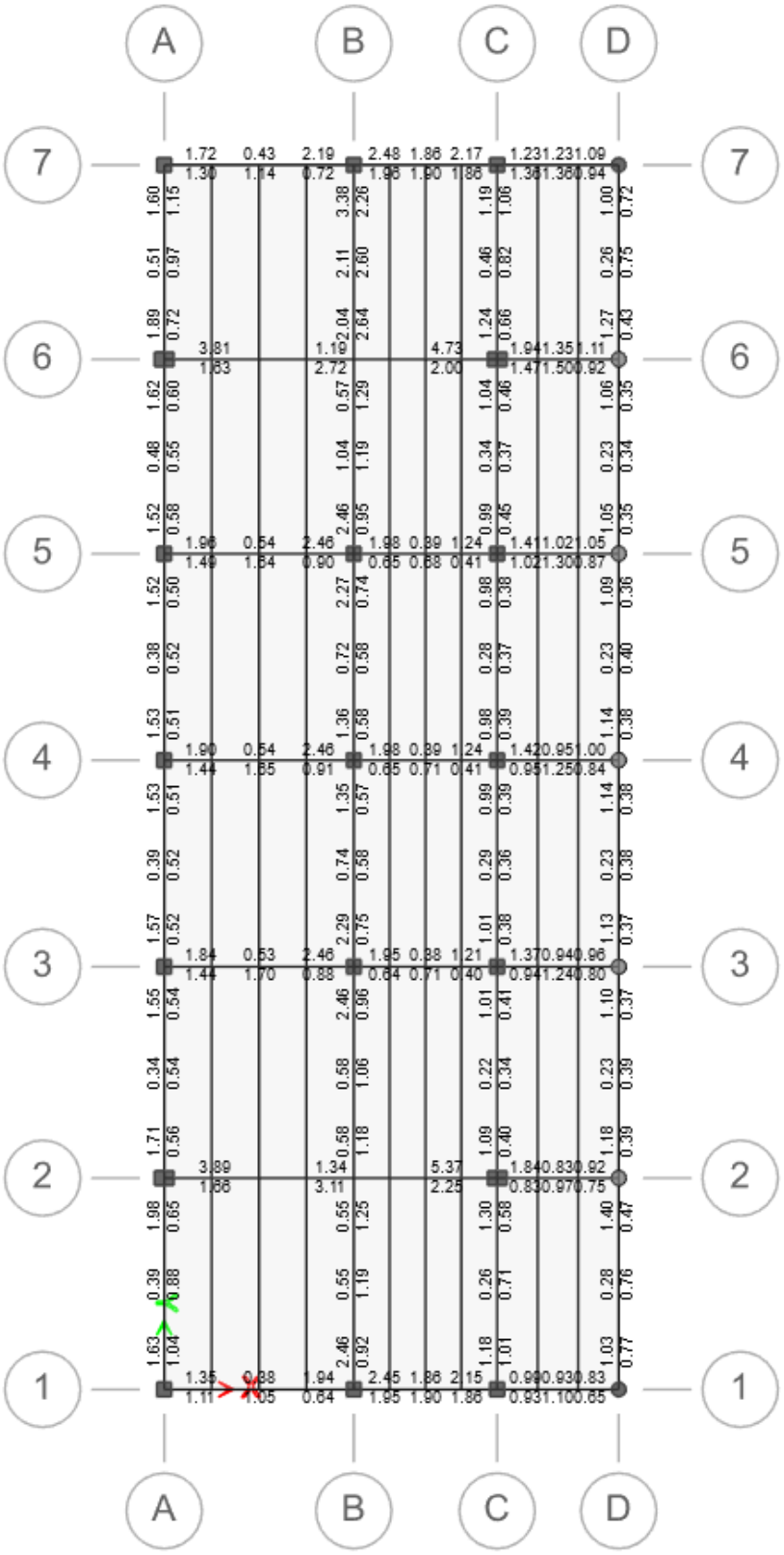
C O D E : : N S R - 1 0

Phi (Tension Controlled)	:	0.90
Phi (Comp. Controlled Tied)	:	0.65
Phi (Comp. Controlled Spiral)	:	0.75
Phi (Shear and/or Torsion)	:	0.75
Phi (Shear Seismic)	:	0.60
Phi (Shear Joint)	:	0.85

9.1. FLEXIÓN VIGAS

L O A D I N G C O M B I N A T I O N S

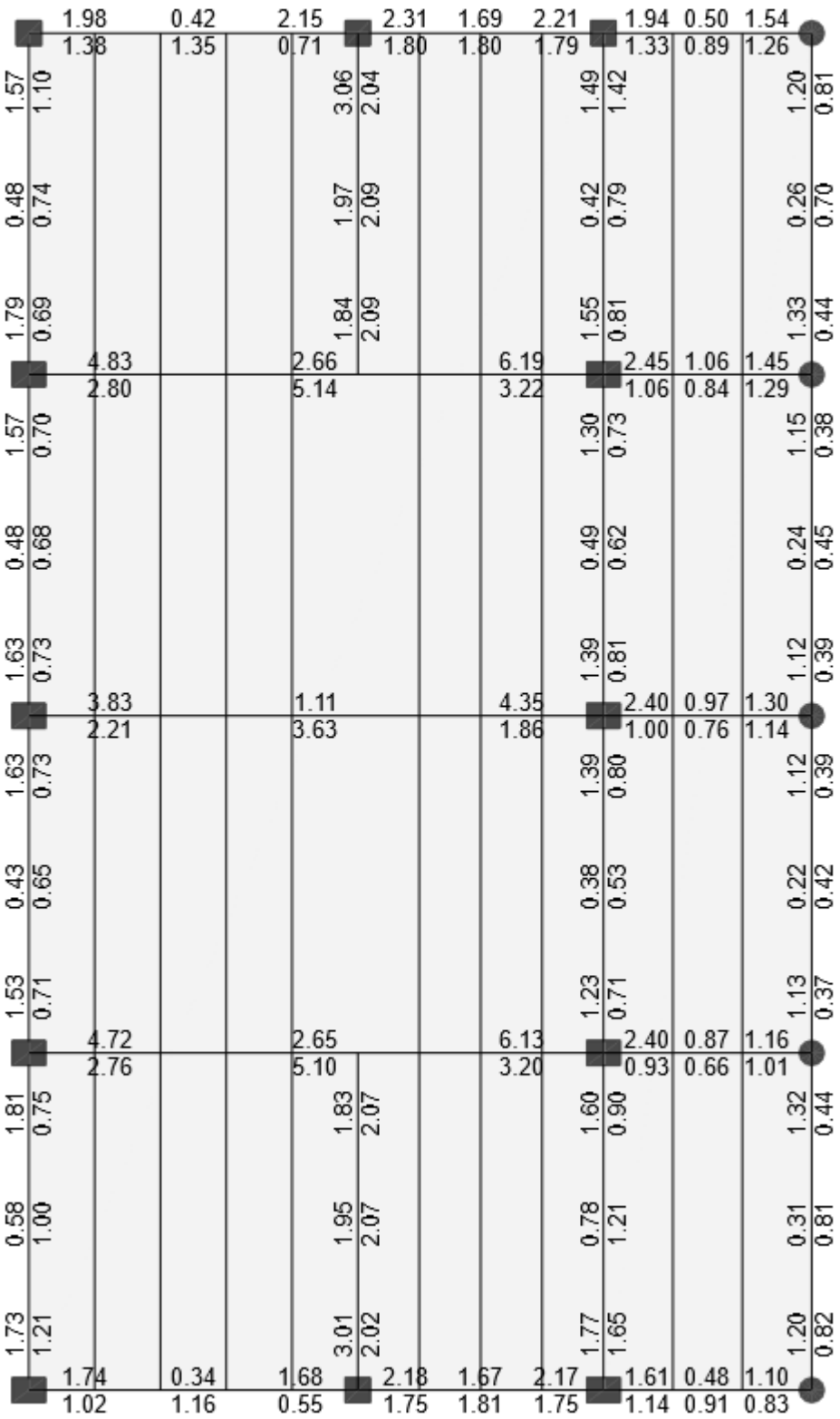
COMBO	COMBO TYPE	CASE	CASE TYPE	SCALE FACTOR
ENVDIS	ENVE	DIS1	Combo	1.0000
		DIS2	Combo	1.0000
		DIS3	Combo	1.0000
		DIS4	Combo	1.0000
		DIS5	Combo	1.0000
		DIS6	Combo	1.0000
		DIS7	Combo	1.0000
		DIS8	Combo	1.0000
		DIS9	Combo	1.0000
		DIS10	Combo	1.0000
		DIS11	Combo	1.0000
		DIS12	Combo	1.0000
		DIS13	Combo	1.0000
		DIS14	Combo	1.0000
		DIS15	Combo	1.0000
		DIS16	Combo	1.0000
		DIS17	Combo	1.0000
		DIS18	Combo	1.0000
		DIS19	Combo	1.0000
		DIS20	Combo	1.0000
		DIS21	Combo	1.0000
		DIS22	Combo	1.0000



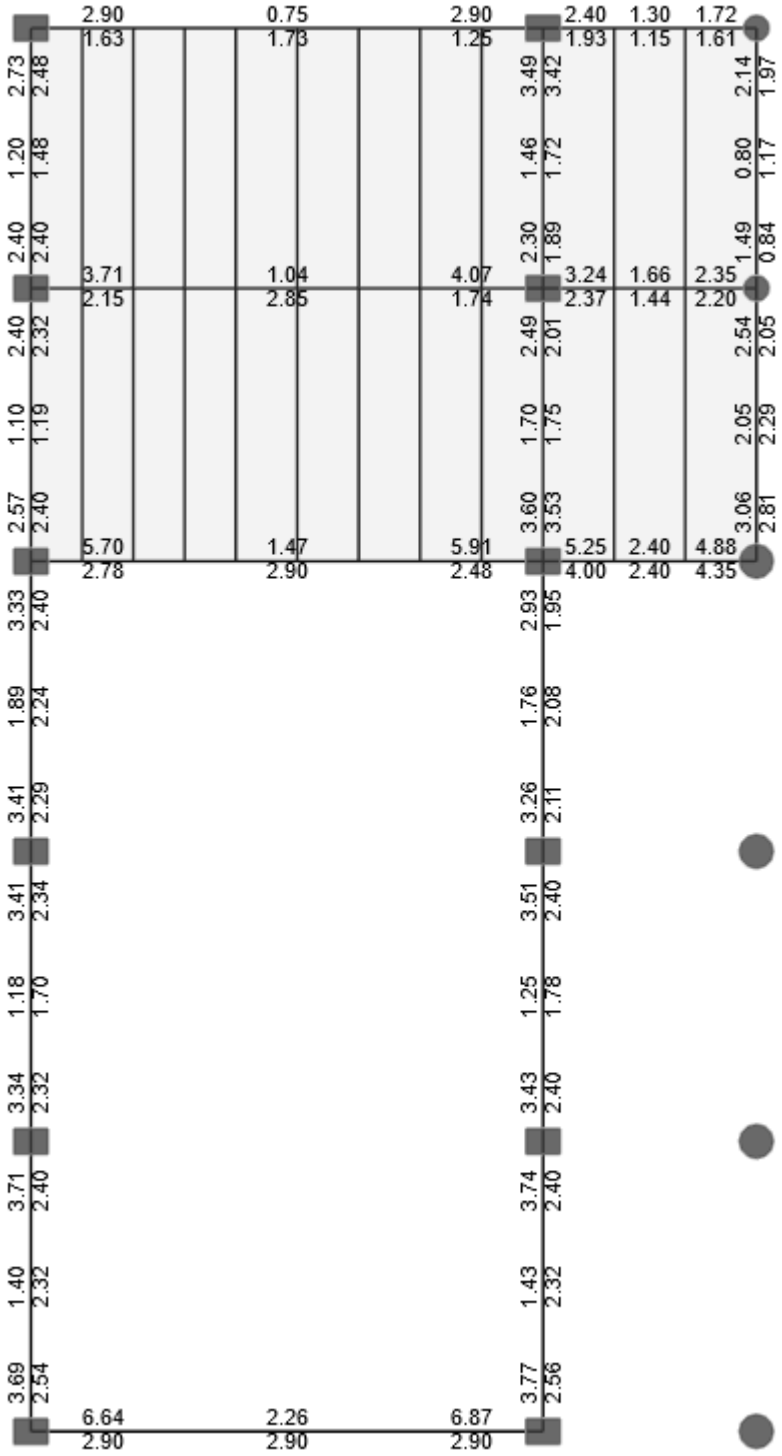
REFUERZO LONGITUDINAL (SUPERIOR E INFERIOR), cm²
CUBIERTA – PREESCOLAR



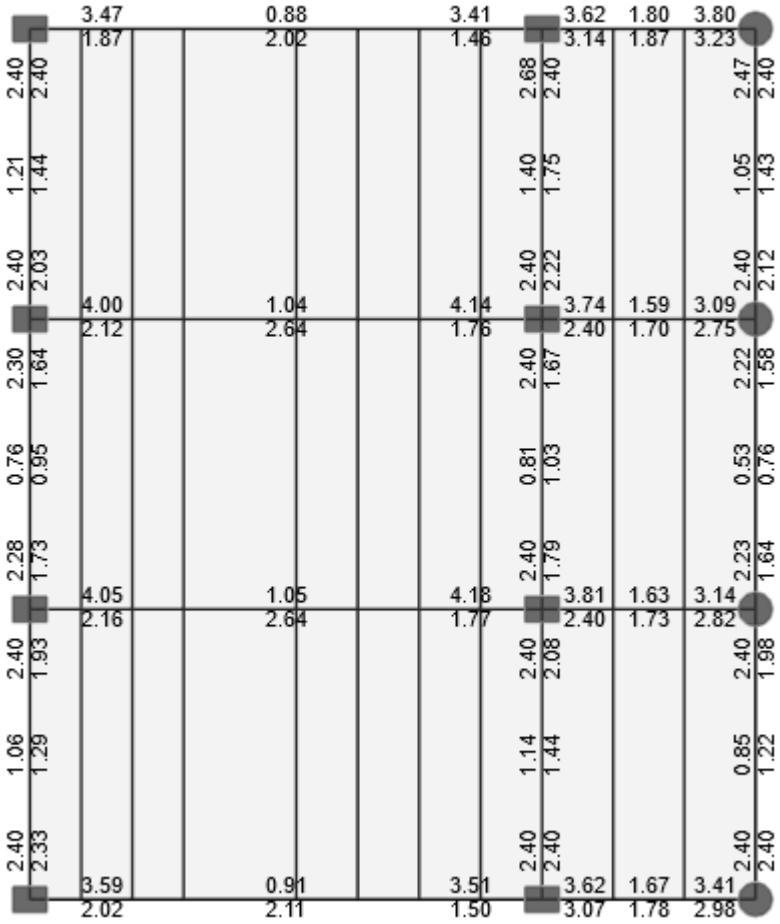
REFUERZO LONGITUDINAL (SUPERIOR E INFERIOR), cm²
CUBIERTA – SECUNDARIA



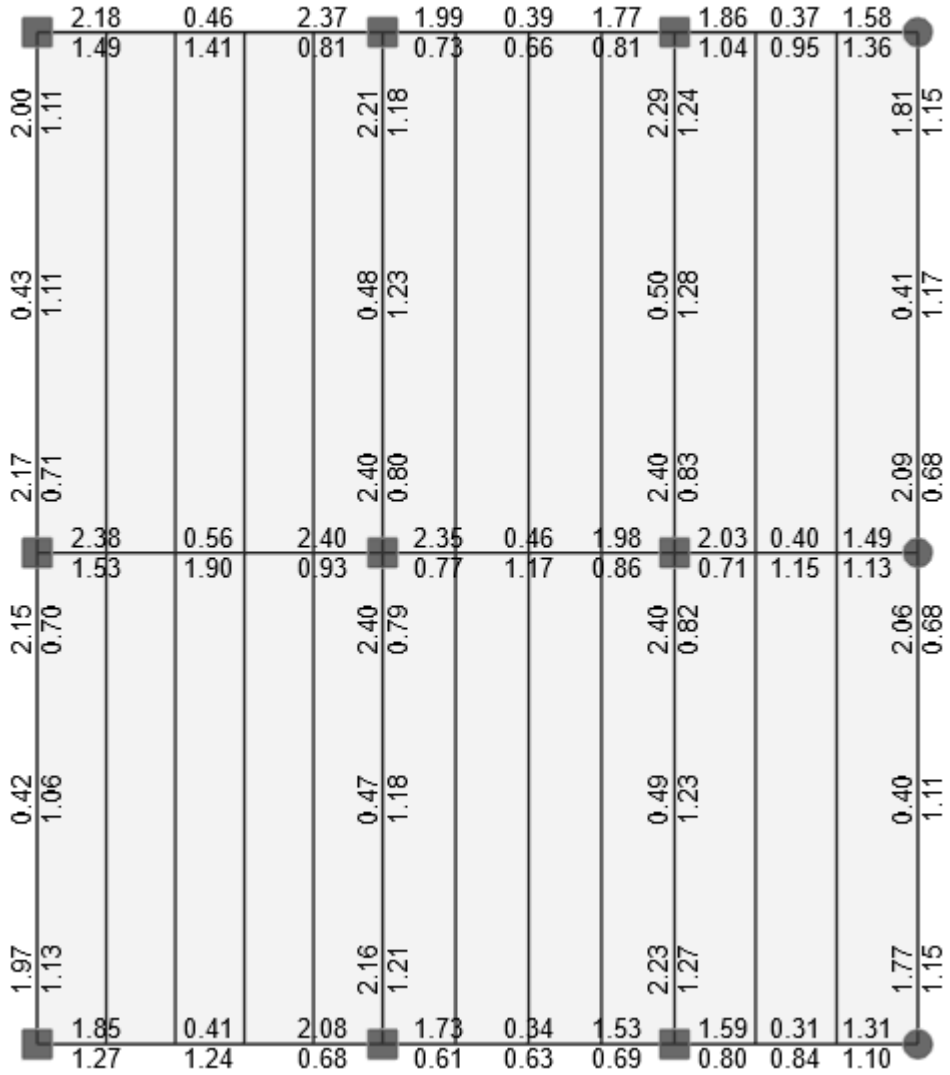
REFUERZO LONGITUDINAL (SUPERIOR E INFERIOR), cm²
CUBIERTA – MULTIPROPÓSITO



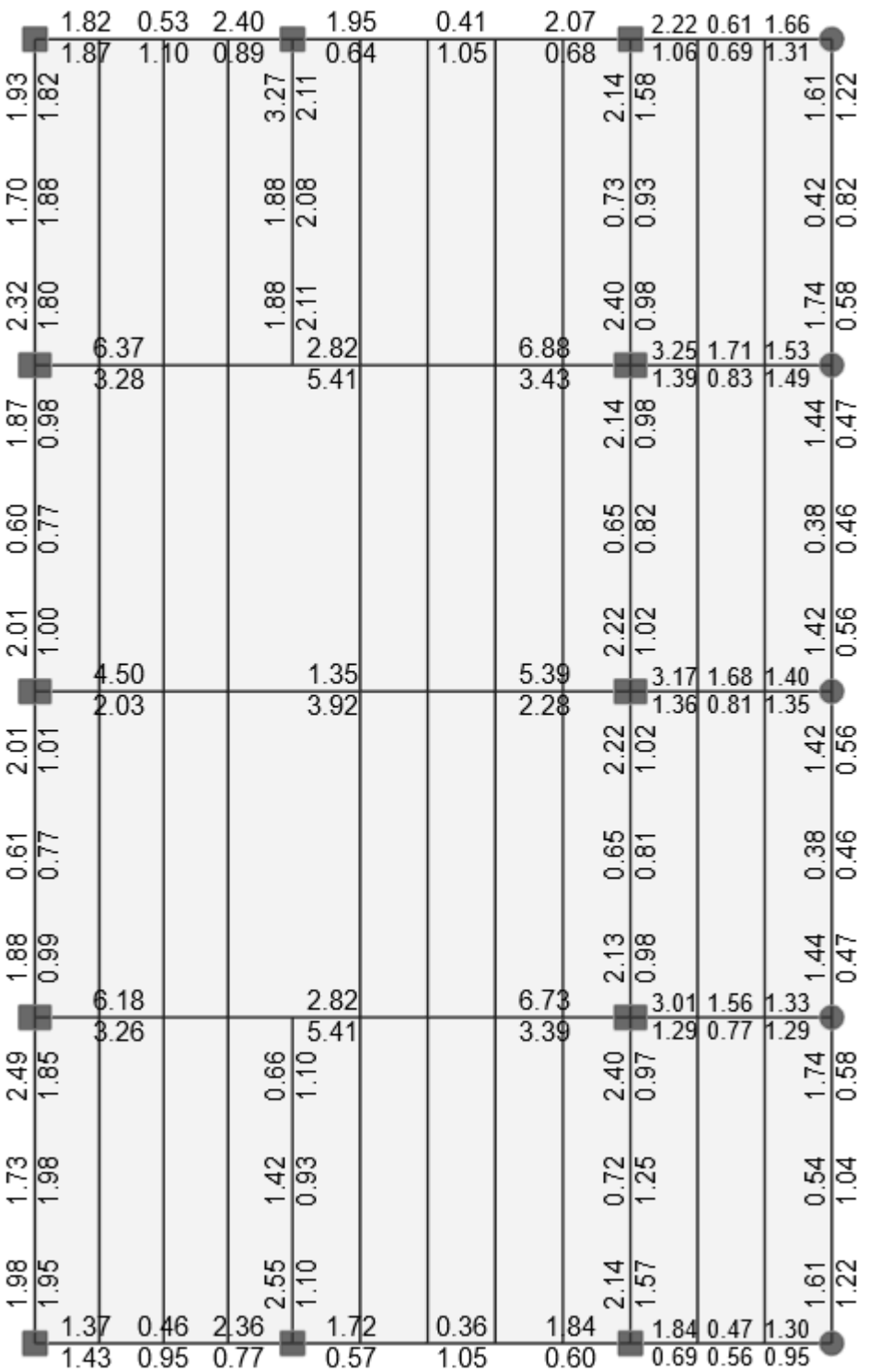
REFUERZO LONGITUDINAL (SUPERIOR E INFERIOR), cm²
CUBIERTA1 – RESTAURANTE



REFUERZO LONGITUDINAL (SUPERIOR E INFERIOR), cm²
CUBIERTA2 – RESTAURANTE



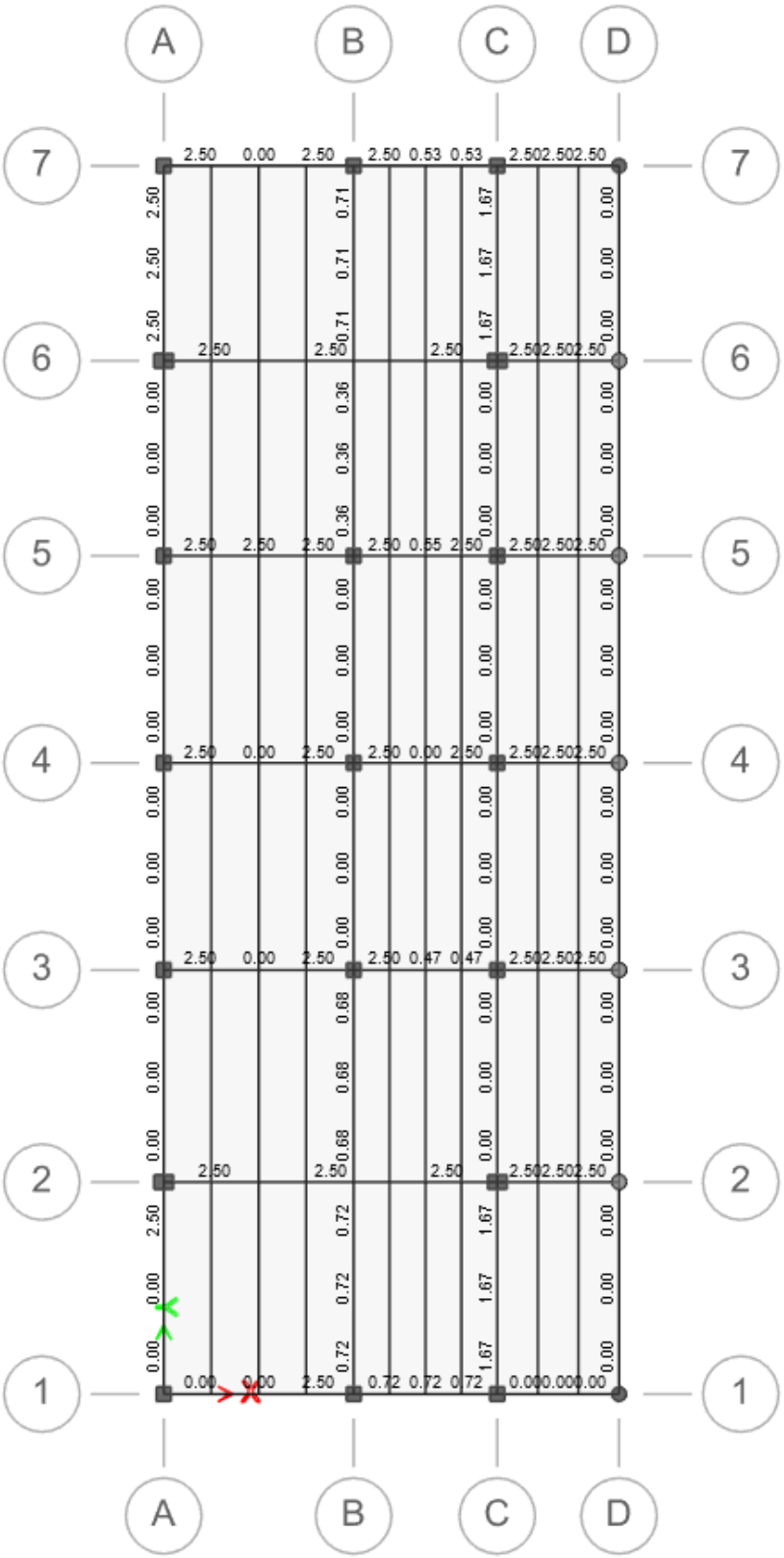
REFUERZO LONGITUDINAL (SUPERIOR E INFERIOR), cm²
CUBIERTA – ADMINISTRACIÓN



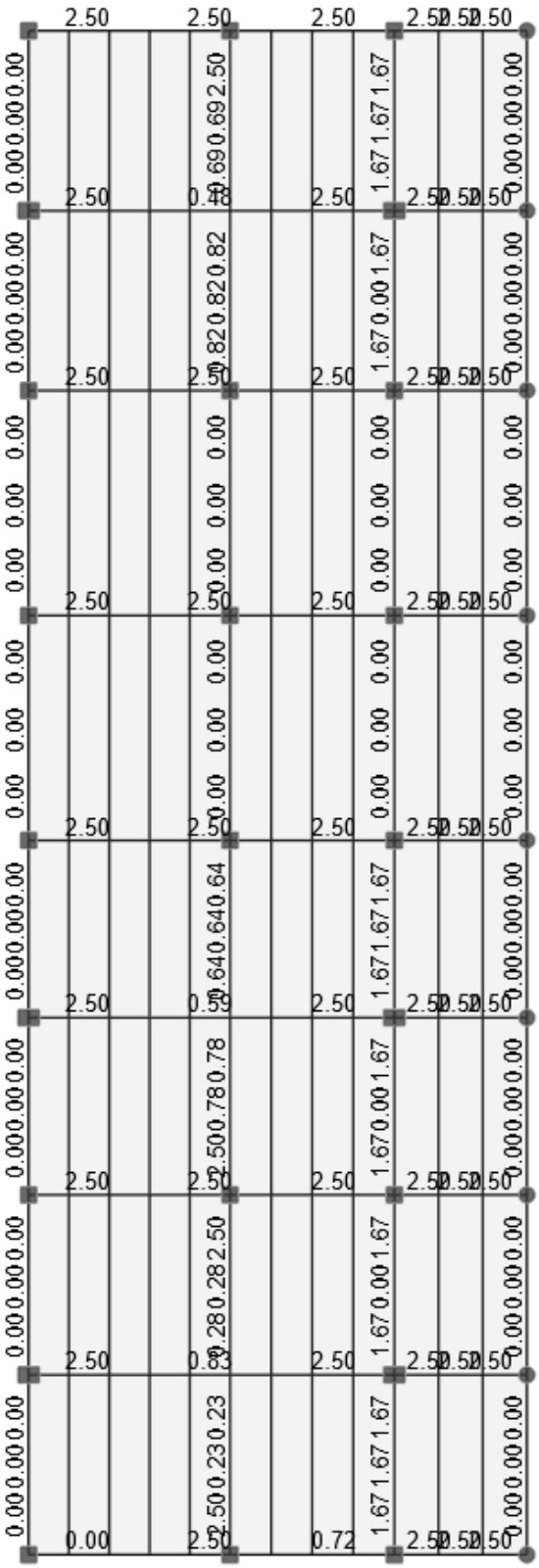
REFUERZO LONGITUDINAL (SUPERIOR E INFERIOR), cm²
CUBIERTA – BIBLIOTECA

9.2. CORTANTE VIGAS

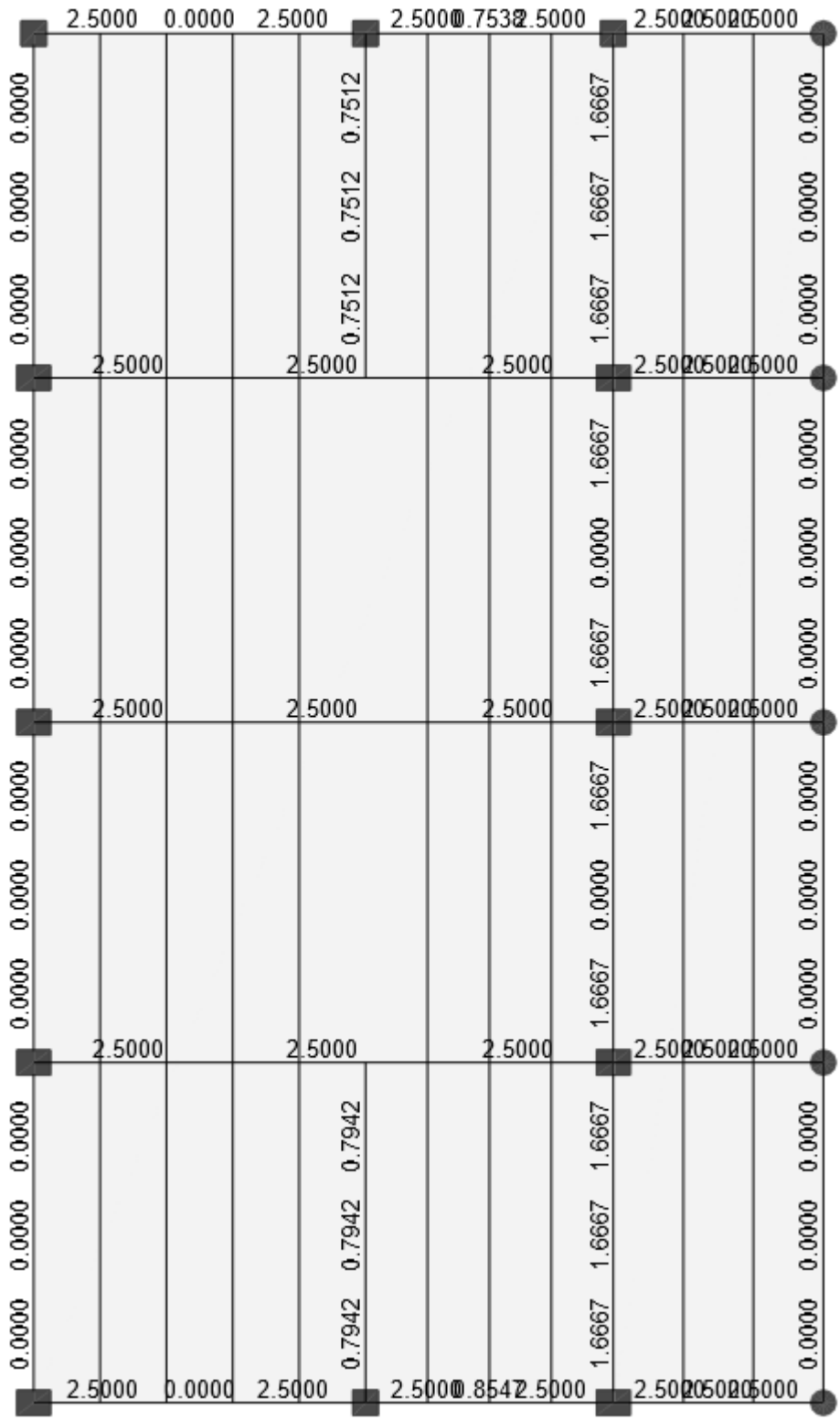
COMBO	COMBO TYPE	CASE	CASE TYPE	SCALE FACTOR
CORT COL	ENVE	DIS1	Combo	1.0
		DIS2	Combo	1.0
		DIS3	Combo	1.0
		DIS4	Combo	1.0
		DIS5	Combo	1.0
		DIS6	Combo	1.0
		DIS7	Combo	1.0
		DIS8	Combo	1.0
		DIS9	Combo	1.0
		DIS10	Combo	1.0
		DIS11	Combo	1.0
		DIS12	Combo	1.0
		DIS13	Combo	1.0
		DIS14	Combo	1.0
		DIS15	Combo	1.0
		DIS16	Combo	1.0
		DIS17	Combo	1.0
		DIS18	Combo	1.0
		DIS19	Combo	1.0
		DIS20	Combo	1.0
		DIS21	Combo	1.0
		DIS22	Combo	1.0
		CV1	Combo	1.0
		CV2	Combo	1.0
		CV3	Combo	1.0
		CV4	Combo	1.0
		CV5	Combo	1.0
		CV6	Combo	1.0
		CV7	Combo	1.0
		CV8	Combo	1.0
		CV9	Combo	1.0
		CV10	Combo	1.0
		CV11	Combo	1.0
		CV12	Combo	1.0
		CV13	Combo	1.0
		CV14	Combo	1.0
		CV15	Combo	1.0
		CV16	Combo	1.0
		CV17	Combo	1.0
		CV18	Combo	1.0
		CV19	Combo	1.0
		CV20	Combo	1.0
		CV21	Combo	1.0
		CV22	Combo	1.0



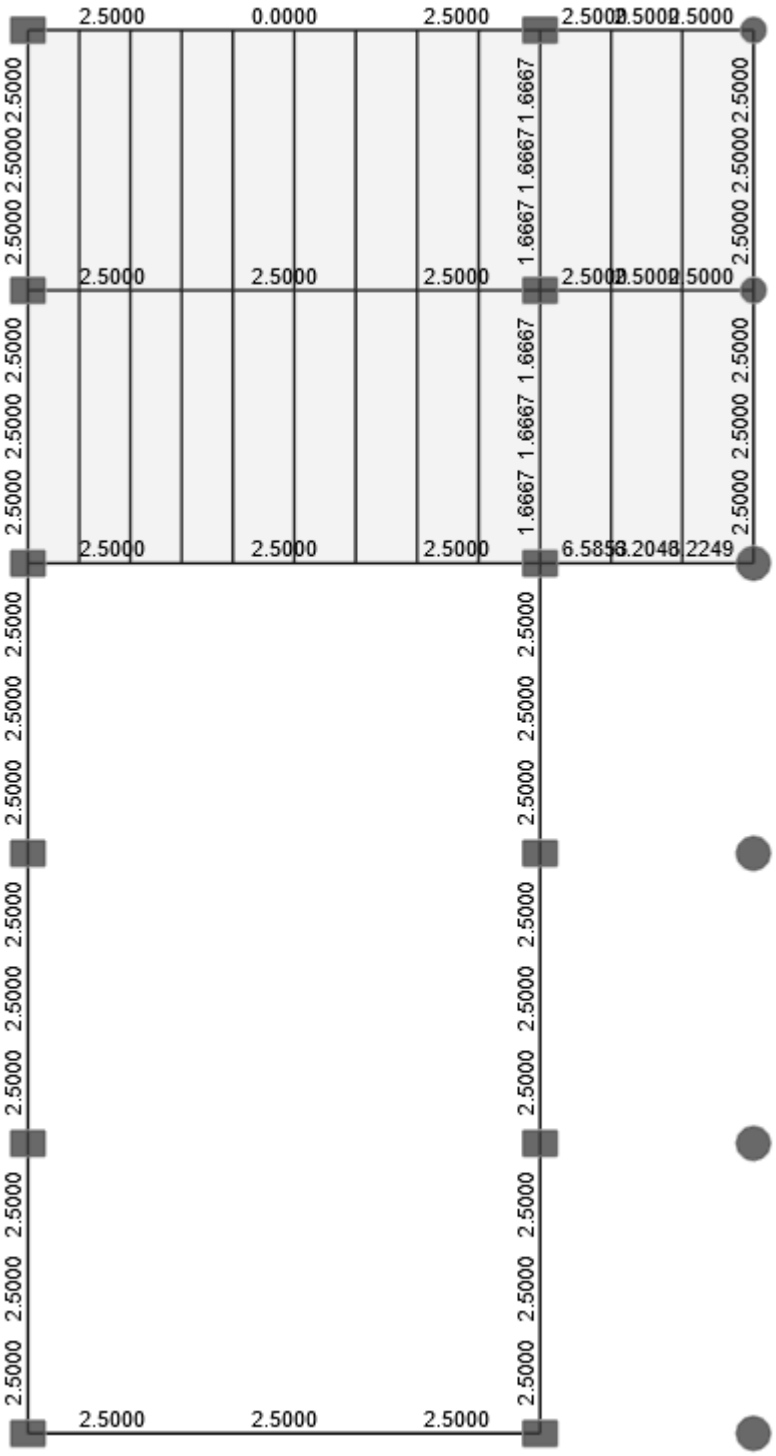
REFUERZO TRANSVERSAL, cm²/m
CUBIERTA – PREESCOLAR



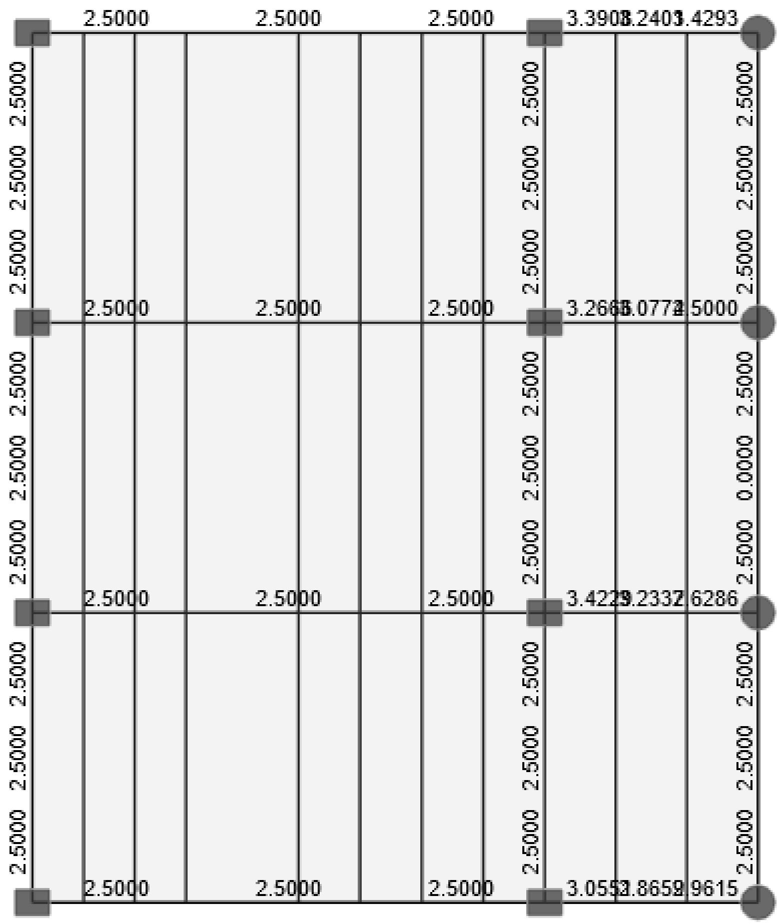
REFUERZO TRANSVERSAL, cm²/m
CUBIERTA – SECUNDARIA



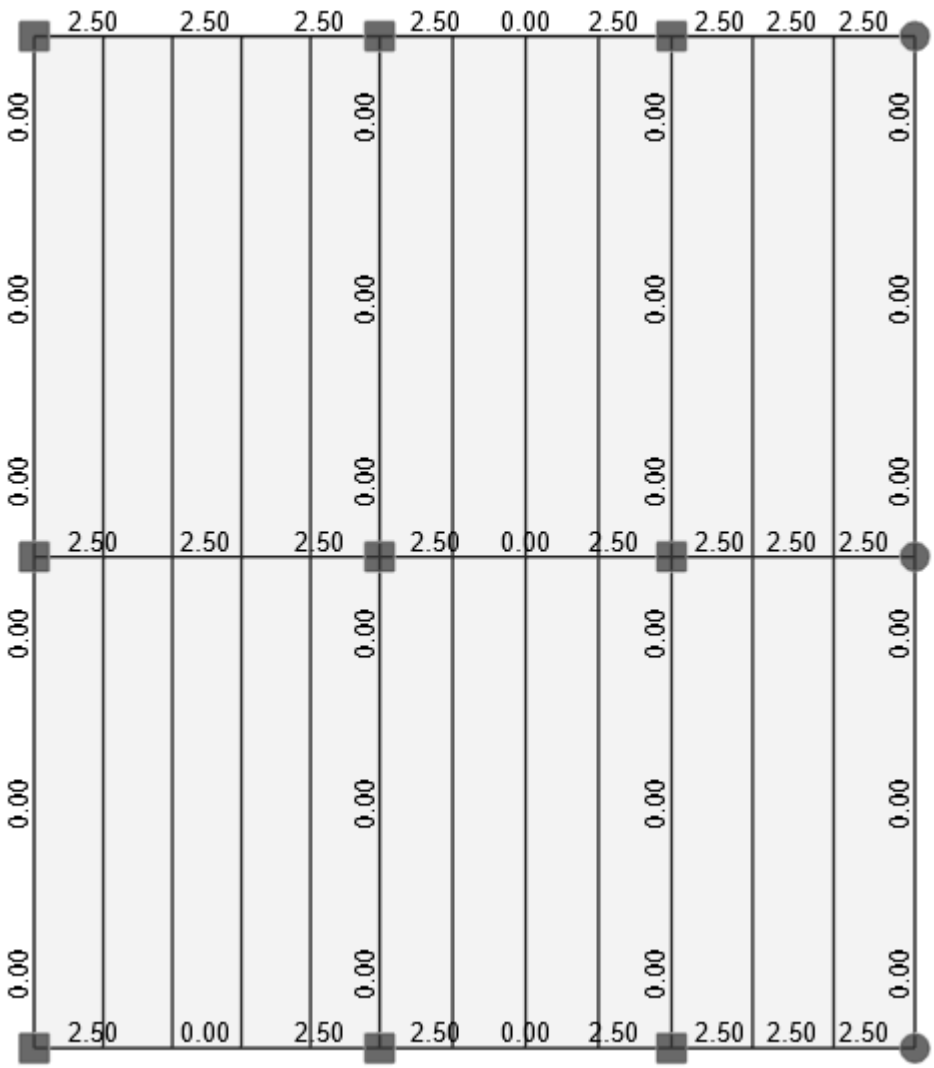
REFUERZO TRANSVERSAL, cm²/m
CUBIERTA - MULTIPROPÓSITO



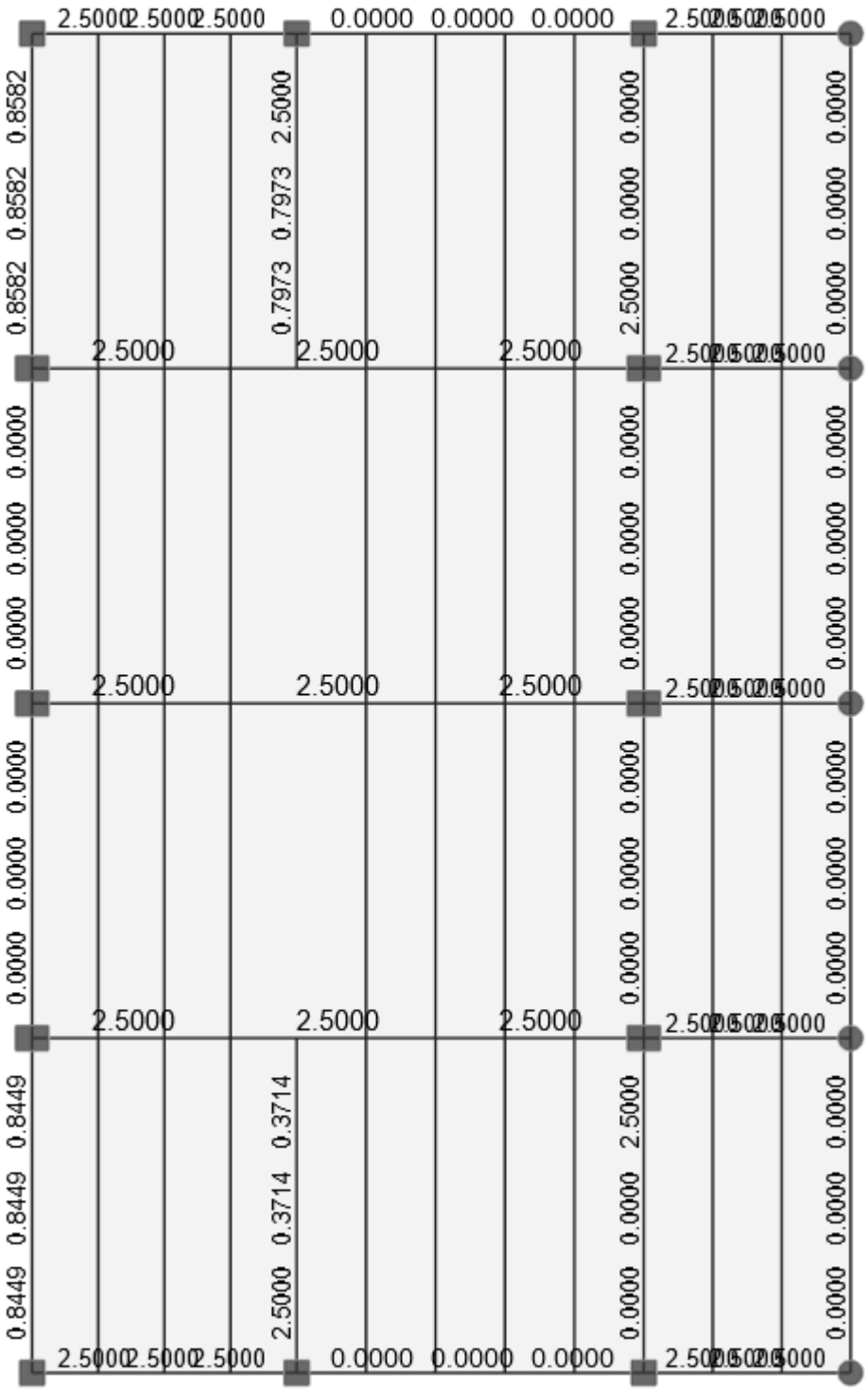
REFUERZO TRANSVERSAL, cm²/m
CUBIERTA1 – RESTAURANTE.



REFUERZO TRANSVERSAL, cm²/m
CUBIERTA2 – RESTAURANTE.



REFUERZO TRANSVERSAL, cm²/m
CUBIERTA – ADMINISTRACIÓN



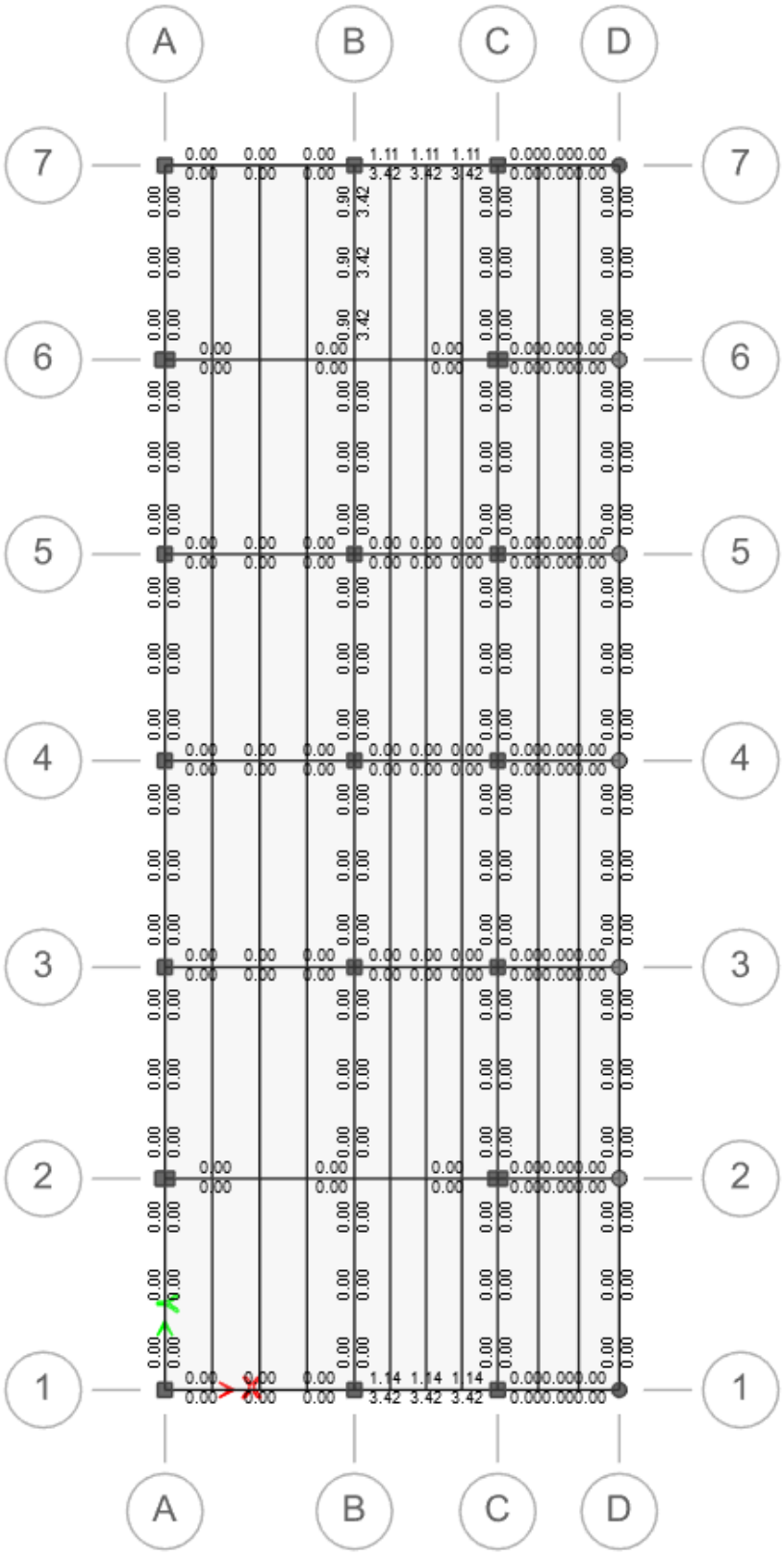
REFUERZO TRANSVERSAL, cm²/m
CUBIERTA – BIBLIOTECA

.

9.3. TORSIÓN VIGAS

L O A D I N G C O M B I N A T I O N S

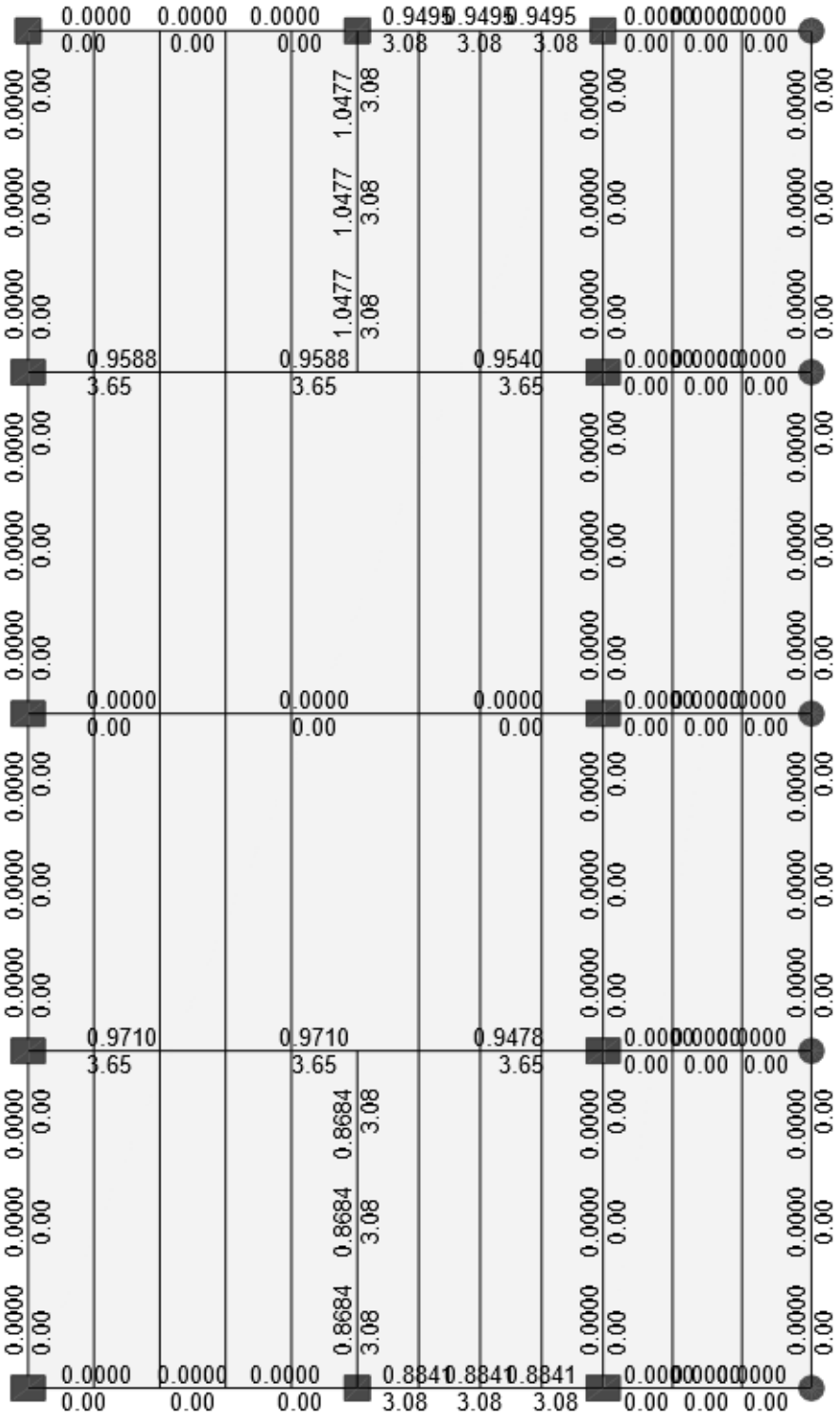
COMBO	COMBO TYPE	CASE	CASE TYPE	SCALE FACTOR
ENVDIS	ENVE	DIS1	Combo	1.0000
		DIS2	Combo	1.0000
		DIS3	Combo	1.0000
		DIS4	Combo	1.0000
		DIS5	Combo	1.0000
		DIS6	Combo	1.0000
		DIS7	Combo	1.0000
		DIS8	Combo	1.0000
		DIS9	Combo	1.0000
		DIS10	Combo	1.0000
		DIS11	Combo	1.0000
		DIS12	Combo	1.0000
		DIS13	Combo	1.0000
		DIS14	Combo	1.0000
		DIS15	Combo	1.0000
		DIS16	Combo	1.0000
		DIS17	Combo	1.0000
		DIS18	Combo	1.0000
		DIS19	Combo	1.0000
		DIS20	Combo	1.0000
		DIS21	Combo	1.0000
		DIS22	Combo	1.0000



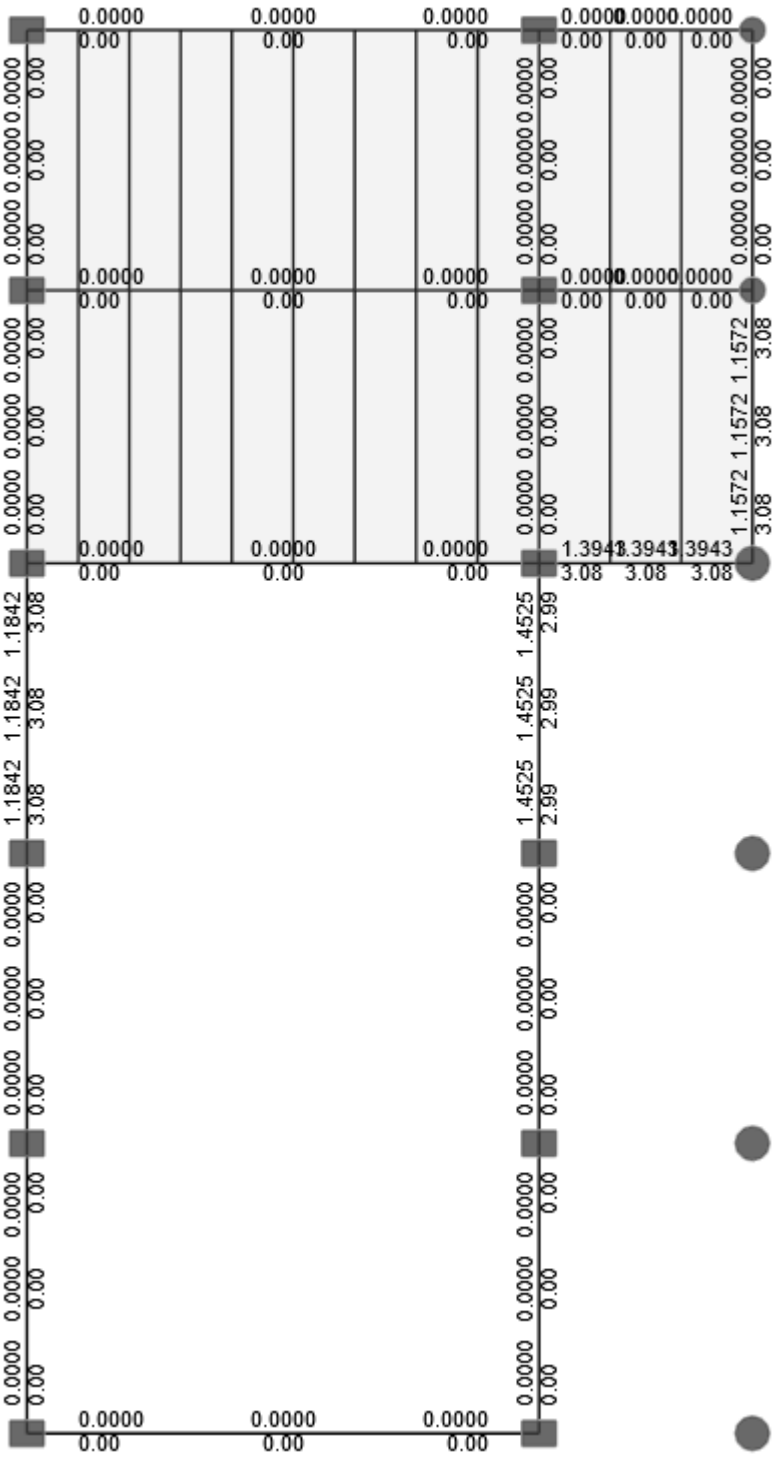
REFUERZO TORSION, cm²
CUBIERTA – PREESCOLAR



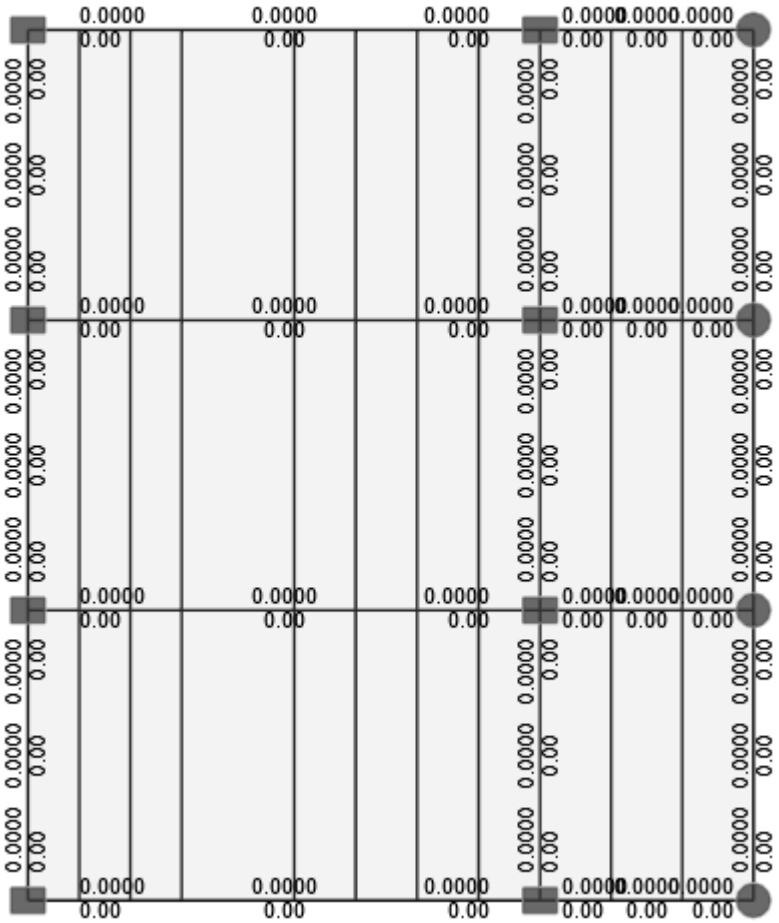
REFUERZO TORSION, cm²
CUBIERTA – SECUNDARIA



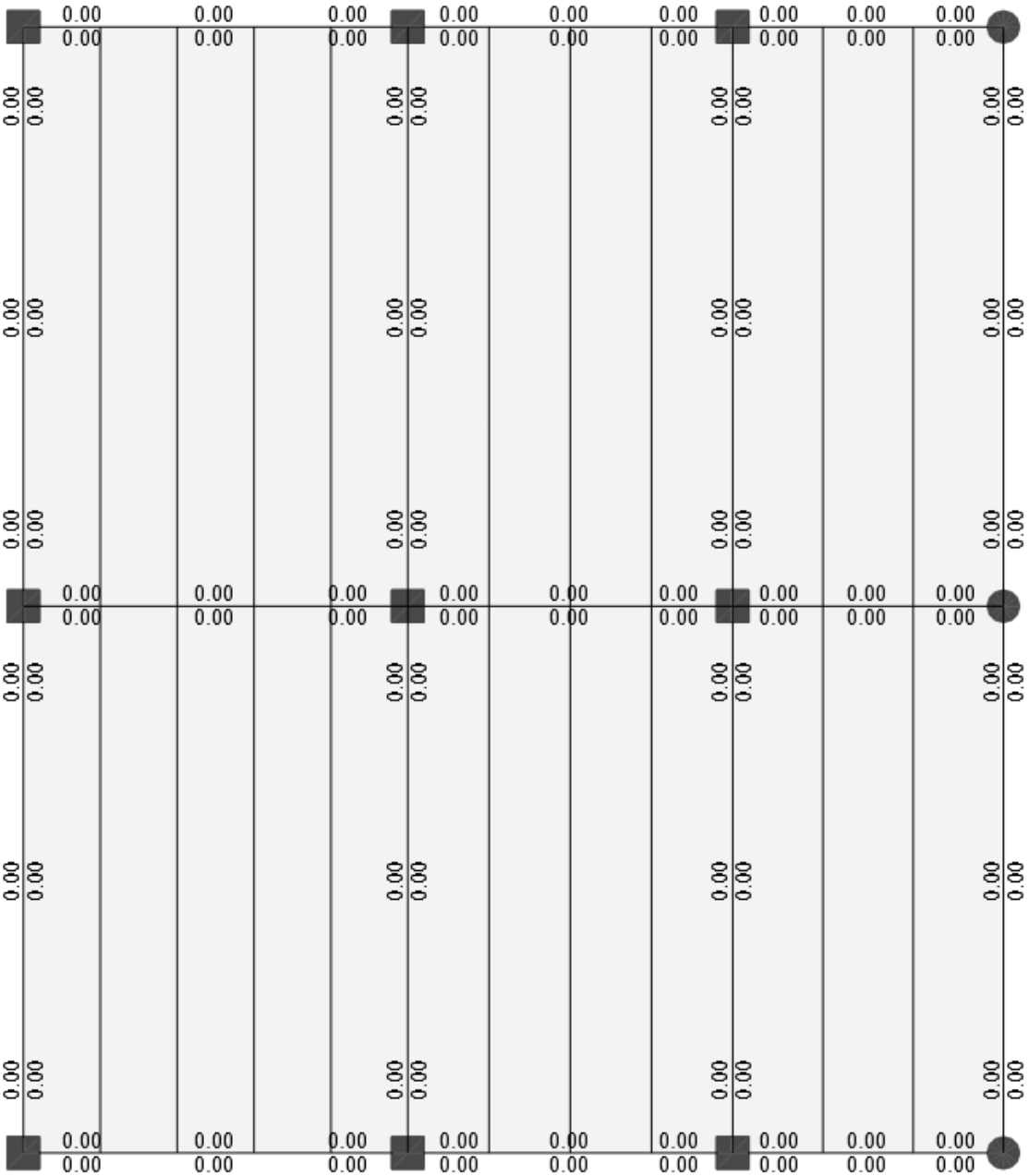
REFUERZO TORSION, cm²
CUBIERTA – MULTIPROPÓSITO



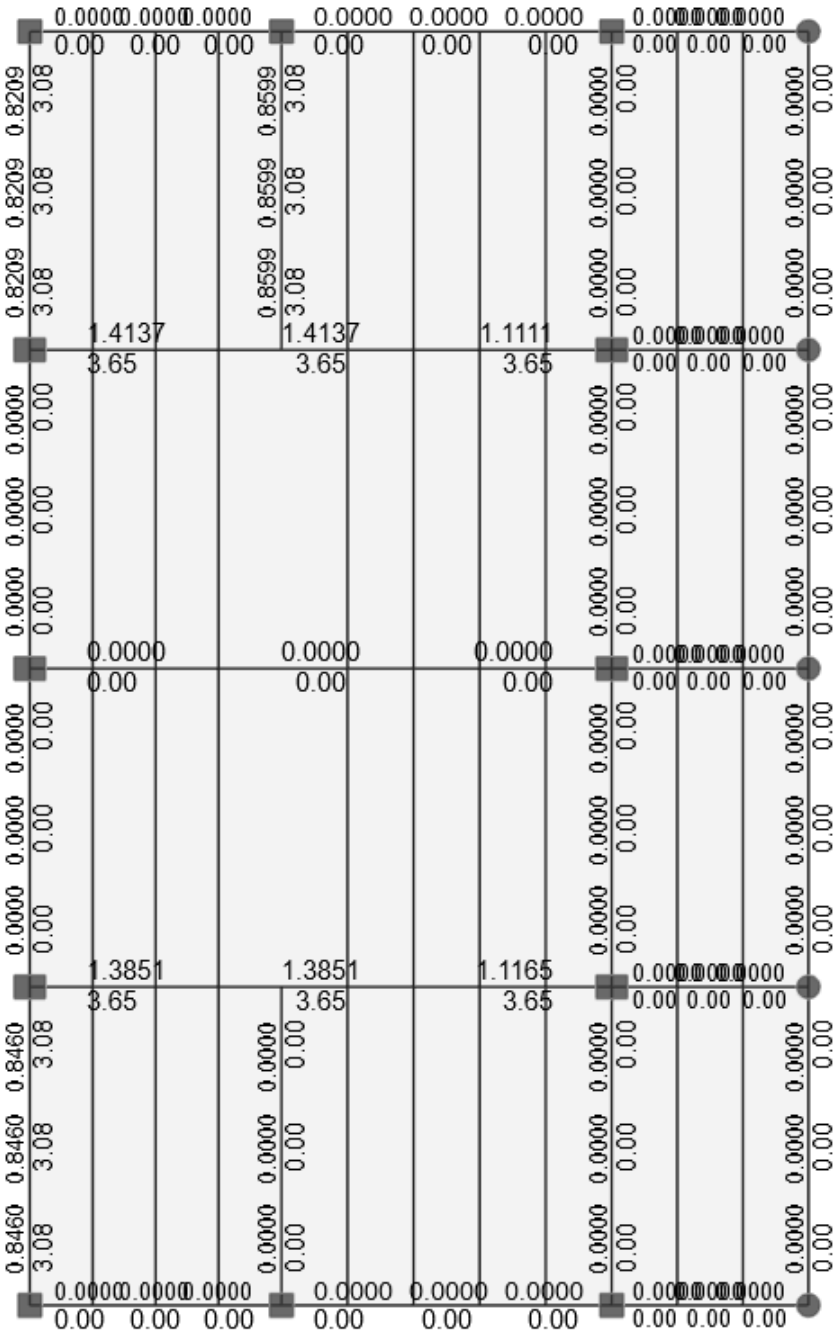
REFUERZO TORSION, cm²
CUBIERTA1 – RESTAURANTE



REFUERZO TORSION, cm²
CUBIERTA2 – RESTAURANTE

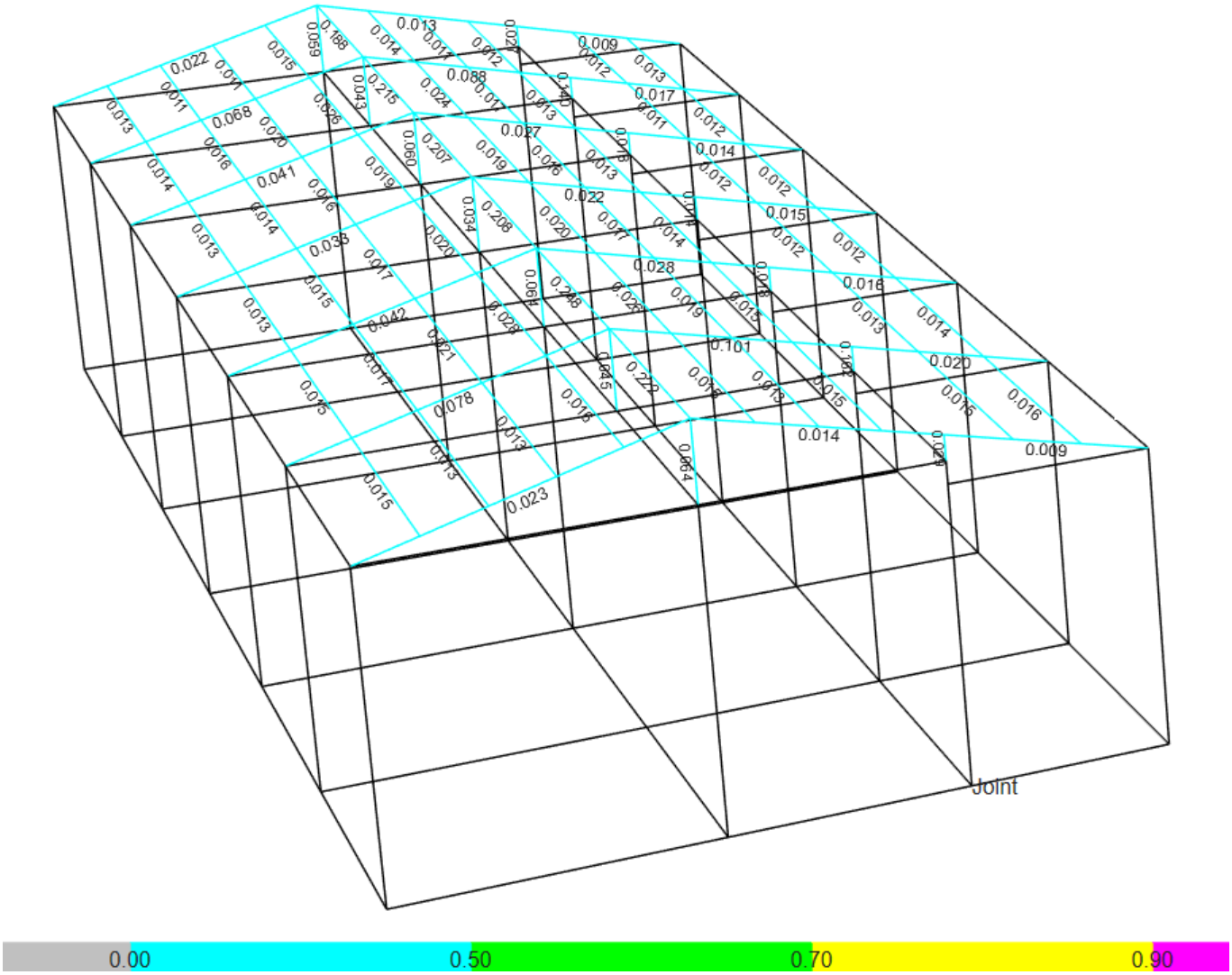


REFUERZO TORSION, cm²
CUBIERTA – ADMINISTRACIÓN

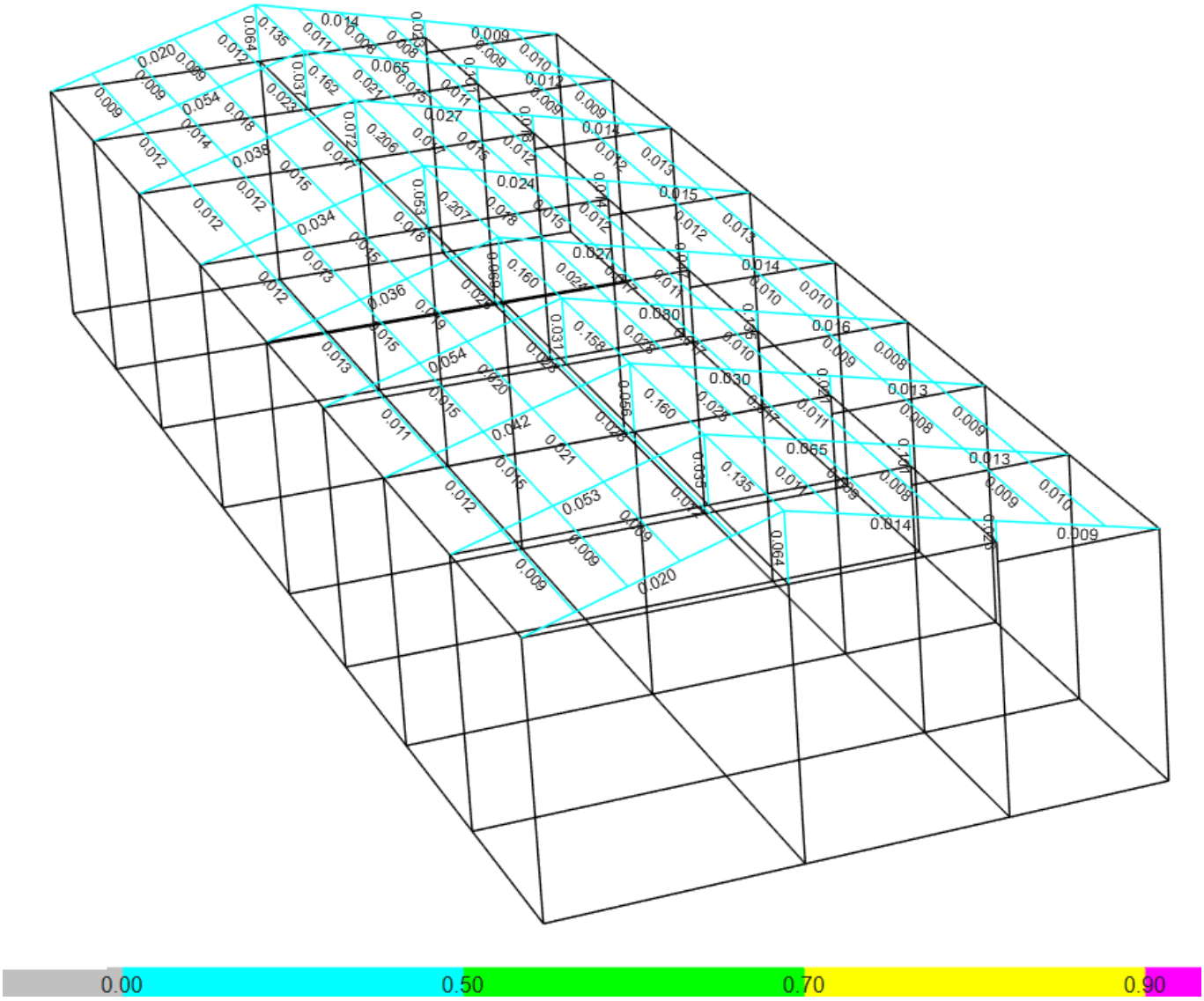


REFUERZO TORSION, cm²
CUBIERTA – BIBLIOTECA

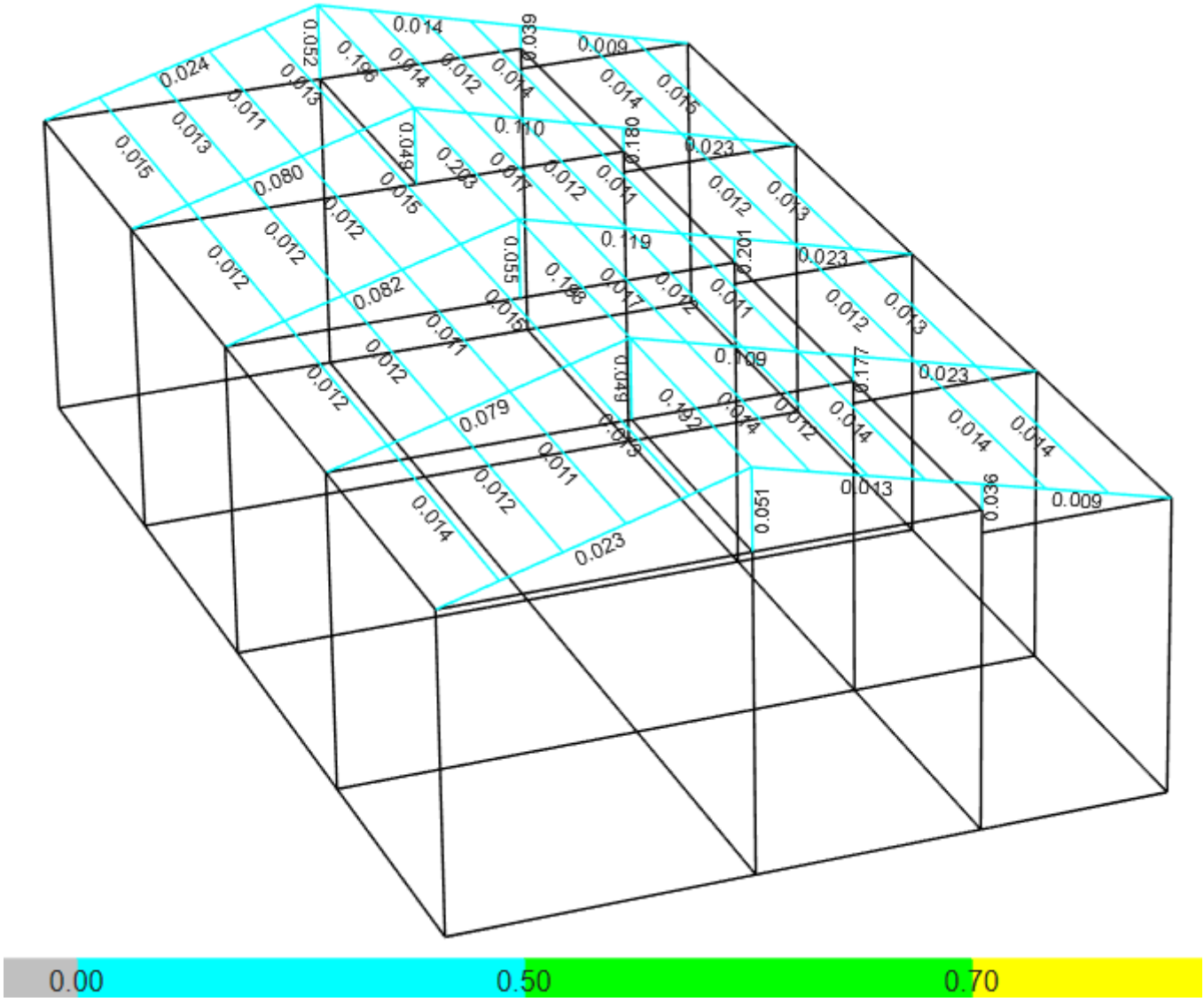
10. DISEÑO ELEMENTOS METÁLICOS



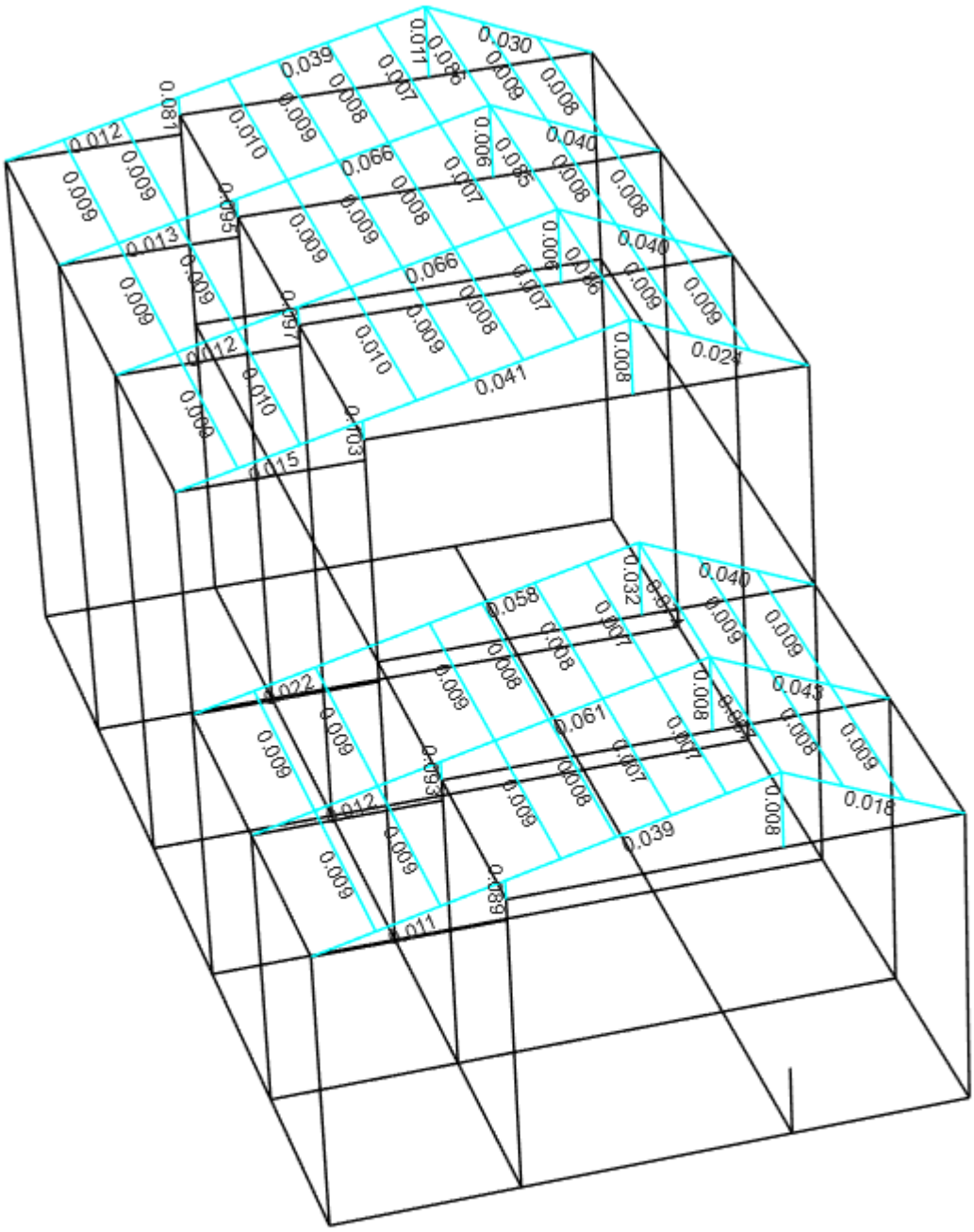
ÍNDICES DE ESFUERZOS < 1.0 ➔ OK – PREESCOLAR



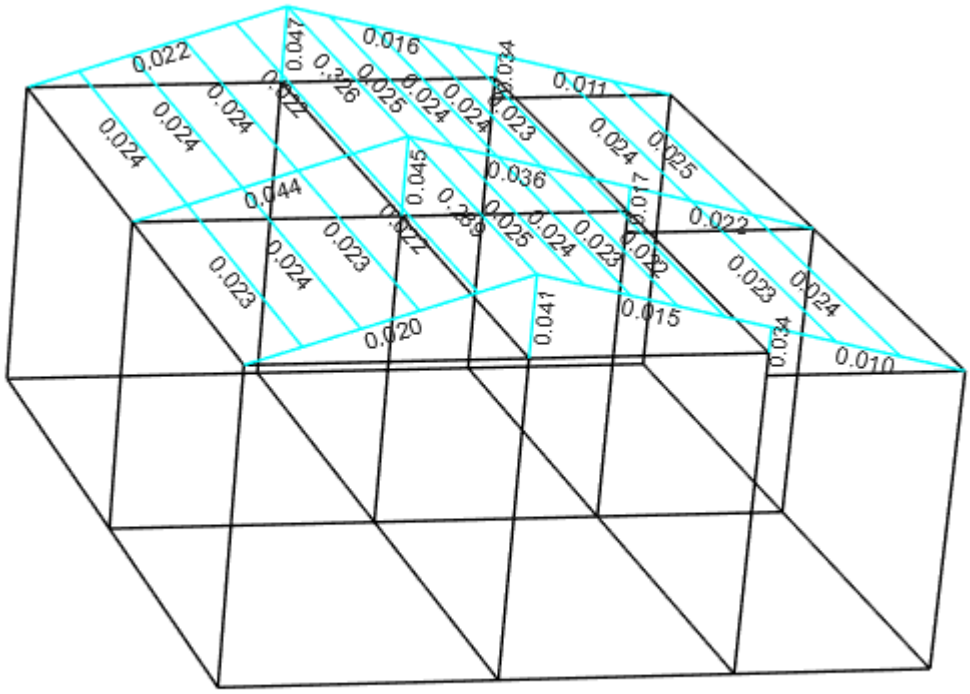
ÍNDICES DE ESFUERZOS < 1.0 ➔ OK – SECUNDARIA



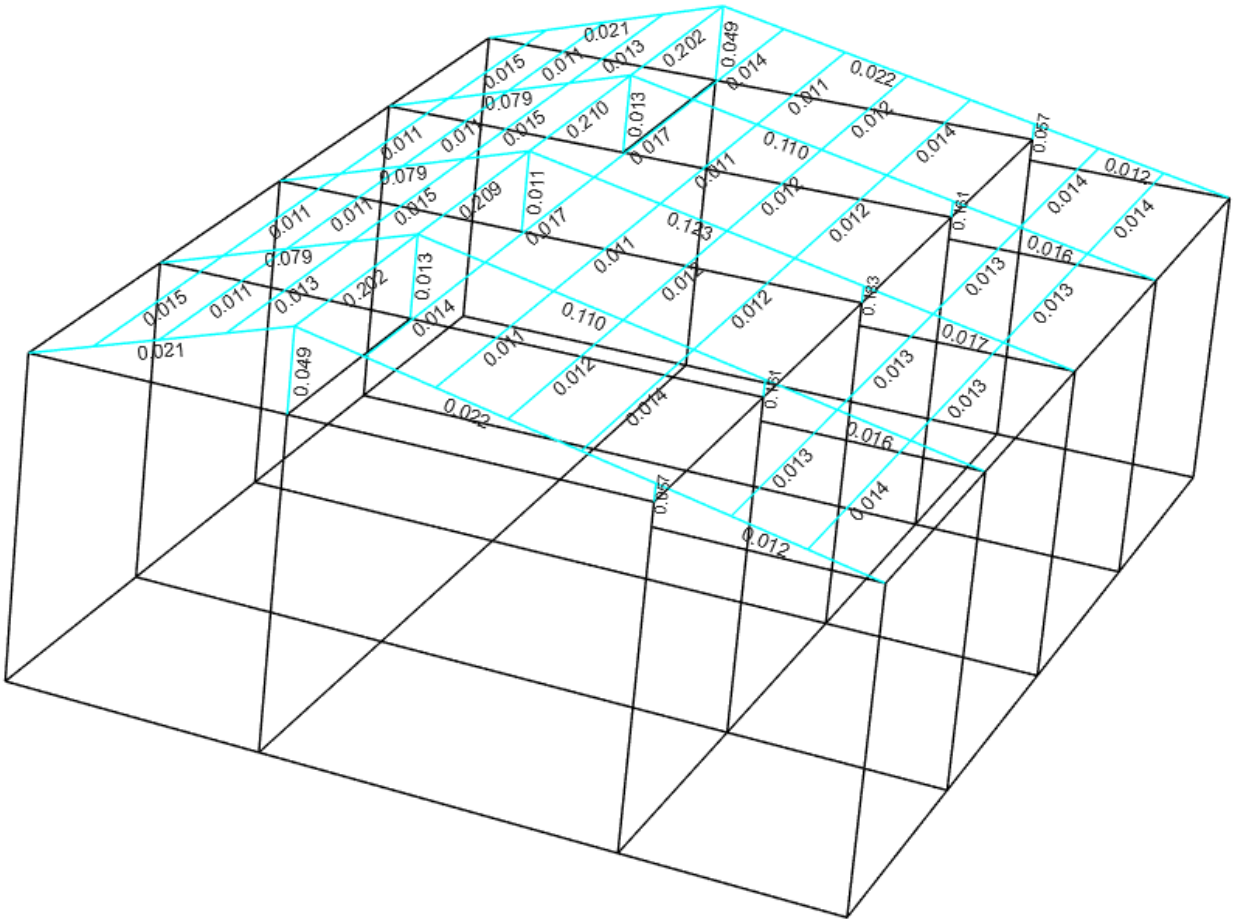
ÍNDICES DE ESFUERZOS < 1.0 ➔ OK – MULTIPROPÓSITO



ÍNDICES DE ESFUERZOS < 1.0 ➔ OK – RESTAURANTE



ÍNDICES DE ESFUERZOS < 1.0 ➔ OK – ADMINISTRACIÓN



ÍNDICES DE ESFUERZOS < 1.0 ➔ OK – BILBIOTECA

11. DISEÑO ELEMENTOS NO ESTRUCTURALES

V° B° Constructor:

Firma:

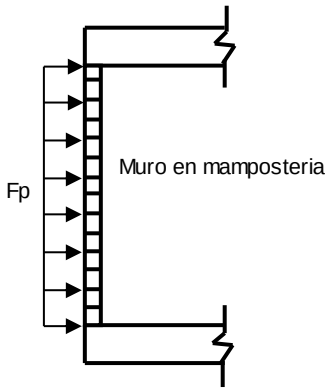
Nombre:

M.P:

DISEÑO MUROS INTERIORES/FACHADAS

ESTRUCTURAS I.E.D LUIS A. VALBUENA - RURAL
VEREDA NAGUY, LA VEGA (CUND)

Grado de desempeño:	**Superior**	
Coeficiente de Importancia:	**1.25**	
Espesor del muro:	**0.12 m**	
Altura del muro	**2.60 m**	
Peso específico Mampostería:	**1.50 ton/m³**	
Fuerza Horizontal Piso Fi:	**68.91 ton**	
Peso del Piso Wi:	**70.31 ton-s²/m**	
Aceleracion pico efectiva Aa:	**0.15**	
Aceleracion Horizontal ax:	**0.98**	
Coef. Amplificación dinámica Ap:	**1.0**	
Coef de disipación de Energia Rp:	**1.5**	
Peso del Muro:	0.47 ton/m	
Fuerza de diseño mínima:	0.044 ton/m	
Fuerza de diseño:	0.306 ton/m	
Fuerza de diseño elegida:	0.306 ton/m	
Momento diseño:	0.258 ton-m/m	
Aferencia para Ref. columnetas:	**1.00 m**	
Aferencia para Ref. Transversal:	**1.00 m**	
Momento diseño total:	0.258 ton-m	
Resistencia mampostería:	**140 kg/cm²**	
Acero de refuerzo	**4200 kg/cm²**	
ancho dovela	**0.12 m**	
altura dovela	**0.12 m**	
recubrimiento:	**0.025 m**	
d:	**0.095 m**	
Cuantía refuerzo:	0.00760	
Acero de Refuerzo:	0.87 cm²	**1 ϕ 1/2" c/ 100 cm**
Cortante diseño :	0.153 ton/m	
Cortante diseño total:	0.153 ton 0.12 cm²	**2 ϕ 4mm c/ 100 cm**
vu:	1.34 kg/cm²	
ϕvm:	5.30 kg/cm²	ok

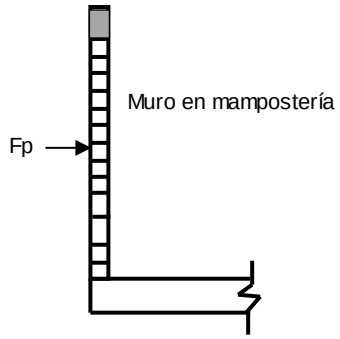


DISEÑO DE ANTEPECHOS HASTA H=1.30m

ESTRUCTURAS I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

Grado de desempeño:	**Superior**
Coeficiente de Importancia:	**1.25**
Espesor del muro:	**0.12 m**
Altura del muro	**1.30 m**
Peso específico mampostería:	**1.50 ton/m³**
Fuerza Horizontal Piso Fi:	**68.91 ton**
Peso del Piso Wi:	**70.31 ton-s²/m**
Aceleracion pico efectiva Aa:	**0.15**
Aceleracion Horizontal ax:	**0.98**
Coef. Amplificación dinámica Ap:	**2.5**
Coef de disipación de Energía Rp:	**1.5**
Peso del Muro:	0.23 ton/m
Fuerza de diseño mínima:	0.022 ton/m
Fuerza de diseño:	0.382 ton/m
Fuerza de diseño elegida:	0.382 ton/m
Momento diseño:	0.323 ton-m/m
Aferencia para Ref. columnetas:	**1.00 m**
Aferencia para Ref. Transversal:	**1.00 m**
Momento diseño total:	0.323 ton-m
Resistencia mampostería:	**140 kg/cm²**
Acero de refuerzo	**4200 kg/cm²**
ancho dovela	**0.12 m**
altura dovela	**0.12 m**
recubrimiento:	**0.020 m**
d:	**0.100 m**
Cuantía refuerzo:	0.00836
Acero de Refuerzo:	1.00 cm² **1 ϕ 1/2" c/ 100 cm**
Cortante diseño :	0.191 ton/m
Cortante diseño total:	0.19 ton **2 ϕ 4mm c/ 100 cm**
	0.15 cm²
vu:	1.59 kg/cm²
ϕvm:	5.30 kg/cm² ok



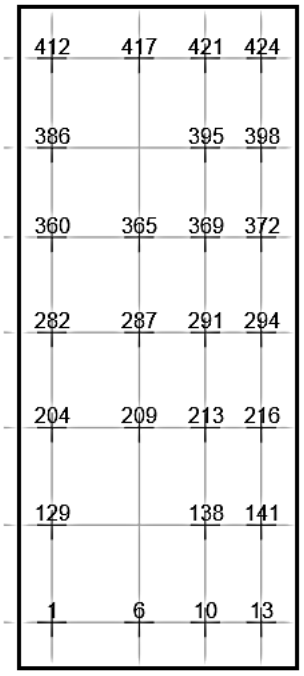
12. DISEÑO CIMENTACIÓN

12.1). CARGAS EN CIMENTACIÓN

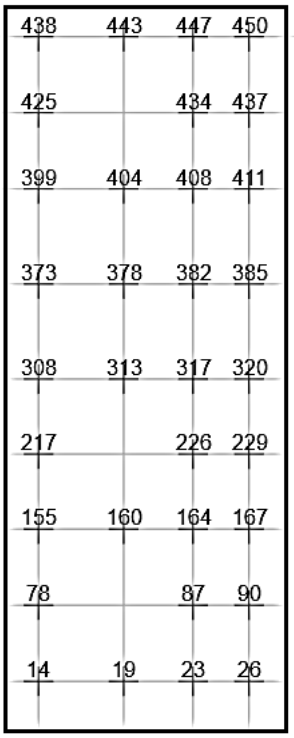
Story	Label	Output Case	FX ton	FY ton	FZ ton
Base	1	1.0CM+1.0CV	0.24	0.17	3.33
Base	6	1.0CM+1.0CV	-0.17	0.55	5.13
Base	10	1.0CM+1.0CV	-0.07	0.16	3.95
Base	13	1.0CM+1.0CV	-0.09	0.11	2.74
Base	14	1.0CM+1.0CV	0.19	0.11	3.23
Base	19	1.0CM+1.0CV	-0.13	0.49	4.95
Base	23	1.0CM+1.0CV	-0.07	0.10	3.65
Base	26	1.0CM+1.0CV	-0.07	0.06	2.54
Base	27	1.0CM+1.0CV	0.28	0.15	3.55
Base	32	1.0CM+1.0CV	-0.17	0.49	4.85
Base	36	1.0CM+1.0CV	-0.13	0.15	4.17
Base	39	1.0CM+1.0CV	-0.09	0.09	2.70
Base	40	1.0CM+1.0CV	0.56	0.18	9.23
Base	48	1.0CM+1.0CV	-0.56	0.17	10.27
Base	51	1.0CM+1.0CV	-0.06	0.03	4.14
Base	52	1.0CM+1.0CV	0.21	0.19	3.44
Base	57	1.0CM+1.0CV	-0.10	0.23	4.72
Base	61	1.0CM+1.0CV	-0.04	0.24	4.23
Base	64	1.0CM+1.0CV	-0.08	0.16	2.85
Base	65	1.0CM+1.0CV	0.09	0.15	2.85
Base	69	1.0CM+1.0CV	0.00	0.61	5.24
Base	74	1.0CM+1.0CV	-0.22	0.17	4.27
Base	77	1.0CM+1.0CV	-0.09	0.10	2.61
Base	78	1.0CM+1.0CV	1.04	-0.02	5.53
Base	87	1.0CM+1.0CV	-0.87	-0.02	7.22
Base	90	1.0CM+1.0CV	-0.07	-0.01	3.19
Base	91	1.0CM+1.0CV	0.37	-0.02	9.47
Base	99	1.0CM+1.0CV	-0.27	-0.02	11.10
Base	102	1.0CM+1.0CV	-0.04	-0.01	4.51
Base	103	1.0CM+1.0CV	1.47	0.02	6.44
Base	112	1.0CM+1.0CV	-1.34	0.00	8.63
Base	115	1.0CM+1.0CV	-0.07	-0.01	3.39
Base	116	1.0CM+1.0CV	1.66	0.05	6.72
Base	125	1.0CM+1.0CV	-1.45	0.03	8.55
Base	128	1.0CM+1.0CV	-0.07	-0.01	3.29
Base	129	1.0CM+1.0CV	1.50	-0.03	6.65
Base	138	1.0CM+1.0CV	-1.30	-0.03	8.99
Base	141	1.0CM+1.0CV	-0.07	-0.02	3.51
Base	142	1.0CM+1.0CV	0.35	0.03	5.27
Base	147	1.0CM+1.0CV	-0.15	0.03	7.33
Base	151	1.0CM+1.0CV	-0.05	0.03	6.47
Base	154	1.0CM+1.0CV	-0.12	0.02	4.23
Base	155	1.0CM+1.0CV	0.31	0.00	4.12
Base	160	1.0CM+1.0CV	-0.18	-0.01	7.61

Story	Label	Output Case	FX ton	FY ton	FZ ton
Base	164	1.0CM+1.0CV	-0.10	0.00	5.13
Base	167	1.0CM+1.0CV	-0.10	0.00	3.28
Base	168	1.0CM+1.0CV	0.35	0.01	9.46
Base	176	1.0CM+1.0CV	-0.26	0.00	11.18
Base	179	1.0CM+1.0CV	-0.04	0.00	4.51
Base	180	1.0CM+1.0CV	1.52	0.00	6.44
Base	188	1.0CM+1.0CV	-1.36	0.00	8.52
Base	191	1.0CM+1.0CV	-0.07	0.00	3.31
Base	192	1.0CM+1.0CV	1.74	0.00	6.69
Base	200	1.0CM+1.0CV	-1.51	0.00	8.55
Base	203	1.0CM+1.0CV	-0.06	0.00	3.19
Base	204	1.0CM+1.0CV	0.39	-0.02	4.63
Base	209	1.0CM+1.0CV	-0.23	-0.30	7.27
Base	213	1.0CM+1.0CV	-0.07	-0.02	5.81
Base	216	1.0CM+1.0CV	-0.12	0.00	3.69
Base	217	1.0CM+1.0CV	1.01	0.00	5.37
Base	226	1.0CM+1.0CV	-0.82	0.00	6.91
Base	229	1.0CM+1.0CV	-0.08	0.00	3.29
Base	230	1.0CM+1.0CV	0.77	-0.11	10.56
Base	239	1.0CM+1.0CV	-0.78	-0.08	12.42
Base	242	1.0CM+1.0CV	-0.07	0.06	5.23
Base	243	1.0CM+1.0CV	0.22	-0.22	3.53
Base	248	1.0CM+1.0CV	-0.11	-0.27	4.86
Base	252	1.0CM+1.0CV	-0.04	-0.28	4.35
Base	255	1.0CM+1.0CV	-0.09	-0.18	2.93
Base	256	1.0CM+1.0CV	1.67	-0.05	6.71
Base	265	1.0CM+1.0CV	-1.45	-0.03	8.57
Base	268	1.0CM+1.0CV	-0.07	0.01	3.29
Base	269	1.0CM+1.0CV	1.50	-0.02	6.51
Base	278	1.0CM+1.0CV	-1.35	-0.01	8.73
Base	281	1.0CM+1.0CV	-0.07	0.01	3.41
Base	282	1.0CM+1.0CV	0.37	0.00	4.58
Base	287	1.0CM+1.0CV	-0.21	0.00	6.26
Base	291	1.0CM+1.0CV	-0.06	0.00	5.79
Base	294	1.0CM+1.0CV	-0.12	0.00	3.69
Base	295	1.0CM+1.0CV	0.94	0.00	5.27
Base	304	1.0CM+1.0CV	-0.83	-0.02	6.95
Base	307	1.0CM+1.0CV	-0.06	-0.01	3.11
Base	308	1.0CM+1.0CV	0.33	0.02	4.27
Base	313	1.0CM+1.0CV	-0.18	-0.25	7.09
Base	317	1.0CM+1.0CV	-0.08	0.02	5.53
Base	320	1.0CM+1.0CV	-0.11	0.03	3.47
Base	321	1.0CM+1.0CV	0.09	-0.15	2.85
Base	325	1.0CM+1.0CV	0.00	-0.61	5.24

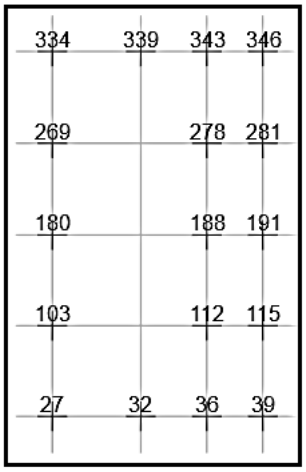
Story	Label	Output Case	FX ton	FY ton	FZ ton
Base	330	1.0CM+1.0CV	-0.22	-0.17	4.27
Base	333	1.0CM+1.0CV	-0.09	-0.10	2.61
Base	334	1.0CM+1.0CV	0.24	-0.14	3.26
Base	339	1.0CM+1.0CV	-0.18	-0.50	4.95
Base	343	1.0CM+1.0CV	-0.08	-0.14	4.83
Base	346	1.0CM+1.0CV	-0.09	-0.10	2.70
Base	347	1.0CM+1.0CV	0.62	-0.07	3.95
Base	356	1.0CM+1.0CV	-0.57	-0.07	4.87
Base	359	1.0CM+1.0CV	-0.05	-0.05	2.36
Base	360	1.0CM+1.0CV	0.38	0.00	4.52
Base	365	1.0CM+1.0CV	-0.22	0.28	7.17
Base	369	1.0CM+1.0CV	-0.07	0.00	5.67
Base	372	1.0CM+1.0CV	-0.12	-0.01	3.61
Base	373	1.0CM+1.0CV	0.35	0.00	4.55
Base	378	1.0CM+1.0CV	-0.17	0.00	6.36
Base	382	1.0CM+1.0CV	-0.07	0.00	5.95
Base	385	1.0CM+1.0CV	-0.12	0.00	3.70
Base	386	1.0CM+1.0CV	1.34	0.02	6.26
Base	395	1.0CM+1.0CV	-1.15	0.02	8.36
Base	398	1.0CM+1.0CV	-0.07	0.01	3.38
Base	399	1.0CM+1.0CV	0.33	-0.02	4.28
Base	404	1.0CM+1.0CV	-0.17	0.27	7.11
Base	408	1.0CM+1.0CV	-0.08	-0.02	5.53
Base	411	1.0CM+1.0CV	-0.11	-0.03	3.47
Base	412	1.0CM+1.0CV	0.23	-0.14	3.24
Base	417	1.0CM+1.0CV	-0.16	-0.53	4.78
Base	421	1.0CM+1.0CV	-0.07	-0.14	3.82
Base	424	1.0CM+1.0CV	-0.08	-0.09	2.67
Base	425	1.0CM+1.0CV	1.07	0.02	5.56
Base	434	1.0CM+1.0CV	-0.89	0.02	7.26
Base	437	1.0CM+1.0CV	-0.07	0.01	3.15
Base	438	1.0CM+1.0CV	0.19	-0.11	3.03
Base	443	1.0CM+1.0CV	-0.13	-0.50	4.96
Base	447	1.0CM+1.0CV	-0.07	-0.10	3.68
Base	450	1.0CM+1.0CV	-0.07	-0.06	2.54



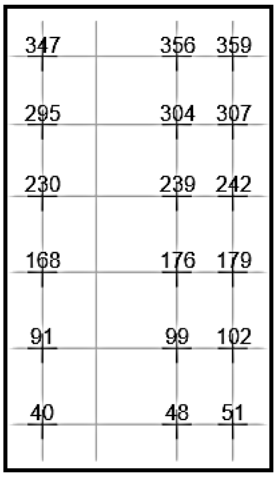
PREESCOLAR



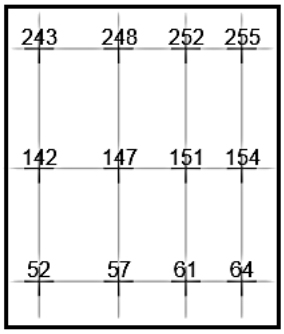
SECUNDARIA



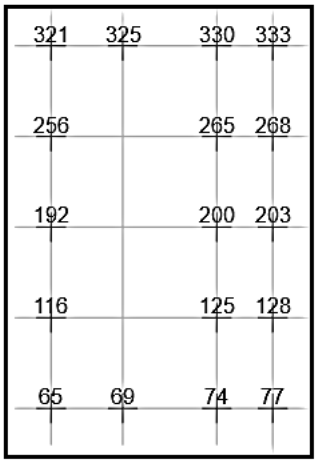
MULTIRPOPÓSITO



RESTAURANTE



ADMINISTRACIÓN



BIBLIOTECA

12.2). DISEÑO DE ZAPATAS

ZAPATA Z - 1

ESTRUCTURAS I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

Materiales

Dimensión de la Zapata (m)	1.00	x	1.00	Concreto	210 kg/cm^2
Dimensión de Pedestal	0.30	x	0.30	Acero	4200 kg/cm^2

Altura de la zapata 0.20 m

Carga Real de la Columna P = 8.5 ton

Presion Admisible: σ = 12.00 ton/m^2

Presion Neta: σ = 8.49 ton/m^2 Ok

Flexión: M = 0.52 ton-m/m Factor de Mayoración: 1.50

Mu = 0.78 ton-m/m

h = 20 cm

r = 7.5 cm

d = 12.5 cm

Cuantía = 0.0013 (Análisis)

As = 1.68 (Análisis)

Cuantía = 0.0022 (Mínima sobre la sección bruta de concreto)

As = 2.75 (Mínima)

Armadura Principal **TOTAL** en cada sentido: As = 2.75 cm^2 — Colocar #3c/ 25 cm

Cortante: **1**

V (d/$_2$) = 1.74 ton

Vu = 2.61 ton

d = 0.125 m

v_u = 2.09 kg/cm^2

ϕVc = 19.95 kg/cm^2 OK

ó ϕVc = 13.55 kg/cm^2 OK

2

V (d) = 1.91 ton

Vu = 2.87 ton

d = 12.50 m

v_u = 0.02 kg/cm^2

ϕVc = 6.53 kg/cm^2 OK

Transmisión de Esfuerzos de la columna a la zapata:

Presión Producida: 0.014 ton/cm^2

Presión Maxima: 0.187 ton/cm^2 OK

Longitud de Desarrollo Necesaria (Refuerzo de la Columna)

L_{db} = 43.3 cm

ZAPATA Z - 2

PREESCOLAR I.E.D LUIS A. VALBUENA - RURAL

VEREDA NAGUY, LA VEGA (CUND)

Materiales

Dimensión de la Zapata (m)	1.20	x	1.20	Concreto	210 kg/cm^2
Dimensión de Pedestal	0.30	x	0.30	Acero	4200 kg/cm^2

Altura de la zapata 0.20 m

Carga Real de la Columna P = 13.7 ton

Presion Admisible: σ = 12.00 ton/m^2

Presion Neta: σ = 9.52 ton/m^2 Ok

Flexión: M = 1.16 ton-m/m Factor de Mayoración: 1.50

Mu = 1.73 ton-m/m

h = 20 cm

r = 7.5 cm

d = 12.5 cm

Cuantía = 0.0025 (Análisis)

As = 3.78 (Análisis)

Cuantía = 0.0022 (Mínima sobre la sección bruta de concreto)

As = 3.30 (Mínima)

Armadura Principal **TOTAL** en cada sentido: As = 3.78 cm^2 — Colocar #3c/ 15 cm

Cortante:

1

V (d/$_2$)	=	3.00	ton
Vu	=	4.49	ton
d	=	0.125	m
v_u	=	3.00	kg/cm^2
ϕVc	=	19.95	kg/cm^2 OK
ó ϕVc	=	13.55	kg/cm^2 OK

2

V (d)	=	3.71	ton
Vu	=	5.57	ton
d	=	12.50	m
v_u	=	0.04	kg/cm^2
ϕVc	=	6.53	kg/cm^2 OK

Transmisión de Esfuerzos de la columna a la zapata:

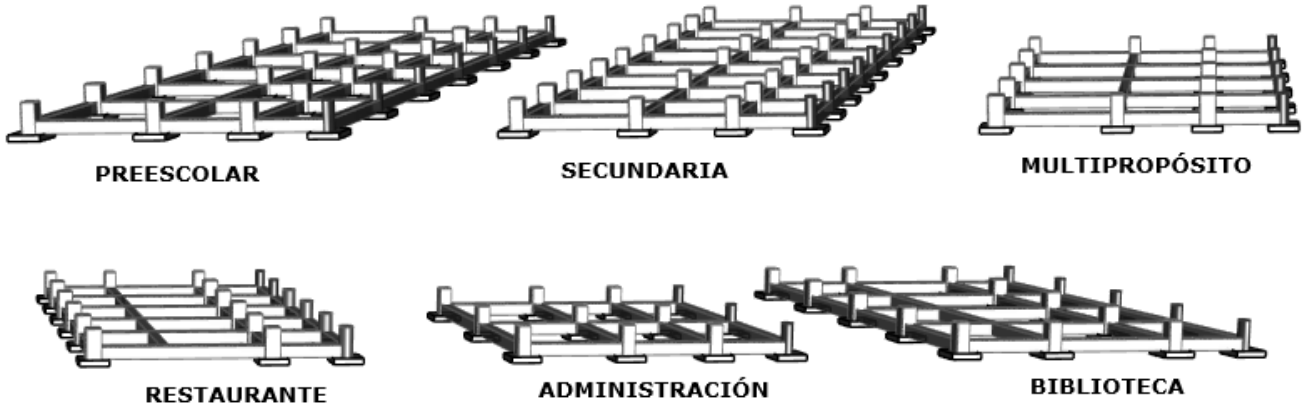
Presión Producida: 0.023 ton/cm^2

Presión Maxima: 0.187 ton/cm^2 OK

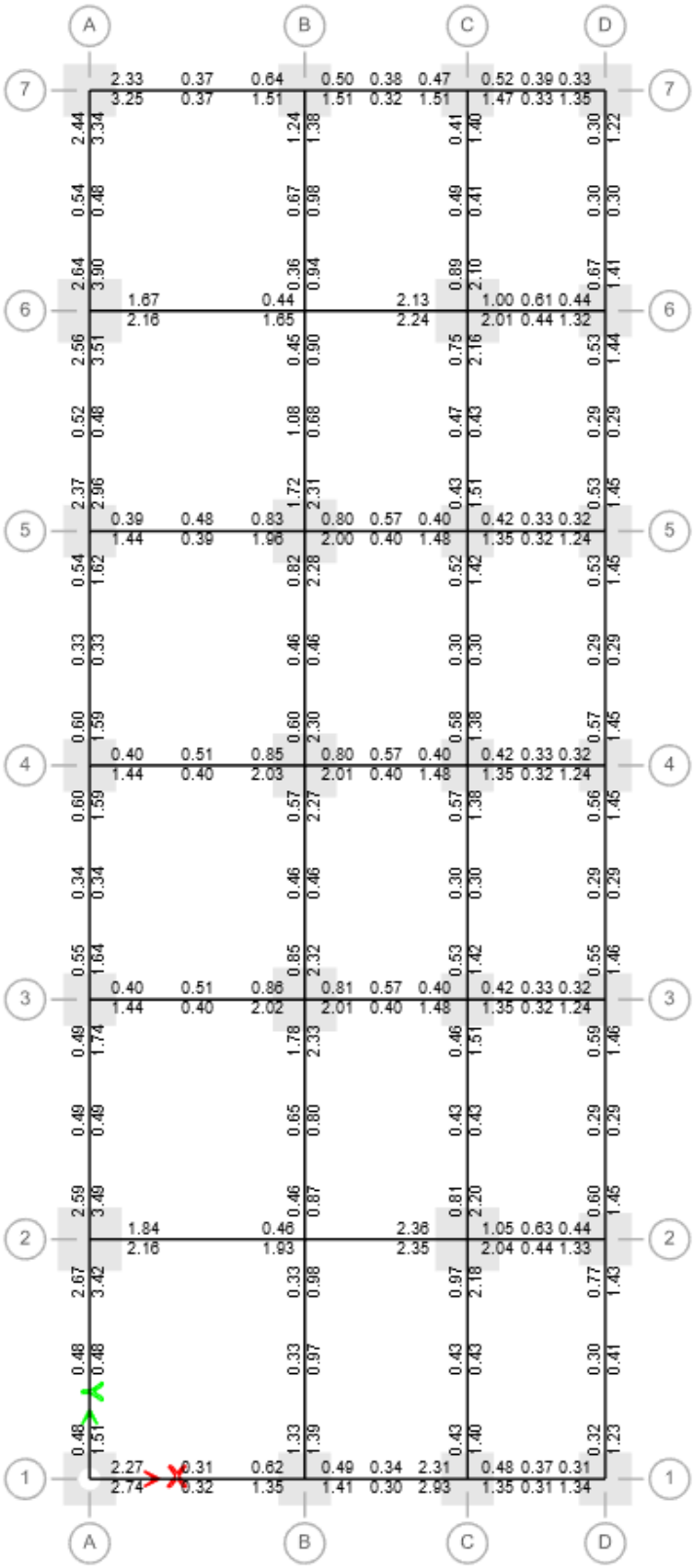
Longitud de Desarrollo Necesaria (Refuerzo de la Columna)

L_{db} = 43.3 cm

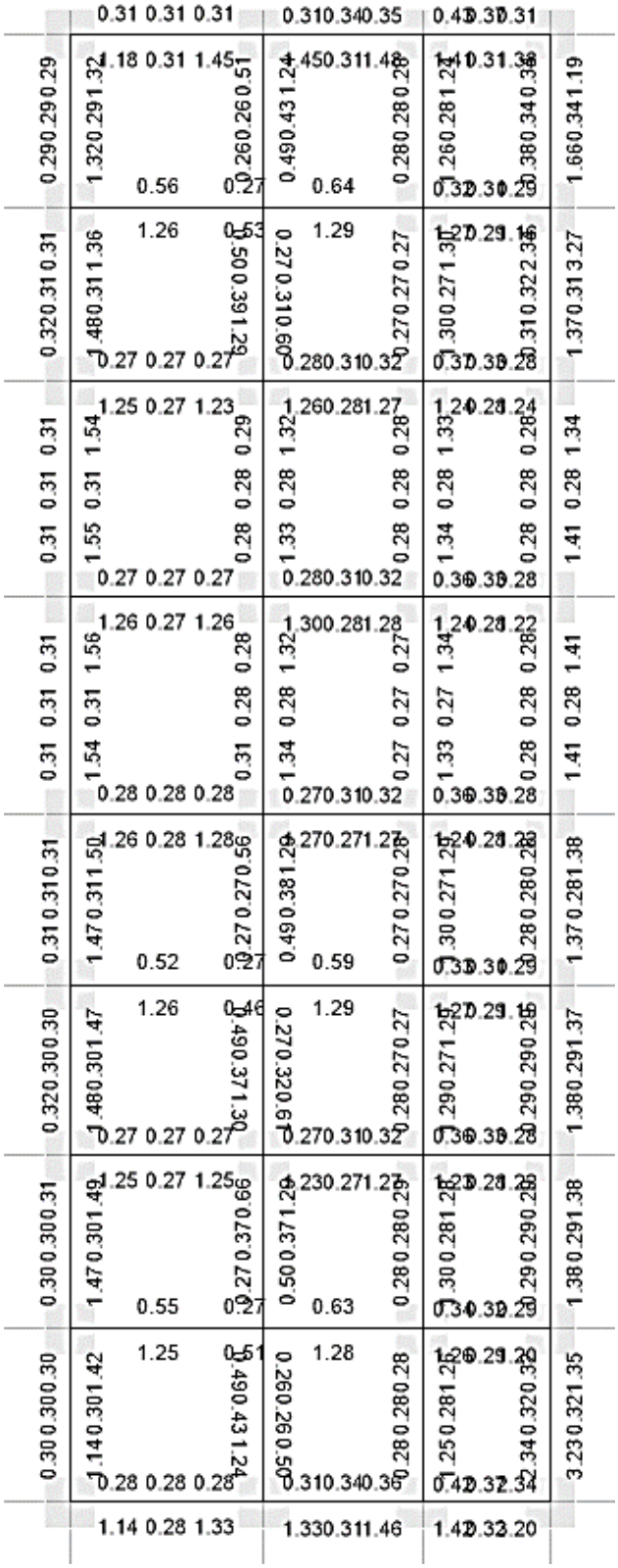
12.3). DISEÑO DE VIGAS AMARRE VA-



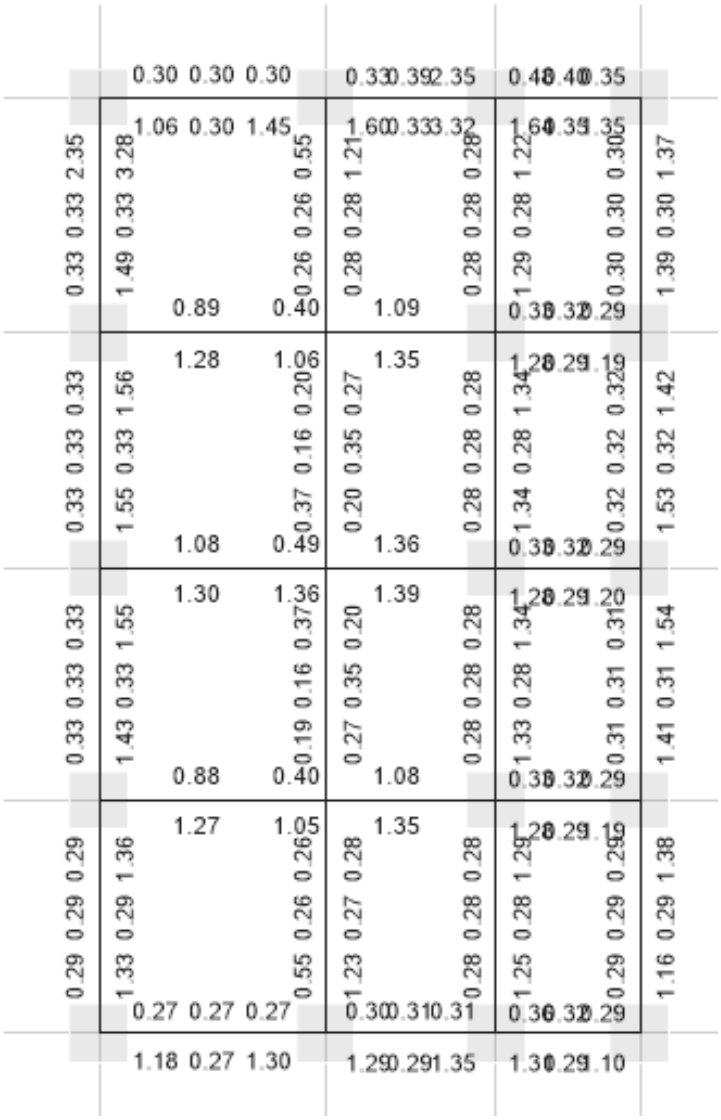
VISTA 3D MODELOS MATEMÁTICOS - CIMENTACIÓN



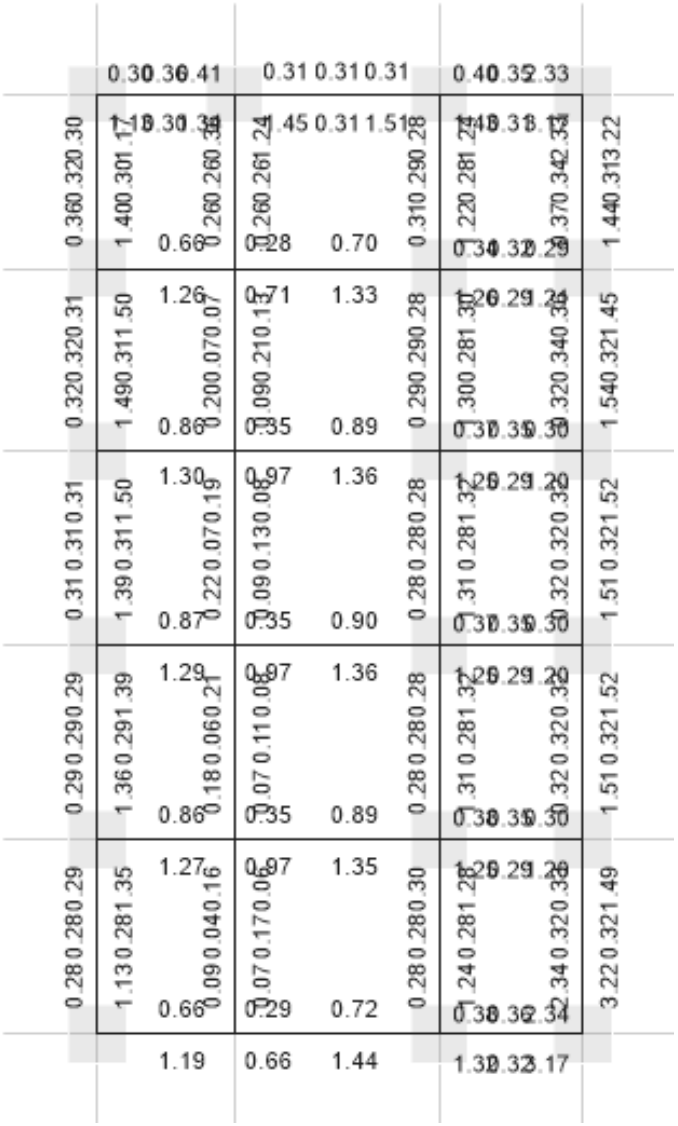
REFUERZO LONGITUDINAL, cm²
SUPERIOR E INFERIOR – PREESCOLAR



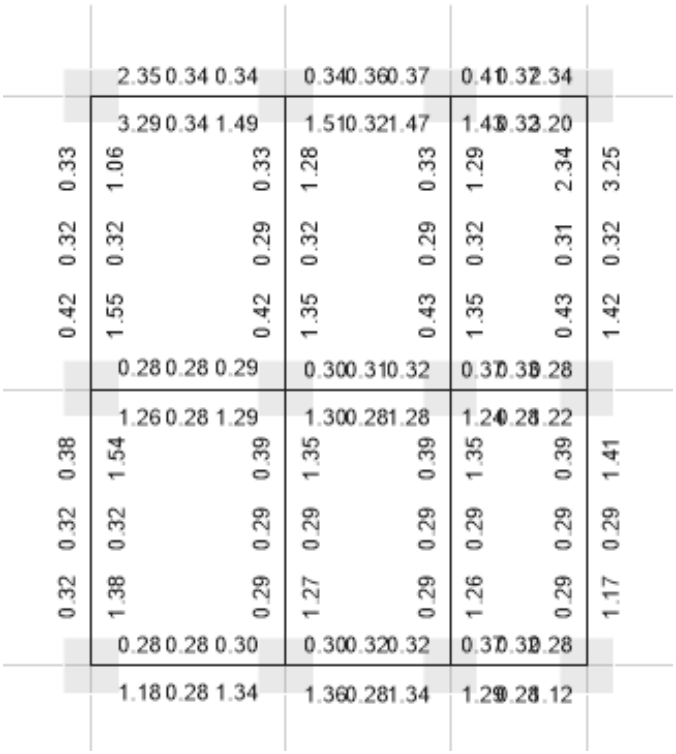
REFUERZO LONGITUDINAL, cm²
SUPERIOR E INFERIOR – SECUNDARIA



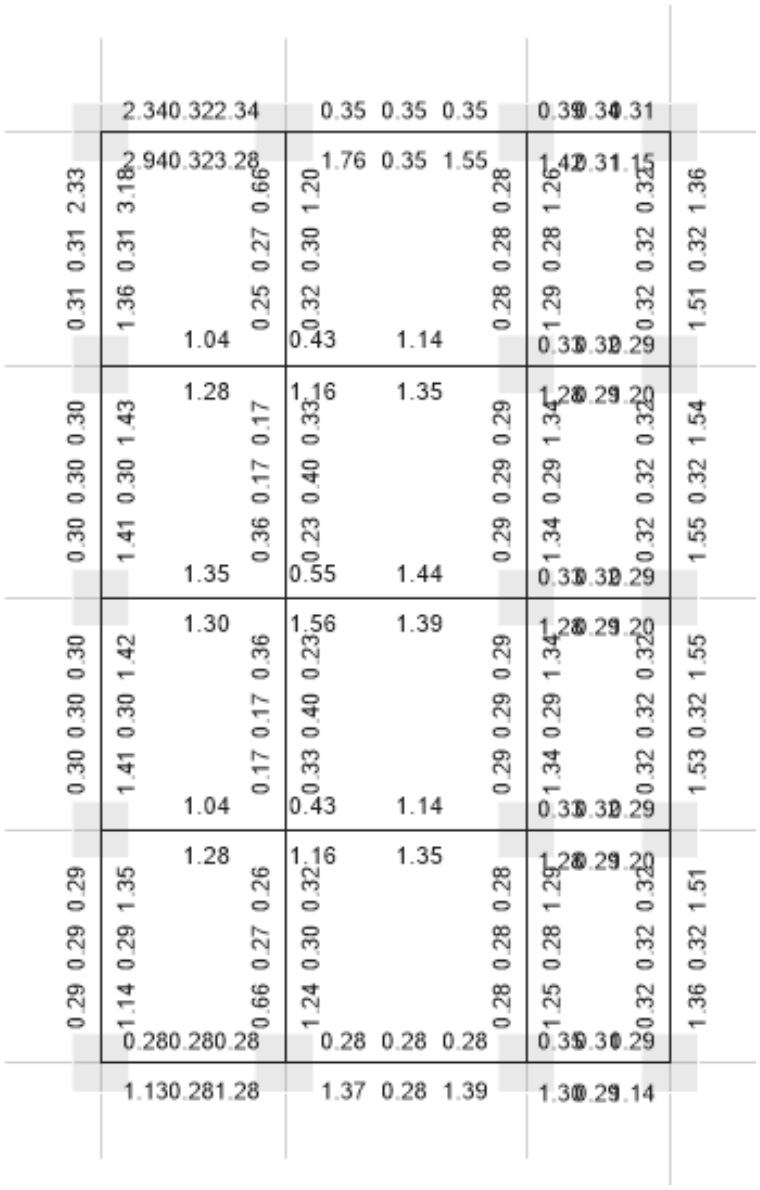
REFUERZO LONGITUDINAL, cm²
SUPERIOR E INFERIOR - MULTIPROPÓSITO



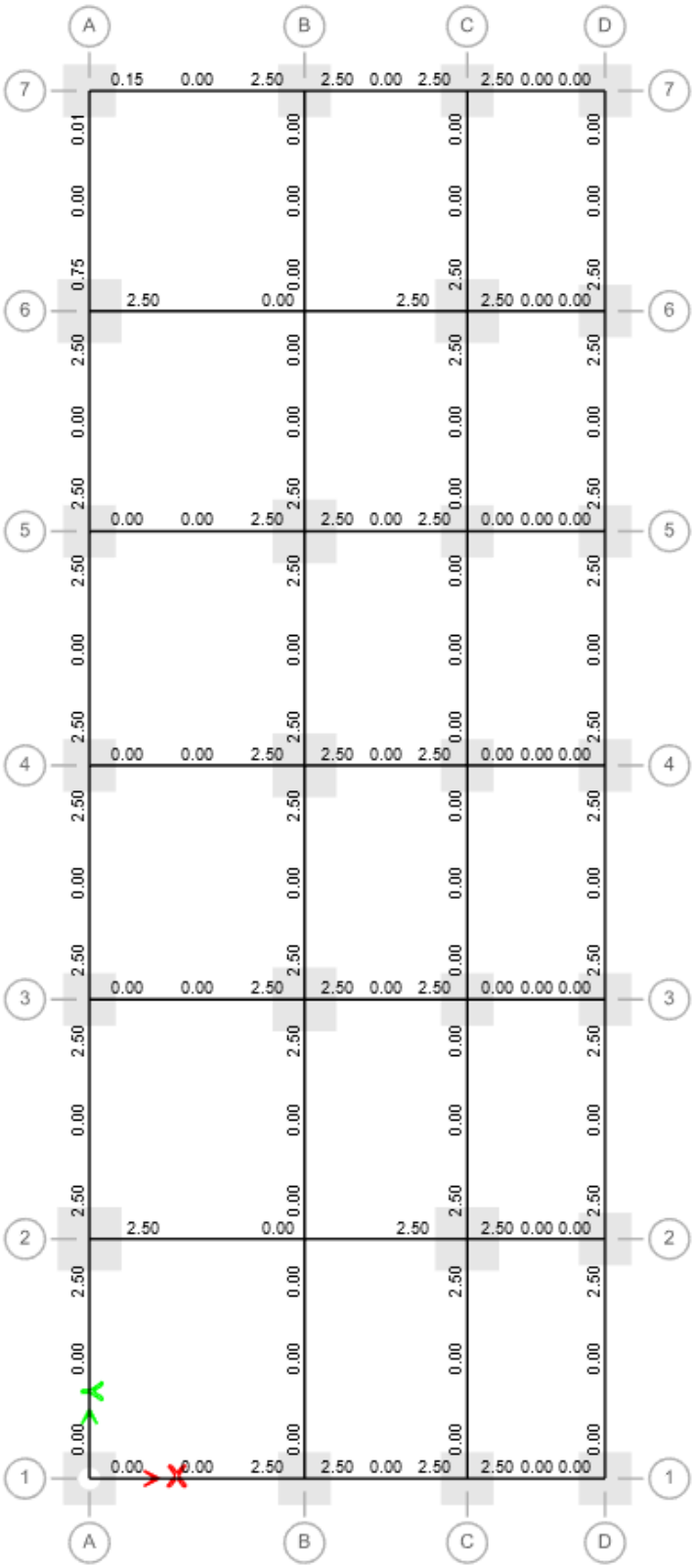
REFUERZO LONGITUDINAL, cm²
SUPERIOR E INFERIOR - RESTAURANTE



REFUERZO LONGITUDINAL, cm²
SUPERIOR E INFERIOR – ADMINISTRACIÓN

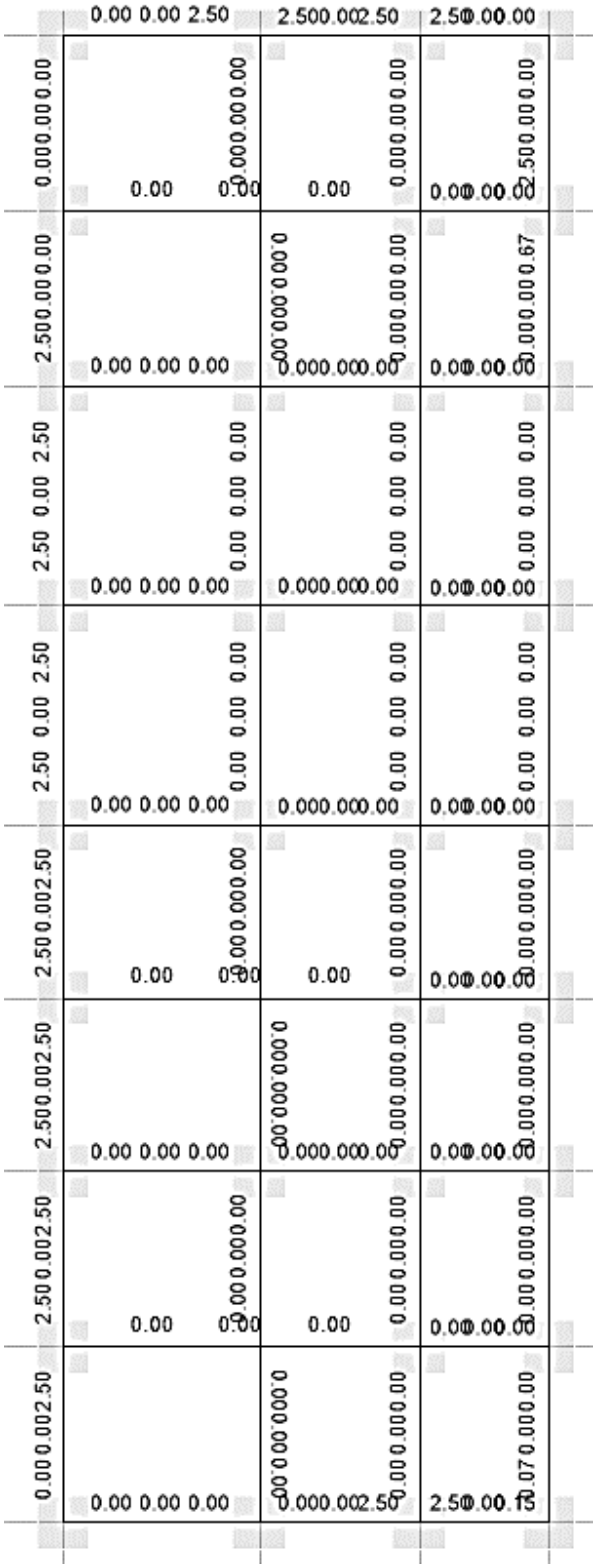


REFUERZO LONGITUDINAL, cm²
SUPERIOR E INFERIOR – BIBLIOTECA

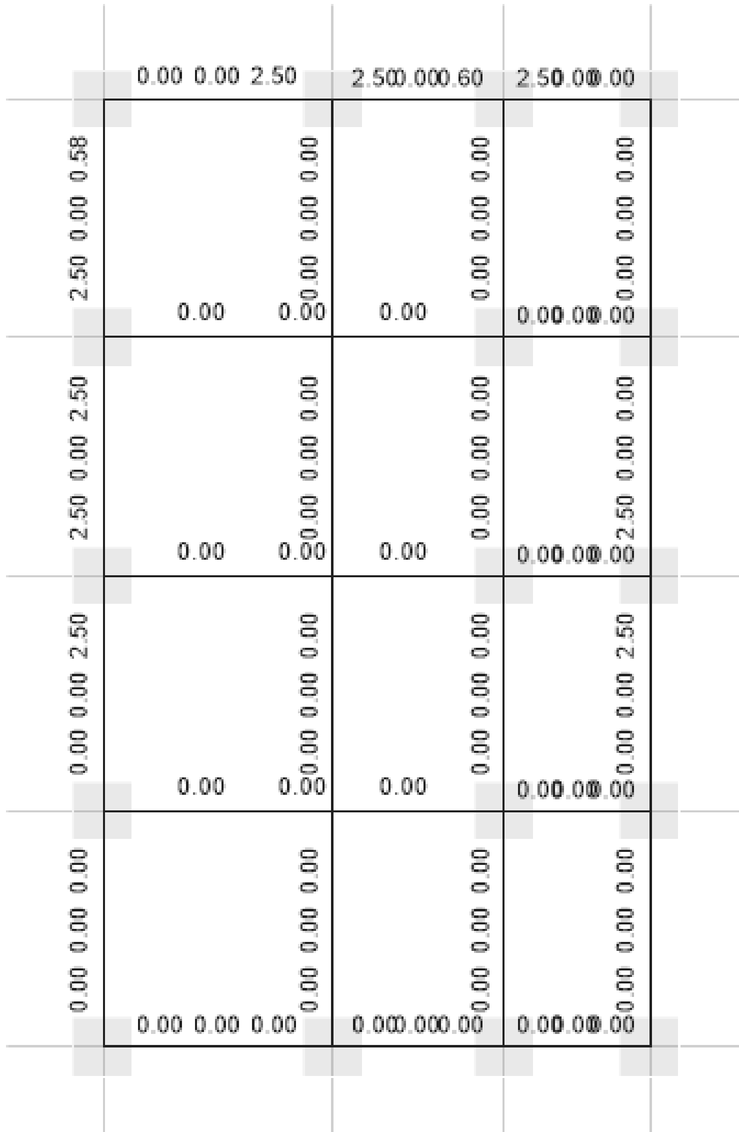


REFUERZO TRANSVERSAL, cm²/m

PREESCOLAR

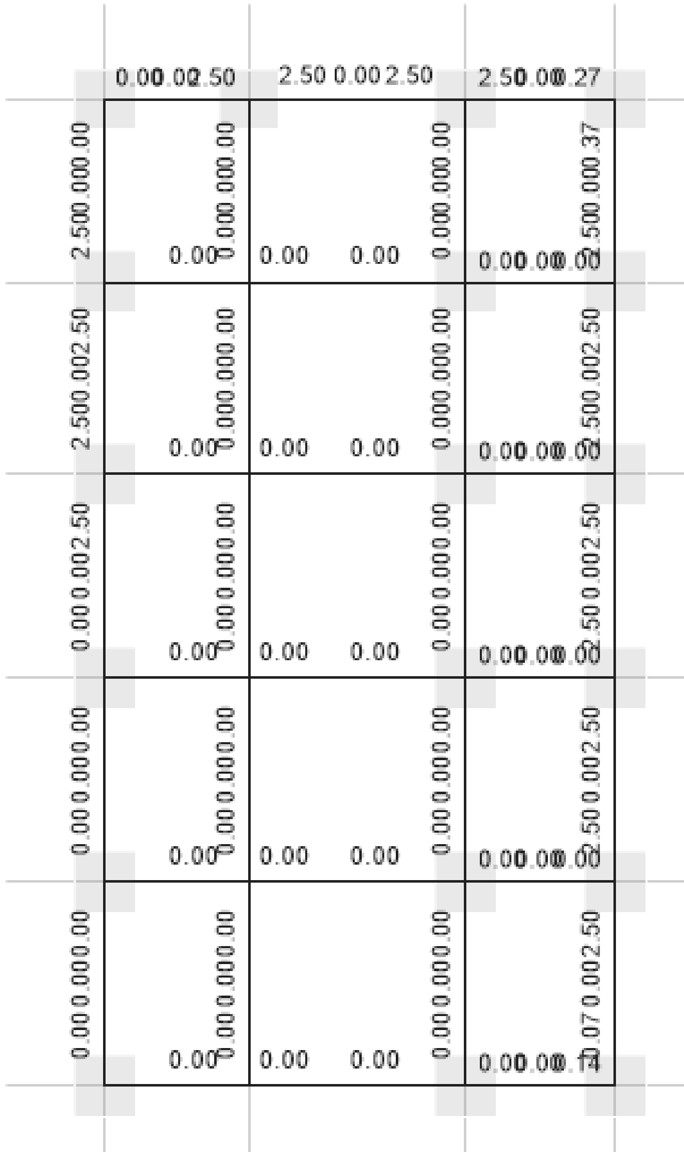


REFUERZO TRANSVERSAL, cm²
SECUNDARIA

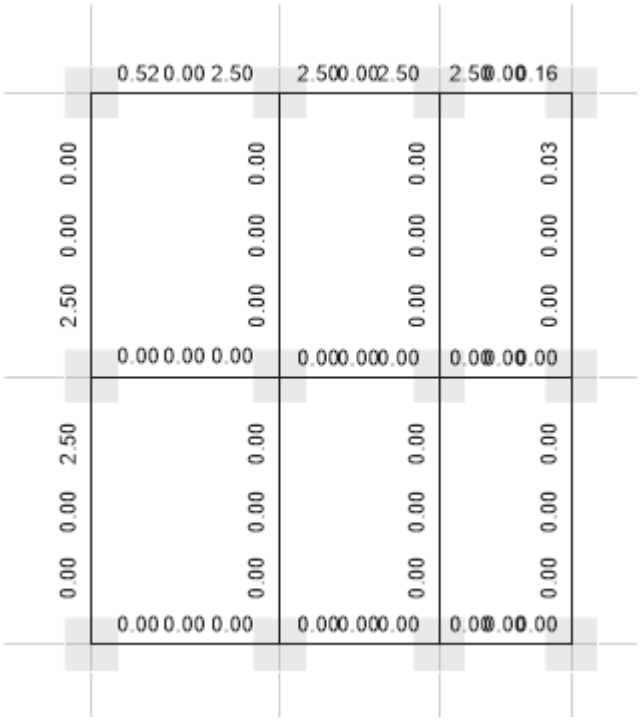


REFUERZO TRANSVERSAL, cm²

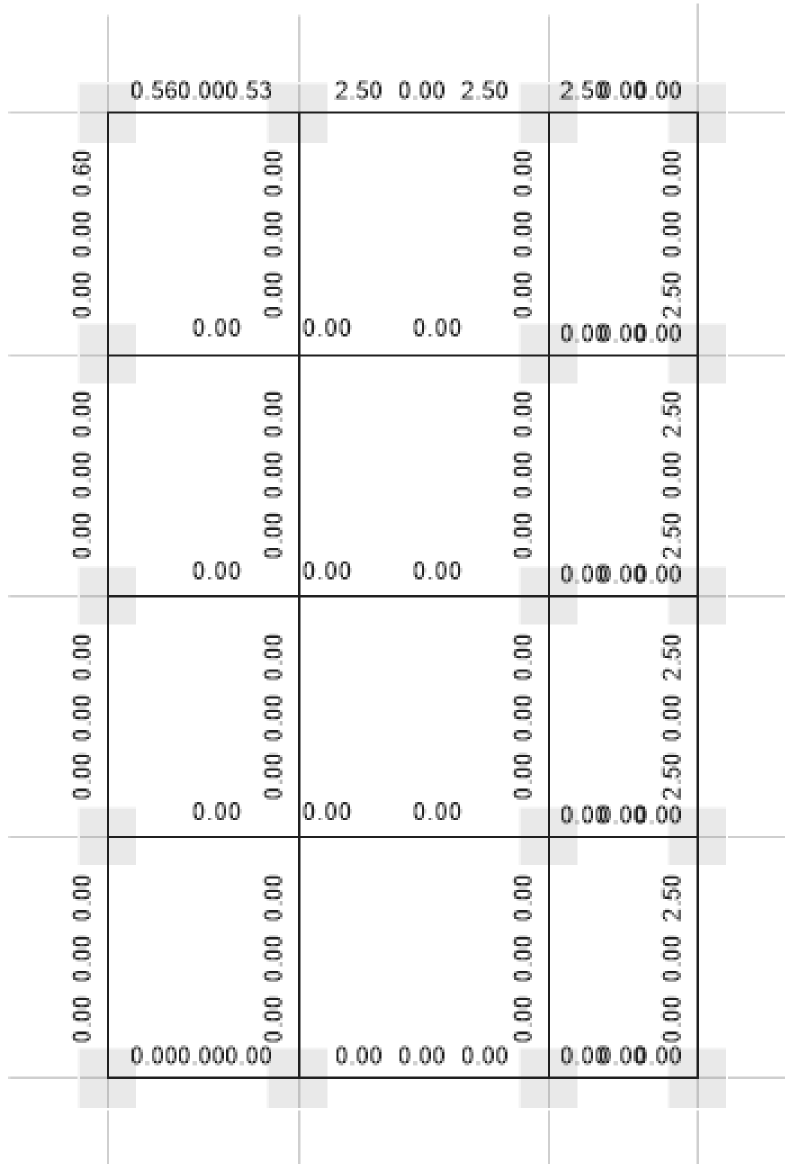
MULTIPROPÓSITO



REFUERZO TRANSVERSAL, cm²
RESTAURANTE



REFUERZO TRANSVERSAL, cm²
ADMINISTRACIÓN



REFUERZO TRANSVERSAL, cm²

BIBLIOTECA

ANEXO 1: CERTIFICACIONES DE EXPERIENCIA







méndez & asociados
proyectos de ingeniería ltda.

ISO 9001: 2008
BUREAU VERITAS
Certification

ALCANCE: CONSULTORIA EN ASESORÍAS DISEÑO Y ESTUDIOS ARQUITECTÓNICOS, ESTRUCTURALES, DE VULNERABILIDAD Y REFORZAMIENTO, GEOLÓGICOS, GEOTÉCNICOS, SUELOS, ELÉCTRICOS, HIDRÁULICOS, SANITARIOS, AMBIENTALES, URBANÍSTICOS, AIRE ACONDICIONADO Y VENTILACIÓN, DISEÑO DE VIAS INTERNAS, TOPOGRAFÍA, PRESUPUESTO Y PROGRAMACIÓN, SEGURIDAD Y CONTROL, PLANES DE REGULACION Y MANEJO LEGAL PARA PROYECTOS DE INGENIERIA CIVIL Y ARQUITECTURA.

AMP MÉNDEZ & ASOCIADOS PROYECTOS DE INGENIERÍA LTDA.

CERTIFICA QUE:

El Señor **CÉSAR BONILLA MORALES,** identificado con C.C. No 1.014.179.942 de Bogotá, laboro para nuestra firma desde 05 de Diciembre de 2007 hasta el día 02 de Julio de 2012, con las siguientes aclaraciones:

1. Del 05 de Diciembre al 20 de Diciembre de 2007 con contrato por prestación de servicios en el cargo de Auxiliar de Ingeniería.
2. Del 10 de Enero de 2008 al 31 de Agosto de 2010 con contrato por prestación de servicios en el cargo de Auxiliar de Ingeniería.
3. Del 01 de Septiembre de 2010 a 02 de Julio de 2012 con contrato a término indefinido en el cargo de Ingeniero de Diseño.

La presente certificación se expide en la ciudad de Bogota D.C., a los cinco (05) días del mes de Septiembre de 2012.

ESTRUCTURAS I.E.D VALBUENA, LA VEGA (CUND)

LILA GABRIELA MÉNDEZ FLÓREZ
Gerente General.

PBX: 6088388
Fax: 2588675
Cel: 3108108181
Dir: Cr 13 No 134 -22
E-mail: amp@amping.com.co

MIGUEL GÓMEZ
CONSULTORÍA ESTRUCTURAL

MIGUEL GÓMEZ PADILLA
C.C. 19.226.663.
M.P. 25202-08232 CND.

CERTIFICA QUE:

EL INGENIERO **CÉSAR BONILLA MORALES** IDENTIFICADO CON CÉDULA DE CIUDADANÍA 1.014.179.942 DE BOGOTÁ D.C. Y MATRÍCULA PROFESIONAL 25202190326 CND MANTIENE RELACIONES LABORALES INDEPENDIENTES CONMIGO DESDE ENERO DE 2011 HASTA LA FECHA, DESEMPEÑANDO LABORES DE DISEÑO ESTRUCTURAL (CÁLCULOS Y PLANOS) MANIFESTANDO RESPONSABILIDAD Y CUMPLIMIENTO EN SUS TRABAJOS.

SE FIRMA EN CHÍA A LOS DIECISÉIS (16) DIAS DEL MES DE MAYO DE DOS MIL DIECISEIS (2016).

EN CONSTANCIA FIRMA:

M. Gómez

MIGUEL GÓMEZ PADILLA
Especialista Estructural
C.C. 19.226.663 Btá.

ESTRUCTURAS I.E.D VALBUENA LA VEGA (CUND)

Calle 1 Sur No. 8 68 Casa 9 – Chía Cundinamarca – Tel: 885 3191 – Cel: 310 3232235
E-mail: mgomez2053@hotmail.com

LUIS FERNANDO BALLESTEROS MARIN
INGENIERO CIVIL

LUIS FERNANDO BALLESTEROS MARÍN
NIT: 93.357.381-2
M.P: 25202-29562 CND

Certifica Que:

El señor **CESAR BONILLA MORALES** identificado con cédula de ciudadanía 1.014.179.942 de Bogotá D.C. y matrícula profesional 25202-190326 CND mantiene relaciones laborales independientes con nosotros desde mayo 04 de 2015 hasta la fecha, devengando mensualmente **DOS MILLONES OCHOCIENTOS MIL PESOS M. CTE (COP 2.800.000)**, desempeñando labores de calculista estructural demostrando responsabilidad y cumplimiento en sus trabajo.

La presente se firma a los cinco (05) días del mes de Agosto de 2015.

Atentamente,

Luis Fernando Ballesteros M.
Ingeniero Civil

ESTRUCTURAS I.E.D VALBUENA, LA VEGA (CUND)

Calle 93 No.15-51 Oficina 301 Bogotá D.C. - lfbming@yahoo.es - Telefax: 6185215;
Teléfono: 5190660 Ext: 105 Celular: 300 6524126

CONSTRUCTORA MODERNA LTDA.
NIT: 800233095
CALLE 3 # 5-17 SOPÓ CUNDINAMARCA
TEL: (1) 8570410

Constructora Moderna

CONSTRUCTORA MODERNA LTDA CERTIFICA

QUE EL SEÑOR **CÉSAR BONILLA MORALES**
INGENIERO CIVIL - ESTRUCTURAL
C.C. 1.014.179.942 De Bogotá D.C.
M.P. 25202-190326 CND

ESTRUCTURAS I.E.D VALBUENA, LA VEGA (CUND)

Realizó con nosotros el diseño estructural, planos y detalles de las estructuras sujetas a las normas legales y procedimientos vigentes del Reglamento Colombiano de Sismo Resistencia NSR – 10. De los siguientes proyectos:

1) **Bodega Centro - Almacén D1** (Sopó- Cundinamarca), valor: COP 1.000.000. Área de diseño: 1.900 m^2.
2) **Casa Emilia** (Sopó- Cundinamarca), valor: COP 1.000.000. . Área de diseño: 580 m^2.
3) **Casa TALERO 2** (Sopó- Cundinamarca), valor: COP 700.000. . Área de diseño: 300 m^2.

Las labores se realizaron en su totalidad, destacándose por su labor, responsabilidad y compromiso.

La presente certificación se firma por solicitud del interesado en el municipio Sopó Cundinamarca a los cuatro (4) días del mes de Agosto del año dos mil dieciséis (2016).

Atentamente:

CONSTRUCTORA MODERNA LTDA Nit 800.233.095-1

Arq. PABLO E. OSPINA ORJUELA
Gerente General.
C.C.3180620 Sopó.
M.P.2570060248 CND.

GRUPO GABB S.A.S
NIT. 900350131-2

ARQUITECTURA | INGENIERÍA | CONSTRUCCIÓN | ADMINISTRATIVOS

GRUPO GAAB

GRUPO GAAB S.A.S.

CERTIFICA QUE:

Ingeniero Civil. César Bonilla Morales.
C.C. 1.014.179.942 de Bogotá D.C.
MP. 25202190326 CND

Mantiene relaciones laborales independientes con la empresa demostrando responsabilidad y cumplimiento en sus trabajos:

1. **Cálculo estructural y estudios de suelos para La edificación HAS LTDA** ubicada en la dirección kr 54 N 44 – 55 en Bogotá.
PROYECTO DE: 350 M2.
VALOR DEL PROYECTO ESTRUCTURAL Y SUELOS: $3.300.000.
Fecha: Junio de 2012.
2. **Cálculo estructural y estudios de suelos para El edificio VIZCAINO** ubicado en la dirección CLL 1 n 52 - 17 en Bogotá por valor de $2.700.000. Fecha: Junio de 2015.
PROYECTO DE: 320 M2.
VALOR DEL PROYECTO ESTRUCTURAL Y SUELOS: $2.700.000.
Fecha: Junio de 2015.
3. **Cálculo estructural y estudios de suelos para El edificio LARA** ubicado en la dirección Kr 54 # 28-49 en Bogotá.
PROYECTO DE: 390 M2.
VALOR DEL PROYECTO ESTRUCTURAL Y SUELOS: $2.700.000.
Fecha: Agosto de 2015.

Las labores se realizaron en su totalidad. Destacándose por su excelente labor, responsabilidad y diseño.
La presente certificación se expide por solicitud del interesado en la ciudad de Bogotá d.c., a los cinco (05) días del mes de Agosto del año dos mil quince (2015).

Cordialmente,

ARQ. DAVID ALFONSO B.
Director de Proyectos
Grupo GAAB S.A.S.

ESTRUCTURAS I.E.D VALBUENA, LA VEGA (CUND)

Copyright by GRUPO GAAB S.A.S Bogotá-Colombia | PBX. 2-792149| Dr: Cra 28 N° 42-33
E-mail: grupo@grupogaab.com grupogaab@empresarios.com Skype: GRUPOGAAB
www.grupogaab.com

JAIRO AMAYA GIL
Ingeniería

JAIRO AMAYA GIL
NIT: 80180077 - 1
M.P: 25202214937CND

Certifica Que:

El señor **CÉSAR BONILLA MORALES** identificado con cédula de ciudadanía **1.014.179.942** de Bogotá D.C. y matricula profesional **25202190326 CND** mantiene relaciones laborales independientes con nosotros demostrando responsabilidad y cumplimiento en sus trabajos:

1. Cálculo Estructural para la edificación CASA JANNETH SÁNCHEZ ubicada en la dirección Calle 2B con CR5 de Sopó CND por valor de $ 1.000.000. Fecha: Octubre de 2014.

2. Cálculo Estructural para el EDIFICIO ENRIQUE SÁNCHEZ ubicado en la dirección Calle 4 con CR 1 Este de Sopó CND por valor de $ 2.500.000. Fecha: Septiembre de 2014.

3. Cálculo Estructural para la edificación CASA FRANCO ubicado en la dirección Condominio Acuarela Lote 44 de Sopó CND por valor de $ 1.200.000 Fecha: Julio de 2014.

4. Cálculo Estructural para la edificación CASA WALTER ALVAREZ ubicado en la dirección Calle 9 con CR 4 de Sopó CND por valor de $ 1.000.000 Fecha: Septiembre de 2014.

5. Cálculo Estructural y Estudio de Suelos para EL EDIFICIO CALLE 41 SUR ubicado en la dirección Calle 41 sur # 88C-06 de Bogotá D.C por valor de $ 1.500.000 Fecha: diciembre de 2014.

6. Cálculo Estructural y Estudio de Suelos para EL EDIFICIO PALESTINA ubicado en la dirección TRANSV. 76 # 81G-59 de Bogotá D.C por valor de $ 1.500.000 Fecha: Febrero de 2015.

La presente se firma a los tres (30) días del mes de Junio de 2015.

Atentamente,

JAIRO AMAYA GIL
Ingeniero Civil

Carrera 46 No. 129 40 Primer piso Int: 1 – Barrio Prado Veraniego – Bogotá DC
T: 6144512 – 32133199252 – Correo: Planos_2005@yahoo.com

ESTRUCTURAS I.E.D VALBUENA, LA VEGA (CUND)

ENTRE MUCHAS OTRAS . . .

ANEXO 2: LISTADO DE PLANOS ESTRUCTURALES

Proyecto: **DISEÑO ESTRUCTURAL I..E.D LUIS A. VALBUENA**

Dirección: **Vereda Naguy, La Vega (Cund)**

PLANO	CONTENIDO	ÁREA m²	FECHA
ESTR-01	PLANTA LOCALIZACIÓN COLUMNAS REFUERZOS COLUMNAS PLANTA ZAPATAS ISOMÉTRICOS DETALLES	CIMENTACIÓN: 272	24-NOV-2024
ESTR-02	REFUERZO ZAPATAS DETALLES CIMENTACIÓN PLANTA VIGAS CIMENTACIÓN PLANTA VIGAS CUBIERTA REFUERZO VIGAS CIMENTACIÓN DETALLES	CUBIERTA: 274	24-NOV-2024
ESTR-03	REFUERZO VIGAS CUBIERTA DETALLES CUBIERTA CORTE TRANSVERSAL DETALLES		24-NOV-2024