



SAP2000 Analysis Report

Prepared by
Hewlett-Packard Company

Model Name: 30-05-19.sdb

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1. Model geometry

This section provides model geometry information, including items such as joint coordinates, joint restraints, and element connectivity.

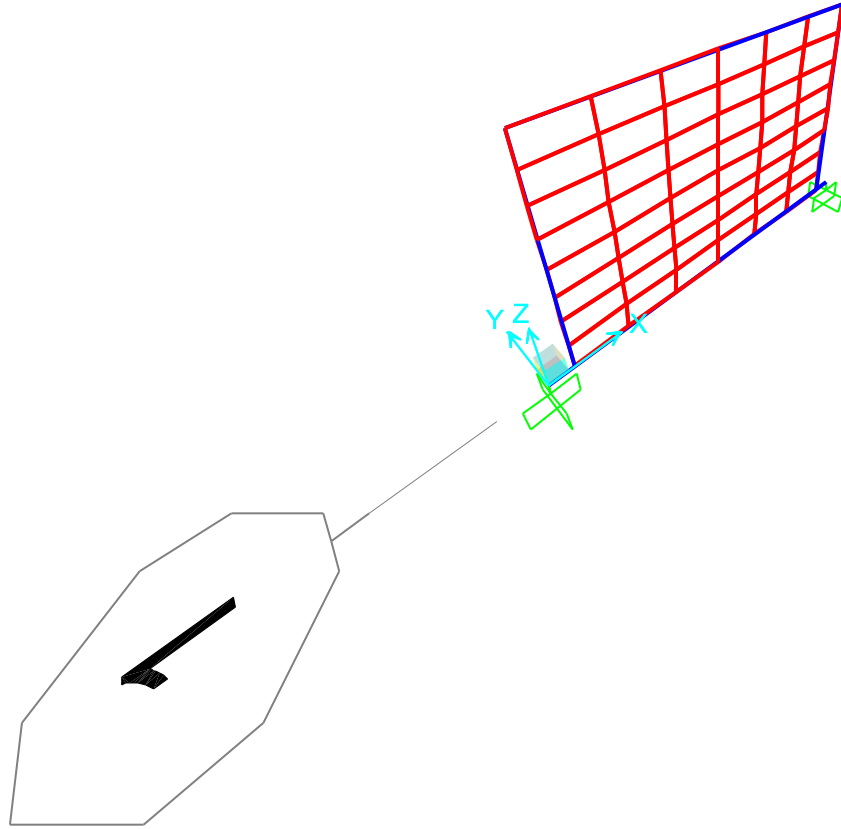


Figure 1: Finite element model

1.1. Joint coordinates

Table 1: Joint Coordinates, Part 1 of 2

Table 1: Joint Coordinates, Part 1 of 2							
Joint	CoordSys	CoordType	GlobalX m	GlobalY m	GlobalZ m	OriginalGX m	OriginalGY m
5 GLOBAL							
GLOBAL							
Joint	U1	U2	U3	R1	R2	R3	
5	Yes	Yes	Yes	Yes	Yes	Yes	
6	Yes	Yes	Yes	Yes	Yes	Yes	

1.3. Element connectivity

Table 3: Connectivity - Frame

Table 3: Connectivity - Frame

Frame	JointI	JointJ	Length m
3	5	6	2,85
8	7	13	1,675
9	8	14	1,675
10	13	14	2,5

Table 4: Frame Section Assignments

Table 4: Frame Section Assignments

Frame	AnalSect	DesignSect	MatProp
3	VIGA 30X30 PÓRTICO	VIGA 30X30 PÓRTICO	Default
8	COLUMNA 20X20 MAMPOSTERÍA	COLUMNA 20X20 MAMPOSTERÍA	Default
9	COLUMNA 20X20 MAMPOSTERÍA	COLUMNA 20X20 MAMPOSTERÍA	Default
10	VIGA 20X20 MAMPOSTERÍA	VIGA 20X20 MAMPOSTERÍA	Default

Table 5: Connectivity - Area

Table 5: Connectivity - Area

Area	Joint1	Joint2	Joint3	Joint4
2	7	15	16	17
3	17	16	18	19
4	19	18	20	21
5	21	20	22	23
6	23	22	24	25
7	25	24	26	27
8	27	26	28	29
9	29	28	30	13
10	15	31	32	16
11	16	32	33	18
12	18	33	34	20
13	20	34	35	22
14	22	35	36	24
15	24	36	37	26
16	26	37	38	28
17	28	38	39	30
18	31	40	41	32
19	32	41	42	33
20	33	42	43	34
21	34	43	44	35

Table 5: Connectivity - Area

Area	Joint1	Joint2	Joint3	Joint4
22	35	44	45	36
23	36	45	46	37
24	37	46	47	38
25	38	47	48	39
26	40	49	50	41
27	41	50	51	42
28	42	51	52	43
29	43	52	53	44
30	44	53	54	45
31	45	54	55	46
32	46	55	56	47
33	47	56	57	48
34	49	58	59	50
35	50	59	60	51
36	51	60	61	52
37	52	61	62	53
38	53	62	63	54
39	54	63	64	55
40	55	64	65	56
41	56	65	66	57
42	58	8	67	59
43	59	67	68	60
44	60	68	69	61
45	61	69	70	62
46	62	70	71	63
47	63	71	72	64
48	64	72	73	65
49	65	73	14	66

Table 6: Area Section Assignments

Table 6: Area Section Assignments

Area	Section	MatProp
2	MAMPOSTERÍA EN CONCRETO	Default
3	MAMPOSTERÍA EN CONCRETO	Default
4	MAMPOSTERÍA EN CONCRETO	Default
5	MAMPOSTERÍA EN CONCRETO	Default
6	MAMPOSTERÍA EN CONCRETO	Default
7	MAMPOSTERÍA EN CONCRETO	Default
8	MAMPOSTERÍA EN CONCRETO	Default
9	MAMPOSTERÍA EN CONCRETO	Default
10	MAMPOSTERÍA EN CONCRETO	Default
11	MAMPOSTERÍA EN CONCRETO	Default

Table 6: Area Section Assignments

Area	Section	MatProp
12	MAMPOSTERÍA EN CONCRETO	Default
13	MAMPOSTERÍA EN CONCRETO	Default
14	MAMPOSTERÍA EN CONCRETO	Default
15	MAMPOSTERÍA EN CONCRETO	Default
16	MAMPOSTERÍA EN CONCRETO	Default
17	MAMPOSTERÍA EN CONCRETO	Default
18	MAMPOSTERÍA EN CONCRETO	Default
19	MAMPOSTERÍA EN CONCRETO	Default
20	MAMPOSTERÍA EN CONCRETO	Default
21	MAMPOSTERÍA EN CONCRETO	Default
22	MAMPOSTERÍA EN CONCRETO	Default
23	MAMPOSTERÍA EN CONCRETO	Default
24	MAMPOSTERÍA EN CONCRETO	Default
25	MAMPOSTERÍA EN CONCRETO	Default
26	MAMPOSTERÍA EN CONCRETO	Default
27	MAMPOSTERÍA EN CONCRETO	Default
28	MAMPOSTERÍA EN CONCRETO	Default
29	MAMPOSTERÍA EN CONCRETO	Default
30	MAMPOSTERÍA EN CONCRETO	Default
31	MAMPOSTERÍA EN CONCRETO	Default
32	MAMPOSTERÍA EN CONCRETO	Default
33	MAMPOSTERÍA EN CONCRETO	Default
34	MAMPOSTERÍA EN CONCRETO	Default
35	MAMPOSTERÍA EN CONCRETO	Default
36	MAMPOSTERÍA EN CONCRETO	Default
37	MAMPOSTERÍA EN CONCRETO	Default
38	MAMPOSTERÍA EN CONCRETO	Default
39	MAMPOSTERÍA EN CONCRETO	Default
40	MAMPOSTERÍA EN CONCRETO	Default
41	MAMPOSTERÍA EN CONCRETO	Default

Table 6: Area Section Assignments

Area	Section	MatProp
42	MAMPOSTERÍA EN CONCRETO	Default
43	MAMPOSTERÍA EN CONCRETO	Default
44	MAMPOSTERÍA EN CONCRETO	Default
45	MAMPOSTERÍA EN CONCRETO	Default
46	MAMPOSTERÍA EN CONCRETO	Default
47	MAMPOSTERÍA EN CONCRETO	Default
48	MAMPOSTERÍA EN CONCRETO	Default
49	MAMPOSTERÍA EN CONCRETO	Default

2. Material properties

This section provides material property information for materials used in the model.

Table 7: Material Properties 02 - Basic Mechanical Properties

Table 7: Material Properties 02 - Basic Mechanical Properties

Material	UnitWeight KN/m3	UnitMass KN-s2/m4	E1 KN/m2	G12 KN/m2	U12	A1 1/C
420 MPa	7,6973E+01	7,8490E+00	199947978,8			1,1700E-05
A416Gr270	7,6973E+01	7,8490E+00	196500599,9			1,1700E-05
A992Fy50	7,6973E+01	7,8490E+00	199947978,8	76903068,77	0,3	1,1700E-05
f'c = 17 MPa	2,3536E+01	2,4000E+00	19999999,2	8333332,9	0,2	9,9000E-06
f'c = 21 MPa	2,3536E+01	2,4000E+00	21538000,7	8974166,6	0,2	9,9000E-06
MAMPOSTERÍA EN CONCRETO	1,7652E+01	1,8000E+00	1716163,78	686465,51	0,25	1,1700E-05

Table 8: Material Properties 03a - Steel Data

Table 8: Material Properties 03a - Steel Data

Material	Fy KN/m2	Fu KN/m2	FinalSlope
A992Fy50	344737,89	448159,26	-0,1

Table 9: Material Properties 03b - Concrete Data

Table 9: Material Properties 03b - Concrete Data

Material	Fc KN/m2	eFc KN/m2	FinalSlope	EFact	CreepFact	ShrinkFact
	f _c = 17 MPa	17500,	17500,			
Material	Fy KN/m2	Fu KN/m2	FinalSlope			
420 MPa	420000,	525000,	-0,1			

Table 11: Material Properties 03f - Tendon Data

Table 11: Material Properties 03f - Tendon Data

Material	Fy KN/m2	Fu KN/m2	FinalSlope	RelaxFact				
A416Gr270	1689905,16	1689905,16						
SectionName	Material	Shape	t3 m	t2 m	tf m	tw m	t2b m	tfb m

COLUMNA 20X20 MAMPOSTERÍA f_c = 21 MPa
 f_c = 21 MPa

SectionName	RebarMatL	RebarMatC	ReinfConfig	LatReinf	Cover m	NumBarsCirc	NumBars3Dir
COLUMNA 20X20 MAMPOSTERÍA	420 MPa	420 MPa					

SectionName	RebarMatL	RebarMatC	TopCover m	BotCover m
VIGA 20X20 MAMPOSTERÍA	420 MPa	420 MPa	0,0254	0,0254
VIGA 30X30 PÓRTICO	420 MPa	420 MPa	0,06	0,06

Table 14: Frame Section Properties 03 - Concrete Beam, Part 2 of 2

Table 14: Frame Section Properties 03 - Concrete Beam, Part 2 of 2

SectionName	TopLeftArea m2	TopRightArea m2	BotLeftArea m2	BotRightArea m2
VIGA 20X20 MAMPOSTERÍA	0,	0,	0,	0,
VIGA 30X30 PÓRTICO	0,	0,	0,	0,

3.2. Areas

Table 15: Area Section Properties, Part 1 of 3

Table 15: Area Section Properties, Part 1 of 3

Section	Material	AreaType	Type	DrillDOF	Thickness m	BendThick m	F11Mod
MAMPOSTERÍA EN CONCRETO	MAMPOSTERÍA EN CONCRETO	Shell	Shell-Thick	Yes	0,19	0,19	1,

Table 15: Area Section Properties, Part 2 of 3

Table 15: Area Section Properties, Part 2 of 3

Section	F22Mod	F12Mod	M11Mod	M22Mod	M12Mod	V13Mod	V23Mod
MAMPOSTERÍA EN CONCRETO	1,	1,	1,	1,	1,	1,	1,

Table 15: Area Section Properties, Part 3 of 3

Table 15: Area Section Properties, Part 3 of 3

Section	MMod	WMod
MAMPOSTERÍA EN CONCRETO	1,	1,

3.3. Solids

Table 16: Solid Property Definitions

Table 16: Solid Property Definitions

SolidProp	Material	MatAngleA Degrees	MatAngleB Degrees	MatAngleC Degrees
Solid1	f'c = 21 MPa	0,	0,	0,

4. Load patterns

This section provides loading information as applied to the model.

4.1. Definitions

Table 17: Load Pattern Definitions

Table 17: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad	NotBasePat	NotRatio	NotDir
			PESO PROPIO Dead Dead			

LoadPat	Dir	PercentEcc	MaxZ m	MinZ m	C	K	WeightUsed KN	BaseShear KN
			Wi-X	X				
			X					
Case	Type	InitialCond	ModalCase	IncludeSSI	BaseCase	MassSource		
		PESO PROPIO	LinStatic					
		LinStatic						
Case	LoadType	LoadName	LoadSF	TransAccSF m/sec2	RotAccSF rad/sec2			
	PESO PROPIO	Load pattern						
	Load pattern							
Name	Period Sec	Accel	FuncDamp					
UNIFRS	0,	1,	0,05					
UNIFRS	1,	1,						

6. Load combinations

This section provides load combination information.

Table 22: Combination Definitions

Table 22: Combination Definitions

ComboName	ComboType	CaseName	ScaleFactor
DCON1	Linear Add	PESO PROPIO	1,4
DCON2	Linear Add	PESO PROPIO	1,3
DCON2		Wi-X	1,
DCON3	Linear Add	PESO PROPIO	1,3
DCON3		Wi-X	-1,
DCON4	Linear Add	PESO PROPIO	1,3
DCON4		Wi-Y	1,
DCON5	Linear Add	PESO PROPIO	1,3
DCON5		Wi-Y	-1,
DCON6	Linear Add	PESO PROPIO	0,8
DCON6		Wi-X	1,
DCON7	Linear Add	PESO PROPIO	0,8
DCON7		Wi-X	-1,
DCON8	Linear Add	PESO PROPIO	0,8
DCON8		Wi-Y	1,
DCON9	Linear Add	PESO PROPIO	0,8
DCON9		Wi-Y	-1,

7. Structure results

This section provides structure results, including items such as structural periods and base reactions.

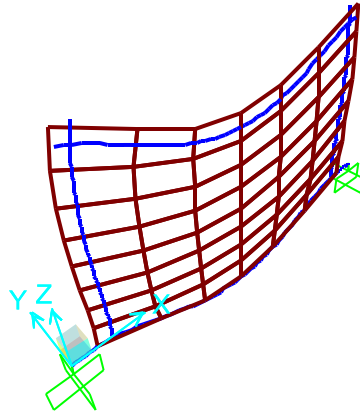


Figure 2: Deformed shape

7.1. Mass summary

Table 23: Assembled Joint Masses, Part 1 of 2

Table 23: Assembled Joint Masses, Part 1 of 2

Joint	MassSource	U1 KN-s2/m	U2 KN-s2/m	U3 KN-s2/m	R1 KN-m-s2	R2 KN-m-s2	R3 KN-m-s2	CenterX m
5	MSSSRC1	0,	0,	0,	0,	0,	0,	0,
6	MSSSRC1	0,	0,	0,	0,	0,	0,	2,85
7	MSSSRC1	7,459E-03	7,459E-03	7,459E-03	0,	0,	0,	0,175
8	MSSSRC1	7,459E-03	7,459E-03	7,459E-03	0,	0,	0,	2,675
13	MSSSRC1	7,459E-03	7,459E-03	7,459E-03	0,	0,	0,	0,175
14	MSSSRC1	7,459E-03	7,459E-03	7,459E-03	0,	0,	0,	2,675
15	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,59167
16	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	0,59167
17	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,175
18	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	0,59167
19	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,175
20	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	0,59167
21	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,175
22	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	0,59167
23	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,175
24	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	0,59167
25	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,175
26	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	0,59167
27	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,175
28	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	0,59167
29	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,175
30	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	0,59167
31	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	1,00833
32	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,00833
33	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,00833
34	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,00833

Table 23: Assembled Joint Masses, Part 1 of 2

Joint	MassSource	U1	U2	U3	R1	R2	R3	CenterX m
		KN-s2/m	KN-s2/m	KN-s2/m	KN-m-s2	KN-m-s2	KN-m-s2	
35	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,00833
36	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,00833
37	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,00833
38	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,00833
39	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	1,00833
40	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	1,425
41	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,425
42	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,425
43	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,425
44	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,425
45	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,425
46	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,425
47	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,425
48	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	1,425
49	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	1,84167
50	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,84167
51	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,84167
52	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,84167
53	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,84167
54	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,84167
55	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,84167
56	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	1,84167
57	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	1,84167
58	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,25833
59	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	2,25833
60	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	2,25833
61	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	2,25833
62	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	2,25833
63	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	2,25833
64	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	2,25833
65	MSSSRC1	2,984E-02	2,984E-02	2,984E-02	0,	0,	0,	2,25833
66	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,25833
67	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,675
68	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,675
69	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,675
70	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,675
71	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,675
72	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,675
73	MSSSRC1	1,492E-02	1,492E-02	1,492E-02	0,	0,	0,	2,675
SumAccelUX	MSSSRC1	1,43	0,	0,	0,	0,	0,	1,425
SumAccelUY	MSSSRC1	0,	1,43	0,	0,	0,	0,	1,425
SumAccelUZ	MSSSRC1	0,	0,	1,43	0,	0,	0,	1,425

Table 23: Assembled Joint Masses, Part 2 of 2

Table 23: Assembled Joint Masses, Part 2 of 2

Joint	MassSource	CenterY	CenterZ
		m	m
5	MSSSRC1	0,	0,
6	MSSSRC1	0,	0,
7	MSSSRC1	0,	0,
8	MSSSRC1	0,	0,
13	MSSSRC1	0,	1,675

Table 23: Assembled Joint Masses, Part 2 of 2

Joint	MassSource	CenterY m	CenterZ m
14	MSSSRC1	0,	1,675
15	MSSSRC1	0,	0,
16	MSSSRC1	0,	0,20938
17	MSSSRC1	0,	0,20938
18	MSSSRC1	0,	0,41875
19	MSSSRC1	0,	0,41875
20	MSSSRC1	0,	0,62813
21	MSSSRC1	0,	0,62813
22	MSSSRC1	0,	0,8375
23	MSSSRC1	0,	0,8375
24	MSSSRC1	0,	1,04688
25	MSSSRC1	0,	1,04688
26	MSSSRC1	0,	1,25625
27	MSSSRC1	0,	1,25625
28	MSSSRC1	0,	1,46563
29	MSSSRC1	0,	1,46563
30	MSSSRC1	0,	1,675
31	MSSSRC1	0,	0,
32	MSSSRC1	0,	0,20938
33	MSSSRC1	0,	0,41875
34	MSSSRC1	0,	0,62813
35	MSSSRC1	0,	0,8375
36	MSSSRC1	0,	1,04688
37	MSSSRC1	0,	1,25625
38	MSSSRC1	0,	1,46563
39	MSSSRC1	0,	1,675
40	MSSSRC1	0,	0,
41	MSSSRC1	0,	0,20938
42	MSSSRC1	0,	0,41875
43	MSSSRC1	0,	0,62813
44	MSSSRC1	0,	0,8375
45	MSSSRC1	0,	1,04688
46	MSSSRC1	0,	1,25625
47	MSSSRC1	0,	1,46563
48	MSSSRC1	0,	1,675
49	MSSSRC1	0,	0,
50	MSSSRC1	0,	0,20938
51	MSSSRC1	0,	0,41875
52	MSSSRC1	0,	0,62813
53	MSSSRC1	0,	0,8375
54	MSSSRC1	0,	1,04688
55	MSSSRC1	0,	1,25625
56	MSSSRC1	0,	1,46563
57	MSSSRC1	0,	1,675
58	MSSSRC1	0,	0,
59	MSSSRC1	0,	0,20938
60	MSSSRC1	0,	0,41875
61	MSSSRC1	0,	0,62813
62	MSSSRC1	0,	0,8375
63	MSSSRC1	0,	1,04688
64	MSSSRC1	0,	1,25625
65	MSSSRC1	0,	1,46563
66	MSSSRC1	0,	1,675
67	MSSSRC1	0,	0,20938

Table 23: Assembled Joint Masses, Part 2 of 2

Joint	MassSource	CenterY m	CenterZ m
68	MSSSRC1	0,	0,41875
69	MSSSRC1	0,	0,62813
70	MSSSRC1	0,	0,8375
71	MSSSRC1	0,	1,04688
72	MSSSRC1	0,	1,25625
73	MSSSRC1	0,	1,46563
SumAccelUX	MSSSRC1	0,	0,8375
SumAccelUY	MSSSRC1	0,	0,8375
SumAccelUZ	MSSSRC1	0,	0,8375

7.2. Base reactions

Table 24: Base Reactions, Part 1 of 2

Table 24: Base Reactions, Part 1 of 2

OutputCase	StepType	StepLabel	GlobalFX KN	GlobalFY KN	GlobalFZ KN	GlobalIMX KN-m	GlobalIMY KN-m
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8. Joint results

This section provides joint results, including items such as displacements and reactions.

Table 25: Joint Displacements, Part 1 of 2

Table 25: Joint Displacements, Part 1 of 2

Joint	OutputCase	StepType	StepLabel	U1 m	U2 m	U3 m	R1 Radians
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5 PESO PROPIO
PESO PROPIO

Joint	OutputCase	StepType	StepLabel	F1 KN	F2 KN	F3 KN	M1 KN-m
-------	------------	----------	-----------	----------	----------	----------	------------

5 PESO PROPIO
PESO PROPIO

Frame	Station m	OutputCase	StepType	StepLabel	P KN	V2 KN	V3 KN
-------	--------------	------------	----------	-----------	---------	----------	----------

3 0,15
0,15

Area	AreaElem	Joint	OutputCase	StepType	StepLabel	F11 KN/m	F22 KN/m
------	----------	-------	------------	----------	-----------	-------------	-------------

2 2
2

Area	AreaElem	Joint	OutputCase	StepType	StepLabel	S11Top KN/m2	S22Top KN/m2
------	----------	-------	------------	----------	-----------	-----------------	-----------------

2 2
2

Section	ObjectType	NumPieces	TotalLength m	TotalWeight KN
---------	------------	-----------	------------------	-------------------

VIGA 30X30 PÓRTICO Frame 1 2,85 0,

Table 24: Base Reactions, Part 1 of 2

OutputCase	StepType	StepLabel	GlobalFX KN	GlobalFY KN	GlobalFZ KN	GlobalIMX KN-m	GlobalIMY KN-m
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PESO PROPIO 8.

Joint results

8. Joint results

This section provides joint results, including items such as displacements and reactions.

Table 25: Joint Displacements, Part 1 of 2

Table 25: Joint Displacements, Part 1 of 2

Joint	OutputCase	StepType	StepLabel	U1 m	U2 m	U3 m	R1 Radians
-------	------------	----------	-----------	---------	---------	---------	---------------

5 PESO PROPIO
 PESO PROPIO

Joint	OutputCase	StepType	StepLabel	F1 KN	F2 KN	F3 KN	M1 KN-m
-------	------------	----------	-----------	----------	----------	----------	------------

5 PESO PROPIO
 PESO PROPIO

Frame	Station m	OutputCase	StepType	StepLabel	P KN	V2 KN	V3 KN
-------	--------------	------------	----------	-----------	---------	----------	----------

3 0,15
 0,15

Area	AreaElem	Joint	OutputCase	StepType	StepLabel	F11 KN/m	F22 KN/m
------	----------	-------	------------	----------	-----------	-------------	-------------

2 2
 2

Area	AreaElem	Joint	OutputCase	StepType	StepLabel	S11Top KN/m2	S22Top KN/m2
------	----------	-------	------------	----------	-----------	-----------------	-----------------

2 2
 2

Section	ObjectType	NumPieces	TotalLength m	TotalWeight KN
---------	------------	-----------	------------------	-------------------

COLUMNA 20X20 MAMPOSTERÍA	Frame	2	3,35	0,
VIGA 20X20 MAMPOSTERÍA	Frame	1	2,5	0,
MAMPOSTERÍA EN CONCRETO	Area			14,044

12. Design preferences

This section provides the design preferences for each type of design, which typically include material reduction factors, framing type, stress ratio limit, deflection limits, and other code specific items.

12.1. Steel design

Table 31: Preferences - Steel Design - AISC 360-10, Part 1 of 5

Table 31: Preferences - Steel Design - AISC 360-10, Part 1 of 5

THDesign	FrameType	PatLLF	SRatioLimit	MaxIter	SDC	SeisCode	SeisLoad	ImpFactor
Envelopes	SMF	0,75	0,95	1	D	Yes	Yes	1,

Table 31: Preferences - Steel Design - AISC 360-10, Part 2 of 5

Table 31: Preferences - Steel Design - AISC 360-10, Part 2 of 5

SystemRho	SystemSds	SystemR	SystemCd	Omega0	Provision	AMethod	SOMethod	SRMethod
1,	0,5	8,	5,5	3,	LRFD	Direct Analysis	General 2nd Order	Tau-b Fixed

Table 31: Preferences - Steel Design - AISC 360-10, Part 3 of 5

Table 31: Preferences - Steel Design - AISC 360-10, Part 3 of 5

NLCoeff	PhiB	PhiC	PhiTY	PhiTF	PhiV	PhiVRolledl	PhiVT	OmegaB
								0,002 0,9
								0,9
THDesign	NumCurves	NumPoints	MinEccen	PatLLF	UFLimit	SeisCat	Rho	Sds
Envelopes	24	11	Yes	0,75	0,95	D	1,	0,5

Table 32: Preferences - Concrete Design - ACI 318-14, Part 2 of 2

Table 32: Preferences - Concrete Design - ACI 318-14, Part 2 of 2

PhiT	PhiCTied	PhiCSpiral	PhiV	PhiVSeismic	PhiVJoint
0,9	0,65	0,75	0,75	0,6	0,85

12.3. Aluminum design

Table 33: Preferences - Aluminum Design - AA-ASD 2000

Table 33: Preferences - Aluminum Design - AA-ASD 2000

FrameType	SRatioLimit	LatFact	UseLatFact
Moment Frame	1,	1,333333	No

12.4. Cold formed design

Table 34: Preferences - Cold Formed Design - AISI-ASD96

Table 34: Preferences - Cold Formed Design - AISI-ASD96

FrameType	SRatioLimit	OmegaBS	OmegaBUS	OmegaBLTB	OmegaVS	OmegaVNS	OmegaT	OmegaC
Braced Frame	1,	1,67	1,67	1,67	1,67	1,5	1,67	1,8

13. Design overwrites

This section provides the design overwrites for each type of design, which are assigned to individual members of the structure.

13.1. Concrete design

Table 35: Overwrites - Concrete Design - ACI 318-14, Part 1 of 2

Table 35: Overwrites - Concrete Design - ACI 318-14, Part 1 of 2

Frame	DesignSect	FrameType	RLLF	XMLMajor	XLMinor	XKMajor
3	Program Determined	Program Determined	0,	0,	0,	
8	Program Determined	Program Determined	0,	0,	0,	0,
9	Program Determined	Program Determined	0,	0,	0,	0,
10	Program Determined	Program Determined	0,	0,	0,	

Table 35: Overwrites - Concrete Design - ACI 318-14, Part 2 of 2

Table 35: Overwrites - Concrete Design - ACI 318-14, Part 2 of 2

Frame	XKMinor	CmMajor	CmMinor	DnsMajor	DnsMinor	DsMajor	DsMinor
3							
8	0,	0,	0,	0,	0,	0,	0,
9	0,	0,	0,	0,	0,	0,	0,
10							

14. Design summary

This section provides the design summary for each type of design, which highlights the controlling demand/capacity ratio and it's associated combination and location in each member.

14.1. Concrete design

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 1 of 3

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 1 of 3

Frame	DesignSect	DesignType	DesignOpt	Status	Location	PMMCombo
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,	DCON1

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 1 of 3

Frame	DesignSect	DesignType	DesignOpt	Status	Location m	PMMCombo
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,20938	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,20938	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,41875	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,41875	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,62813	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,62813	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,8375	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,8375	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,04688	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,04688	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,25625	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,25625	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,46563	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,46563	DCON1
8	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,675	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,20938	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,20938	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,41875	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,41875	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,62813	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,62813	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,8375	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	0,8375	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,04688	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,04688	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,25625	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,25625	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,46563	DCON1
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,46563	DCON1

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 1 of 3

Frame	DesignSect	DesignType	DesignOpt	Status	Location m	PMMCombo
9	COLUMNA 20X20 MAMPOSTERÍA	Column	Design	No Messages	1,675	DCON1

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 2 of 3

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 2 of 3

Frame	PMMArea m2	PMMRatio	VMajCombo	VMajRebar m2/m	VMinCombo	VMinRebar m2/m
8	0,0004		DCON2	0,00004	DCON9	0,000058
8	0,0004		DCON2	0,00004	DCON9	0,000058
8	0,0004		DCON2	0,000023	DCON9	0,000054
8	0,0004		DCON2	0,000023	DCON9	0,000054
8	0,0004		DCON2	0,000012	DCON9	0,000049
8	0,0004		DCON2	0,000012	DCON9	0,000049
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000044
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000044
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000039
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000039
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000034
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000034
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000028
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000028
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000024
8	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000024
9	0,0004		DCON3	0,00004	DCON9	0,000058
9	0,0004		DCON3	0,00004	DCON9	0,000058
9	0,0004		DCON3	0,000023	DCON9	0,000054
9	0,0004		DCON3	0,000023	DCON9	0,000054
9	0,0004		DCON3	0,000012	DCON9	0,000049
9	0,0004		DCON3	0,000012	DCON9	0,000049
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000044
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000044
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000039
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000039
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000034
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000034
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000028
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000028
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000024
9	0,0004		DCON9 (Sp)	0,000011	DCON9	0,000024

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 3 of 3

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 3 of 3

Frame	ErrMsg	WarnMsg
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages

Table 36: Concrete Design 1 - Column Summary Data - ACI 318-14, Part 3 of 3

Frame	ErrMsg	WarnMsg
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
8	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages
9	No Messages	No Messages

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 1 of 3

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 1 of 3

Frame	DesignSect	DesignType	Status	Location m	FTopCombo	FTopArea m2
3	VIGA 30X30 PÓRTICO	Beam	No Messages	0,15	DCON2	0,000028
3	VIGA 30X30 PÓRTICO	Beam	No Messages	0,175	DCON2	0,000027
3	VIGA 30X30 PÓRTICO	Beam	No Messages	0,175	DCON3	0,00002
3	VIGA 30X30 PÓRTICO	Beam	No Messages	0,59167	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	0,59167	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	1,00833	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	1,00833	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	1,425	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	1,425	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	1,84167	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	1,84167	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	2,25833	DCON3 (Sp)	6,911E-06

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 1 of 3

Frame	DesignSect	DesignType	Status	Location m	FTopCombo	FTopArea m2
3	VIGA 30X30 PÓRTICO	Beam	No Messages	2,25833	DCON3 (Sp)	6,911E-06
3	VIGA 30X30 PÓRTICO	Beam	No Messages	2,675	DCON2	0,00002
3	VIGA 30X30 PÓRTICO	Beam	No Messages	2,675	DCON3	0,000027
3	VIGA 30X30 PÓRTICO	Beam	No Messages	2,7	DCON3	0,000028
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,	DCON3	5,091E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,3125	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,41667	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,41667	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,625	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,83333	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,83333	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	0,9375	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	1,25	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	1,25	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	1,5625	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	1,66667	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	1,66667	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	1,875	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	2,08333	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	2,08333	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	2,1875	DCON3 (Sp)	1,271E-06
10	VIGA 20X20 MAMPOSTERÍA	Beam	No Messages	2,5	DCON2	5,091E-06

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 2 of 3

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 2 of 3

Frame	FBotCombo	FBotArea m2	VCombo	VRebar m2/m	TLngCombo	TLngArea m2
3	DCON2 (Sp)	0,000014	DCON9 (Sp)	0,00025	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,00025	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON3	0,00001	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 2 of 3

Frame	FBotCombo	FBotArea m2	VCombo	VRebar m2/m	TLngCombo	TLngArea m2
3	DCON3	9,317E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON2	9,317E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON2	0,00001	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,	DCON9	0,
3	DCON3 (Sp)	6,911E-06	DCON9 (Sp)	0,00025	DCON9	0,
3	DCON3 (Sp)	0,000014	DCON9 (Sp)	0,00025	DCON9	0,
10	DCON3 (Sp)	2,544E-06	DCON9 (Sp)	9,837E-06	DCON9	0,
10	DCON3 (Sp)	1,271E-06	DCON9 (Sp)	9,837E-06	DCON9	0,
10	DCON3 (Sp)	1,271E-06	DCON9 (Sp)	9,837E-06	DCON9	0,
10	DCON2	1,682E-06	DCON9 (Sp)	5,276E-06	DCON9	0,
10	DCON2	1,599E-06	DCON9 (Sp)	5,276E-06	DCON9	0,
10	DCON2	1,516E-06	DCON9 (Sp)	5,276E-06	DCON9	0,
10	DCON1	2,043E-06	DCON9 (Sp)	5,557E-06	DCON9	0,
10	DCON1	1,964E-06	DCON9 (Sp)	5,557E-06	DCON9	0,
10	DCON1	1,725E-06	DCON9 (Sp)	5,557E-06	DCON9	0,
10	DCON1	1,725E-06	DCON9 (Sp)	5,557E-06	DCON9	0,
10	DCON1	1,964E-06	DCON9 (Sp)	5,557E-06	DCON9	0,
10	DCON1	2,043E-06	DCON9 (Sp)	5,557E-06	DCON9	0,
10	DCON3	1,516E-06	DCON9 (Sp)	5,276E-06	DCON9	0,
10	DCON3	1,599E-06	DCON9 (Sp)	5,276E-06	DCON9	0,
10	DCON3	1,682E-06	DCON9 (Sp)	5,276E-06	DCON9	0,
10	DCON3 (Sp)	1,271E-06	DCON9 (Sp)	9,837E-06	DCON9	0,
10	DCON3 (Sp)	1,271E-06	DCON9 (Sp)	9,837E-06	DCON9	0,
10	DCON2 (Sp)	2,544E-06	DCON9 (Sp)	9,837E-06	DCON9	0,

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 3 of 3

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 3 of 3

Frame	TTrnCombo	TTrnRebar m2/m	ErrMsg	WarnMsg
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
3	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages

Table 37: Concrete Design 2 - Beam Summary Data - ACI 318-14, Part 3 of 3

Frame	TTrnCombo	TTrnRebar m2/m	ErrMsg	WarnMsg
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages
10	DCON9	0,	No Messages	No Messages