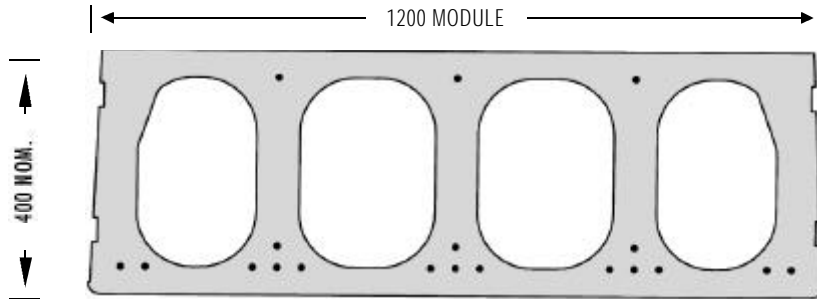


DELTA DOUBLE-STRENGTH FLOORS

DELTA CORE FLOOR PANEL DC 400F



LOAD TABLES

400 Plank Untopped

ALLOWABLE SUPERIMPOSED LIVE LOADS (kPa)

PLANK TYPE	CAPACITY		SPAN (m)																																
	Ø Mu kNm	Ø Vu kN	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0
400.12.12.35	484.3	153.1	52.9*	46.6*	41.6*	37.4*	34.0*	31.1*	28.6*	26.4*	24.5*	22.9*	21.4*	20.0	17.7	15.7	14.0	12.5	11.1	10.0	8.9	8.0	7.2	6.4	5.8	5.1	4.6	4.1	3.6	3.2	2.8	2.5	2.1	1.8	1.5
400.12.12.40	476.9	156.3	54.1*	47.6*	42.5*	38.3*	34.8*	31.8*	29.3*	27.1*	25.1*	23.4*	21.9*	19.7	17.4	15.4	13.7	12.2	10.9	9.8	8.7	7.8	7.0	6.3	5.6	5.0	4.5	4.0	3.5	3.1	2.7	2.4	2.1	1.8	1.4
400.12.10.35	571.0	148.3	51.1*	45.0*	40.1*	36.1*	32.8*	30.0*	27.6*	25.5*	23.7*	22.0*	20.6*	19.3*	18.2*	17.1*	16.2*	15.3*	13.8	12.4	11.2	10.1	9.1	8.3	7.5	6.8	6.1	5.5	5.0	4.5	4.0	3.6	3.2	2.9	2.5
400.12.10.40	562.3	152.1	52.5*	46.3*	41.3*	37.2*	33.7*	30.9*	28.4*	26.2*	24.4*	22.7*	21.2*	19.9*	18.7*	17.6*	16.7*	15.1	13.5	12.2	11.0	9.9	8.9	8.1	7.3	6.6	5.9	5.4	4.8	4.3	3.9	3.5	3.1	2.8	2.4
400.12.14.35	650.6	145.8	50.2*	44.2*	39.4*	35.5*	32.2*	29.4*	27.0*	25.0*	23.2*	21.6*	20.2*	18.9*	17.8*	16.8*	15.8*	15.0*	14.2*	13.5*	12.8*	12.1	10.9	9.9	9.0	8.2	7.5	6.8	6.2	5.6	5.1	4.6	4.2	3.8	3.4
400.12.14.40	640.4	150.3	51.9*	45.7*	40.7*	36.7*	33.3*	30.4*	28.0*	25.9*	24.0*	22.4*	20.9*	19.6*	18.5*	17.4*	16.4*	15.5*	14.7*	14.0*	13.0	11.8	10.7	9.7	8.8	8.0	7.3	6.6	6.0	5.5	5.0	4.5	4.1	3.7	3.3
400.12.16.35	723.6	145.2	50.0*	44.0*	39.2*	35.3*	32.0*	29.3*	26.9*	24.9*	23.1*	21.5*	20.1*	18.8*	17.7*	16.7*	15.7*	14.9*	14.1*	13.4*	12.7*	12.1*	11.6*	11.0*	10.5	9.6	8.7	8.0	7.3	6.7	6.1	5.6	5.1	4.6	4.2
400.12.16.40	711.9	150.3	51.9*	45.7*	40.7*	36.7*	33.3*	30.4*	28.0*	25.9*	24.0*	22.4*	20.9*	19.6*	18.5*	17.4*	16.4*	15.5*	14.7*	14.0*	13.3*	12.7*	12.1*	11.2	10.2	9.4	8.5	7.8	7.1	6.5	6.0	5.4	5.0	4.5	4.1

400 Plank Topped

ALLOWABLE SUPERIMPOSED LIVE LOADS (kPa)

PLANK TYPE	CAPACITY			SPAN (m)																																
	Ø Mu kNm	Ø Vu kN	Ø Vuf kN	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0
400T.12.10.35	530.8	199.6	295.4	69.1*	60.9*	54.3*	49.0*	44.5*	40.7*	37.4*	34.6*	32.1	27.9	24.3	21.3	18.8	16.6	14.7	13.0	11.6	10.3	9.2	8.2*	7.2*	6.4*	5.7*	5.0*	4.4*	3.9*	3.4*	2.9*	2.5*	2.1*	1.7*	1.4*	1.1*
400T.12.10.40	523.5	202.6	291.8	70.2*	61.9*	55.2*	49.8*	45.2*	41.4*	38.1*	35.2*	31.6	27.4	23.9	21.0	18.5	16.3	14.4	12.8	11.4	10.1	9.0	8.0*	7.1*	6.3*	5.5*	4.9*	4.3*	3.8*	3.3*	2.8*	2.4*	2.0*	1.7*	1.3*	1.0*
400T.12.12.35	613.8	198.5	292.4	68.7*	60.6*	54.0*	48.7*	44.2*	40.4*	37.2*	34.4*	32.0*	29.8*	27.9*	25.4	22.5	20.0	17.8	15.8	14.2	12.7	11.3	10.2	9.1	8.2	7.3*	6.6*	5.9*	5.2*	4.6*	4.1*	3.6*	3.2*	2.8*	2.4*	2.0*
400T.12.12.40	605.1	202.1	288.8	70.1*	61.7*	55.1*	49.6*	45.1*	41.3*	38.0*	35.1*	32.6*	30.4*	28.4	25.0	22.1	29.6	17.4	15.5	13.9	12.4	11.1	10.0	8.9	8.0	7.2*	6.4*	5.7*	5.1*	4.5*	4.0*	3.5*	3.1*	2.6*	2.23	1.9*
400T.12.14.35	692.3	197.2	290.3	68.2*	60.1*	53.6*	48.3*	43.9*	40.2*	36.9*	34.2*	31.7*	29.6*	27.7*	26.0*	24.4*	23.0*	20.6	18.5	16.6	14.9	13.4	12.1	10.9	9.8	8.9	8.0	7.2*	6.5*	5.9*	5.3*	4.7*	4.2*	3.7*	3.3*	2.9
400T.12.14.40	682.2	201.5	286.7	69.8*	61.5*	54.9*	49.5*	45.0*	41.1*	37.9*	35.0*	32.5*	30.3*	28.4*	26.6*	25.1*	22.7	20.3	18.1	16.3	14.6	13.1	11.8	10.7	9.6	8.7	7.8	7.1*	6.3*	5.7*	5.1*	4.6*	4.1*	3.6*	3.2*	2.98
400T.12.16.35	766.0	196.1	288.6	67.8*	59.8*	53.3*	48.0*	43.6*	39.9*	36.7*	33.9*	31.5*	29.4*	27.5*	25.8*	24.3*	22.9*	21.6*	20.5*	18.8	17.0	15.4	13.9	12.6	11.4	10.3	9.4	8.5	7.7	7.0	6.3*	5.7*	5.2*	4.6*	4.2*	3.7*
400T.12.16.40	754.4	201.0	285.0	69.7*	61.4*	54.8*	49.3*	44.8*	41.0*	37.7*	34.9*	32.4*	30.2*	28.3*	26.6*	25.0*	23.6*	22.3*	20.6	18.5	16.7	15.0	13.6	12.3	11.2	10.1	9.2	8.3	7.5	6.8	6.2*	5.6*	5.0*	4.5*	4.0*	3.6*

400.12.10.35 Plank depth: Strand diameter: No. of strands: Cover to strands.

Design based on 60MPa compressive strength.

All 400 planks require 3.12.7Ø top strands

35 - 1.5 hour fire rating

40 - 2.0 hour fire rating

T	Denotes 50 mm in-situ topping, 32MPa.
*	Denotes shear strength governs
•	Denotes plank requires propping during construction
	Denotes deflection greater than span/250 (³/L Ž1/250)
	Values to the right of the bold line have span to depth ratio exceeding 45 (L/D > 45)

Section Properties.					
Plank Type	Second Moment of Inertia mm ⁴	Area mm ²	Plank Self Weight kN/m	Depth to centroid from top of plank mm	Minimum Section Modulus mm ³
400	4.81 x 10 ⁹	243,330	5.49	207	23.2 x 10 ⁶
400T	6.98 x 10 ⁹	303,300	6.90	219	30.2 x 10 ⁶

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