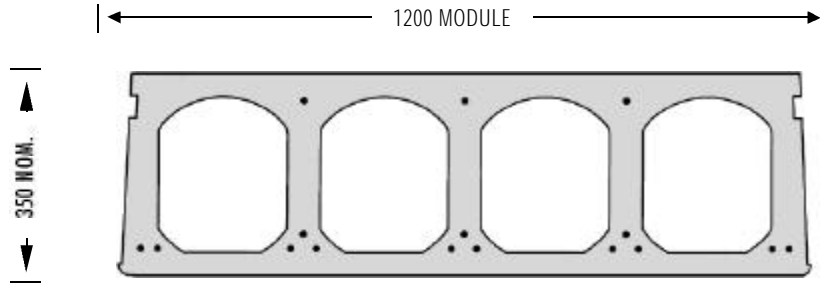


# DELTACORE DOUBLE-STRENGTH FLOORS

## DELTACORE FLOOR PANEL DC 350F



### LOAD TABLES

#### 350 Plank Untopped

##### ALLOWABLE SUPERIMPOSED LIVE LOADS (kPa)

PLANK TYPE	CAPACITY		SPAN (m)																												
	ØMu kNm	ØVu 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
350.12.8.35	335.5	132.6	46.1*	40.7*	36.3*	32.7*	29.7*	27.2*	25.1*	23.2*	20.3	17.6	15.4	13.5	11.9	10.5	9.3	8.3	7.4	6.5	5.8	5.2	4.6	4.1	3.6	3.2	2.8	2.5	2.2	1.9	1.6
350.12.8.40	329.6	134.6	46.9*	41.3*	36.9*	33.3*	30.2*	27.7*	25.5*	23.0*	19.9	17.3	15.1	13.2	11.7	10.3	9.1	8.1	7.2	6.4	5.7	5.0	4.5	4.0	3.5	3.1	2.7	2.4	2.1	1.8	1.5
350.12.10.35	411.0	129.9	45.1*	39.8*	35.5*	32.0*	29.1*	26.6*	24.5*	22.7*	21.1*	19.6*	18.4*	17.2	15.3	13.6	12.1	10.8	9.7	8.7	7.8	7.0	6.3	5.7	5.1	4.6	4.1	3.7	3.3	3.0	2.6
350.12.10.40	403.6	132.5	46.1*	40.7*	36.3*	32.7*	29.7*	27.2*	25.1*	23.2*	21.6*	20.1*	18.8*	16.9	14.9	13.3	11.8	10.6	9.5	8.5	7.6	6.8	6.2	5.5	5.0	4.5	4.0	3.6	3.2	2.9	2.5
350.12.13.35	506.9	130.9	45.5*	40.1*	35.8*	32.3*	29.3*	26.8*	24.7*	22.9*	21.2*	19.8*	18.5*	17.4*	16.4*	15.5*	14.6*	13.9*	12.6	11.4	10.3	9.3	8.5	7.7	7.0	6.4	5.8	5.3	4.8	4.3	3.9
350.12.13.40	497.4	134.2	46.7*	41.3*	36.9*	33.3*	30.2*	27.7*	25.5*	23.6*	21.9*	20.5*	19.2*	18.0*	16.9*	16.0*	15.1*	13.7	12.4	11.2	10.1	9.1	8.3	7.5	6.8	6.2	5.6	5.1	4.7	4.2	3.8

#### 350 Plank Topped

##### ALLOWABLE SUPERIMPOSED LIVE LOADS (kPa)

PLANK TYPE	CAPACITY			SPAN (m)																												
	ØMu kNm	ØVu kN	ØVuf 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
350T.12.8.35	376.9	166.8	259.3	57.8*	50.9*	45.4*	41.0*	37.2*	34.0*	30.2	25.8	22.2	19.2	16.7	14.6	12.8	11.2	9.9	8.7	7.7	6.7	5.9	5.2	4.6	4.0	3.5	3.0	2.6	2.2	1.8	1.5	
350T.12.8.40	371.1	168.4	255.7	58.4*	51.5*	45.9*	41.4*	37.6*	34.4*	29.7	25.3	21.8	18.8	16.4	14.3	12.5	11.0	9.7	8.5	7.5	6.6	5.8	5.1	4.4	3.9	3.4	2.9	2.5	2.1	1.7	1.4	
350T.12.10.35	457.8	164.0	259.3	56.8*	50.0*	44.6*	40.2*	36.5*	33.4*	30.7*	28.4*	26.4*	24.4	21.1	18.6	16.4	14.5	12.8	11.4	10.2	9.0	8.1	7.2	6.4	5.7	5.1	4.5	4.0	3.5	3.1	2.7	2.3
350T.12.10.40	450.6	166.2	255.7	57.6*	50.7*	45.3*	40.8*	37.1*	33.9*	31.2*	28.9*	26.8*	23.7	20.7	18.2	16.0	14.2	12.6	11.2	9.9	8.8	7.9	7.0	6.2	5.5	4.9	4.4	3.8	3.4	3.0	2.6	2.2
350T.12.13.35	559.3	164.4	255.1	56.9*	50.1*	44.7*	40.3*	36.6*	33.5*	30.8*	28.5*	26.5*	24.7*	23.1*	21.7*	20.4*	18.6	16.6	14.8	13.3	11.9	10.7	9.7	8.7	7.8	7.1	6.4	5.7	5.2	4.6	4.1	3.7
350T.12.13.40	549.9	167.3	251.5	58.0*	51.1*	45.6*	41.1*	37.4*	34.2*	31.5*	29.1*	27.0*	25.2*	23.6*	22.1*	20.5	18.2	16.2	14.5	13.0	11.7	10.5	9.4	8.5	7.6	6.9	6.2	5.6	5.0	4.5	4.0	3.6

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

Design based on 60MPa compressive strength.

All 350 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 ( $\frac{3}{L} \geq \frac{1}{250}$ )

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 <sup>4</sup>	Area mm <sup>2</sup>	Plank Self Weight kN/m	Depth to centroid from top of plank mm	Minimum Section Modulus mm <sup>3</sup>
350	3.05 x 10 <sup>9</sup>	191,300	4.32	171	17 x 10 <sup>6</sup>
350T	4.53 x 10 <sup>9</sup>	251,300	5.62	182	21 x 10 <sup>6</sup>

This information contained within this brochure is intended only to facilitate preliminary design and budget costing. Whilst every endeavour has been made to ensure the accuracy of this information, no warranty is provided for it by Delta Corporation or its agents. Detailed design must be carried out by suitably qualified people taking account of specific project requirements for which the product is intended.