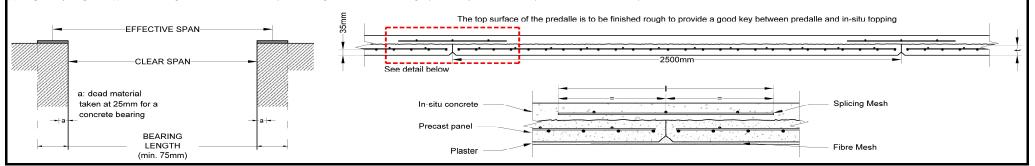
PRESTRESSED PREDALLES LOAD TABLE (UNIFORM LOADS - NOT FOR HEAVY WHEEL LOADS)

Predalles Safe Load Table simply supported - min bearing 75mm - 1hr fire resistance															24									
Predalles code	Total depth in mm/No. 3X3 Cables	Cables- area 21.2mm²	Predalles C45 thickness	in situ concrete C25 thickness	Total depth mm	Self weight incl. finishes	Splicing Mesh	Length of Splicing Mesh (I) (between joints)	Total Embodied Carbon (A1 - A5) (on plan)	Loading: Maximum effective simply supported span (m) for unfactored superimposed load (kN/m²) shown excluding self-weight + 10cm finishes (2kN/m²). Safe loads in bold are dictated by deflection criteria, but still not sufficient to limit cracking for brittle (masonry) partitions.														
		Ø 6.5mm	mm	mm	mm	kN/m²	/	mm	kgCO₂e/m²	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
70/125/26		26	70	55	125	5.07	A 98	600	44	5.87	5.76	5.62	5.43	5.21	4.94	2.51								
70/125/32		32	70	55	125	5.07	A 98	600	45	5.87	5.76	5.62	5.43	5.21	4.94	3.60								
70/125/36		36	70	55	125	5.07	A 98	600	45	5.87	5.76	5.62	5.43	5.21	4.94	4.31	0.77							
70/150/32		32	70	80	150	5.67	A 142	750	52	9.22	9.07	8.86	8.59	8.27	7.88	7.53	4.59	0.91						
70/150/36		36	70	80	150	5.67	A 142	750	52	9.22	9.07	8.86	8.59	8.27	7.88	7.53	5.43	1.59						
70/1	•	32	70	105	175	6.2	A 193	850	59	12.75	12.56	12.29	11.94	11.51	11.01	10.42	8.15	4.97	1.17					
70/1		36	70	105	175	6.2	A 193	850	59	12.75	12.56	12.29	11.94	11.51	11.01	10.42	9.52	5.87	1.91					
100/2	.00/36	36	100	100	200	6.8	A 193	850	69	15.13	14.99	14.80	14.55	14.24	13.88	13.46	12.56	8.81	5.84	1.86				
100/2		48	100	100	200	6.8	A 193	850	70	15.13	14.99	14.80	14.55	14.24	13.88	13.46	12.98	12.45	8.60	4.18	0.90			
100/2	•	36	100	125	225	7.5	A 193	850	76	18.67	18.50	18.25	17.94	17.55	17.10	16.58	15.75	11.28	7.97	5.45	1.56			
100/2		48	100	125	225	7.5	A 193	850	77	18.67	18.50	18.25	17.94	17.55	17.10	16.58	15.99	15.33	11.85	8.27	3.97			
100/2		36	100	150	250	8	A 252	1000	83	22.34	22.14	21.84	21.47	21.01	20.47	19.84	19.09	13.86	9.99	7.05	4.75	1.07		
100/2		48	100	150	250	8	A 252	1000	84	22.34	22.14	21.84	21.47	21.01	20.47	19.84	19.13	18.34	14.45	10.79	7.68	3.45		
100/2	•	36	100	175	275	8.6	A 252	1000	90	26.16	25.91	25.57	25.13	24.60	23.97	23.24	22.58	16.56	12.11	8.73	6.09	4.00		
100/2		48	100	175	275	8.6	A 252	1000	92	26.16	25.91	25.57	25.13	24.60	23.97	23.24	22.41	21.49	17.14	12.95	9.69	6.91	2.79	
100/3		36	100	200	300	9.3	A 252	1000	97	30.10	29.82	29.43	28.93	28.32	27.60	26.77	25.82	19.38	14.33	10.49	7.49	5.12	3.21	
100/3	00/48	48	100	200	300	9.3	A 252	1000	99	30.10	29.82	29.43	28.93	28.32	27.60	26.77	25.82	24.77	19.93	15.19	11.51	8.58	5.98	2.00
No of Props										0	1	1	1	1	1	1	1	2	2	2	2	3	3	3

Notes to Periti:

- (A) Load tables conforming to MSA EN 1992-1-1 Eurocode 2: Design of concrete structures Part 1-1: General rules and rules for buildings, with both the safe load values satisfying the serviceability limit state (SLS)
- (B) HANDLING AND STORAGE: Predalles should be lifted by multiple hooks, which should be self-balancing at maximum 500mm from corners. Slab units should be stacked on bearers on firm level ground. Stacks should not be more than 10 units high and each layer seperated by bearers at not more than two meters intervals.
- (C) ERECTION/SEQUENCE OF OPERATIONS: Predalles slabs should be lifted from transport directly onto prepared supports. Never walk on unsupported slabs. Once the slabs are in position, any loose reinforcement required by the design, including trimming of holes, continuity reinforcement, top reinforcement over supports etc. is placed together with the provision of longitudinal and transverse ties to ensure compliance with stability requirements of structual eurocode 1. Site in-situ concrete is spread, compacted in position, and cured accordingly. Temporary supports are removed between 7-14 days after the in-situ concrete is poured. No additional loading is to be imposed on the cast slab prior to the passage of 28 days.
- (D) Embodied carbon of the precast elements alone (A1 A3) are as follows: 70/26: 28kgCO₂e/m², 70/32: 29kgCO₂e/m², 70/36: 30kgCO₂e/m², 100/36: 40kgCO₂e/m² and 100/48: 42kgCO₂e/m²
- (E) Embodied carbon is measured per square meter on plan and includes for the total buildup (incl. in-situ concrete), as outlined in the table. (A1 A5)
- (F) Length of splicing mesh (I) shows the length of mesh between each panel. See figure below. When ceiling is plastered, joint underneath panels is to be reinforced by a fibre mesh.





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