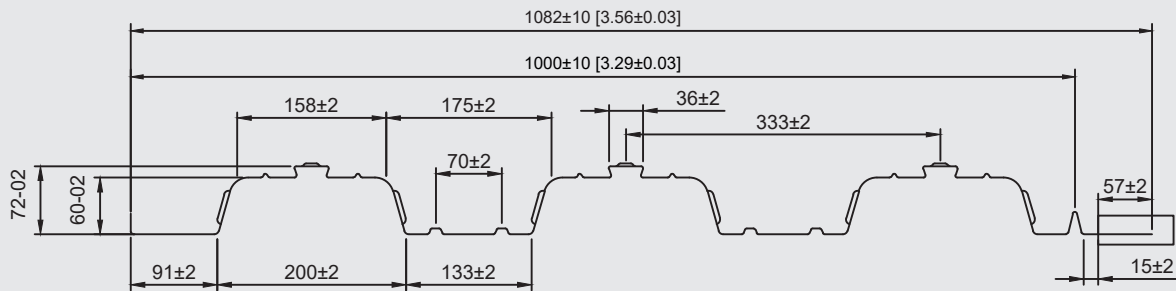




HELPING YOU GO FROM BUILD TO BUILT
IN NO TIME

BUILD-DECK 60

PRODUCTS DATA SHEET - FLOOR DECK - PROFILE DETAILS & SECTIONAL PROPERTIES



BENEFITS

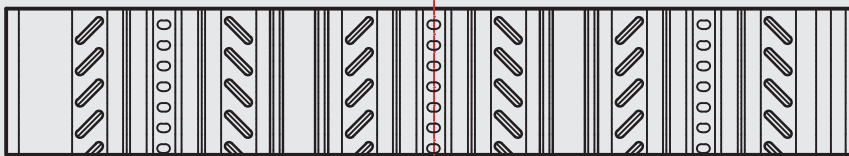
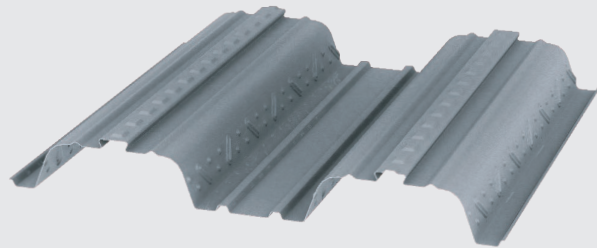
- REDUCED CONCRETE VOLUME
- ENHANCED SPEED OF INSTALLATION DUE TO THE 1M COVER WIDTH
- TROUGH STIFFENERS POSITIONED TO ENSURE CENTRAL STUD POSITION

GAUGES

- 0.9MM
- 1.0MM
- 1.2MM

SPECIFICATION

- 1000MM COVER WIDTH
- 60MM DEEP (72MM TO TOP RE-ENTRANT)



EMBOSSING DETAIL



ASSEMBLY VIEW

PROFILE PROPERTIES

NORMAL THICKNESS - MM	DESIGN THICKNESS (BARE STEEL) - MM	WEIGHT OF PROFILE - KG/M ²	WEIGHT OF PROFILE - KN/M ²	HEIGHT OF NEUTRAL AXIS - MM	AREA OF STEEL - MM ² /M	MOMENT OF INERTIA - CM ⁴ /M
0.9	0.86	10.03	0.098	33.6	1216	93.5
1.0	0.96	11.12	0.109	33.6	1355	102.1
1.2	1.16	13.33	0.131	33.7	1633	119.8

SECTION PROPERTIES ARE CALCULATED & ASSISTED BY TESTING IN ACCORDANCE WITH EUROCODE 3.

AM/NS
INDIA

FIRE INSULATION THICKNESS

MINIMUM INSULATION THICKNESS (X) OF CONCRETE (MM)

FIRE RATING	NWC	LWC
1.0 HOUR	60	60
1.5 HOUR	70	70
2.0 HOUR	80	80
3.0 HOUR	115	100
4.0 HOUR	130	115



THE IMAGE & TABLE ABOVE DETAILS THE MINIMUM INSULATION THICKNESS REQUIRED TO SUIT FIRE DESIGN CRITERIA IN ACCORDANCE WITH SCI PN005C-GB OR BS5950 PART 8.

CONCRETE VOLUME & WEIGHT

SLAB DEPTH (MM)	VOLUME OF CONCRETE (M ³ /M ²)	WEIGHT OF CONCRETE (NORMAL WEIGHT)		WEIGHT OF CONCRETE (LIGHT WEIGHT)	
		WET (KN/M ²)	DRY (KN/M ²)	WET (KN/M ²)	DRY (KN/M ²)
130	0.096	2.26	2.21	1.79	1.70
150	0.116	2.73	2.67	2.16	2.05
200	0.166	3.91	3.83	3.09	2.93

DEFLECTION - THIS TABLE IS BASED ON CONCRETE POURED TO A CONSTANT THICKNESS & DOES NOT TAKE ACCOUNT FOR DEFLECTION OF DECKING OR SUPPORTING BEAMS (AS A GUIDE TO ACCOUNT FOR THE DEFLECTION OF THE DECKING, A CONCRETE VOLUME OF SPAN/250 SHOULD BE ADDED TO THE FIGURES INDICATED). CONCRETE WEIGHT - THESE TABLES INDICATE CONCRETE WEIGHT ONLY & DO NOT INCLUDE THE WEIGHT OF DECKING OR REINFORCEMENT. CONCRETE WEIGHTS ARE BASED ON CONCRETE DENSITIES SPECIFIED IN BS EN 1991-1-1 AS FOLLOWS: NORMAL WEIGHT CONCRETE - 2550KG/M³ (WET) & 2450KG/M³ (DRY). LIGHTWEIGHT CONCRETE - 2050KG/M³ (WET) & 1950KG/M³ (DRY).

LOAD TABLES (EUROCODE)

STEEL GRADE S350 – NORMAL WEIGHT CONCRETE

TOTAL UNFACTORED APPLIED LOAD (KN/M²) MAXIMUM PERMISSIBLE SPAN (M)

SPAN CONDITION	FIRE RATING (HOURS)	SLAB DEPTH (MM)	MESH	0.9MM GAUGE				1.0MM GAUGE				1.2MM GAUGE			
				3.5	5.0	7.5	10.0	3.5	5.0	7.5	10.0	3.5	5.0	7.5	10.0
SINGLE*	1.0	130	A142	3.125	3.125	2.796	2.519	3.383	3.383	2.870	2.585	3.746	3.746	3.011	2.711
		150	A193	3.006	3.006	3.006	2.843	3.203	3.203	3.203	2.914	3.562	3.562	3.562	3.046
		200	A393	2.688	2.688	2.688	2.688	2.866	2.866	2.866	2.866	3.219	3.219	3.219	3.219
	2.0	150	A193	3.006	3.006	2.366	2.145	3.203	3.203	2.414	2.188	3.562	3.562	2.503	2.269
		170	A252	2.883	2.883	2.649	2.410	3.054	3.054	2.695	2.453	3.407	3.407	2.788	2.531
		200	A393	2.688	2.688	2.688	2.688	2.866	2.866	2.866	2.866	3.219	3.219	3.219	3.219
DOUBLE	1.0	130	A142	3.455	3.455	2.796	2.519	3.788	3.788	2.870	2.585	4.238	4.238	3.011	2.711
		150	A193	3.230	3.230	3.141	2.843	3.546	3.546	3.219	2.914	3.996	3.996	3.366	3.046
		200	A393	2.804	2.804	2.804	2.804	3.085	3.085	3.085	3.085	3.602	3.602	3.602	3.602
	2.0	150	A193	3.230	3.116	2.366	2.145	3.546	3.180	2.414	2.188	3.996	3.296	2.503	2.269
		170	A252	3.040	3.040	2.649	2.410	3.341	3.341	2.695	2.453	3.895	3.608	2.788	2.531
		200	A393	2.804	2.804	2.804	2.804	3.085	3.085	3.085	3.085	3.602	3.602	3.407	3.116
DOUBLE	1.0	130	HE 1/50*	3.455	3.455	3.130	2.825	3.788	3.788	3.200	2.880	4.238	4.238	3.320	3.000
		150	HE 1/50*	3.230	3.230	3.230	3.230	3.546	3.546	3.546	3.290	3.996	3.996	3.750	3.400
		200	HE 1/50*	2.804	2.804	2.804	2.804	3.085	3.085	3.085	3.085	3.602	3.602	3.602	3.602
	2.0	150	HE 1/50*	3.230	3.230	2.710	2.455	3.340	3.340	2.550	2.480	3.996	3.730	2.830	2.550
		170	HE 1/50*	3.040	3.040	3.040	2.815	3.341	3.341	3.130	2.850	3.895	3.895	3.310	2.920
		200	HE 1/50*	2.804	2.804	2.804	2.804	3.085	3.085	3.085	3.085	3.602	3.602	3.610	3.440

FIGURES SHOWN IN RED ARE GOVERNED BY THE NORMAL (COMPOSITE) OR FIRE STAGES, GREATER SPANS CAN BE ACHIEVED BY INCREASING REINFORCEMENT OR FIBRE TYPE/DOSAGE.

