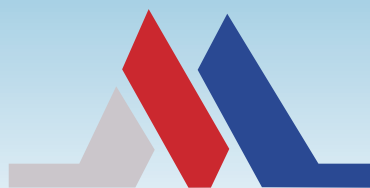


MP-STEEL DECK

Composite Decking Profile For Faster Construction



www.mpil.in

MULTICOLOR PROJECTS (INDIA) LTD.

Engineering the Earth

Multicolor Projects (India) Ltd., an ISO 9001:2000

accredited company, specializes in manufacture, supply and erection of (PEB) pre-engineered steel buildings and pre-fabricated steel buildings. MPIL pre-engineered buildings are custom-designed to meet exact requirements using steel structures, plate welded H/I beams, profiled sheets, "Z" and "C" sections, steel decking sheets, single skin and insulated sandwich panels and other building accessories such as flashings, gutters, ridges, doors, windows and louvers.

MP-Steel Deck

MP-Steel Deck is a type of steel decking profile – one of its kind in India – at par with international standards of steel design and strength. This decking profile can be used as a composite floor system or as a permanent form work. It binds with concrete slab and together forms a part of the floor structure. The interlocking between the concrete and the floor deck occurs by a system of embossment and ribs that are built into the deck, creating a reinforced concert slab. This fast and simple installation using high strength product, gives immediate access to a working platform of permanent form and positive reinforcement.



Advantages of MP-Steel Deck

- Light Weight – reduces weight of concrete floor by almost 50%
- Economical – does not require additional support; reduces use of concrete; reduces slab thickness; savings in reinforcement steel
- Time Saving – easy and rapid installation; no major reinforcement required
- Multi-faceted – flooring, roofing or cladding, temporary or permanent shuttering, working platform during construction
- Multi-use – widely used in multiple-storey buildings, shopping malls, super markets, storage facilities, mezzanines, bridges, walkways, platforms, warehouses, industrial sheds, control rooms
- Aesthetic appeal – Offers internal polished look; available in variety of colors; no need for internal plastering of roofs

Technical Specifications

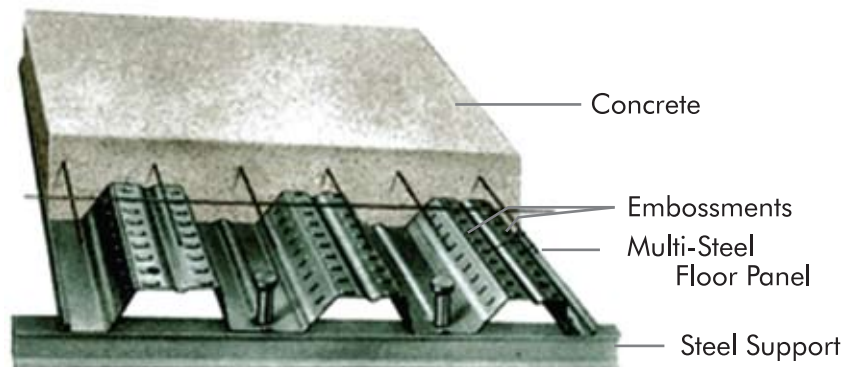
Profile: 51 mm deep crest at 240 mm distance;
720 mm cover width

Thickness Range: 0.60 mm to 2.00 mm

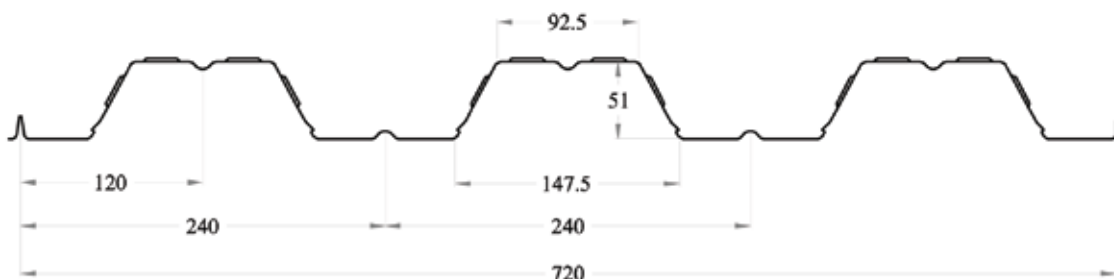
Length: Upto 12000 mm

Material: Galvanised (GI), Color Coated Galvanized (PPGI) steel of IS:513, IS:277, IS:14246 or AS:1397-G300-Z275;

Type: Bare, Primer coated, Galvanized, Pre-painted.



MP-DECKING PROFILE



All dimensions are in mm

PHYSICAL PROPERTIES

SN	t (mm)	Area (mm ²)	Weight (kg/m)	I _{xx} (cm ⁴)	Z _{xx} (cm ³)
1	0.60	6.37	5.00	25.63	10.05
2	0.63	6.69	5.25	26.91	10.55
3	0.80	8.50	6.67	34.18	13.40
4	1.00	10.62	8.34	42.72	16.75
5	1.25	13.28	10.42	53.40	20.94
6	1.60	16.99	13.34	68.35	26.81
7	2.00	21.24	16.67	85.44	33.51

ALLOWABLE LOAD (kg/m²): Yield Stress of Material = 2400 kg/cm²

SN	t (mm)	Span (m)										
		1	1.2	1.4	1.5	1.6	1.75	2	2.5	3	3.5	4
1	0.60	2657	1845	1355	1181	1038	867	664	425	270	170	114
2	0.63	2790	1937	1423	1240	1090	911	697	446	283	179	120
3	0.80	3542	2460	1807	1574	1384	1157	886	567	360	227	152
4	1.00	4428	3075	2259	1968	1730	1446	1107	708	450	283	190
5	1.25	5535	3844	2824	2460	2162	1807	1384	886	562	354	237
6	1.60	7084	4920	3615	3149	2767	2313	1771	1134	720	453	304
7	2.00	8856	6150	4518	3936	3459	2892	2214	1417	900	567	380

ALLOWABLE LOAD (kg/m²): Yield Stress of Material = 3400 kg/cm²

SN	t (mm)	Span (m)										
		1	1.2	1.4	1.5	1.6	1.75	2	2.5	3	3.5	4
1	0.60	3759	2611	1918	1671	1469	1228	911	467	270	170	114
2	0.63	3947	2741	2014	1754	1542	1289	957	490	283	179	120
3	0.80	5013	3481	2557	2228	1958	1637	1215	622	360	227	152
4	1.00	6266	4351	3197	2785	2448	2046	1519	778	450	283	190
5	1.25	7832	5439	3996	3481	3059	2557	1898	972	562	354	237
6	1.60	10025	6962	5115	4456	3916	3274	2430	1244	720	453	304
7	2.00	12531	8702	6394	5570	4895	4092	3037	1555	900	567	380

Young's Modulus = 200 GPa.

Deflection Limit = Span/150 (IS 800 - 2007).

The sheets should span over minimum four supports.

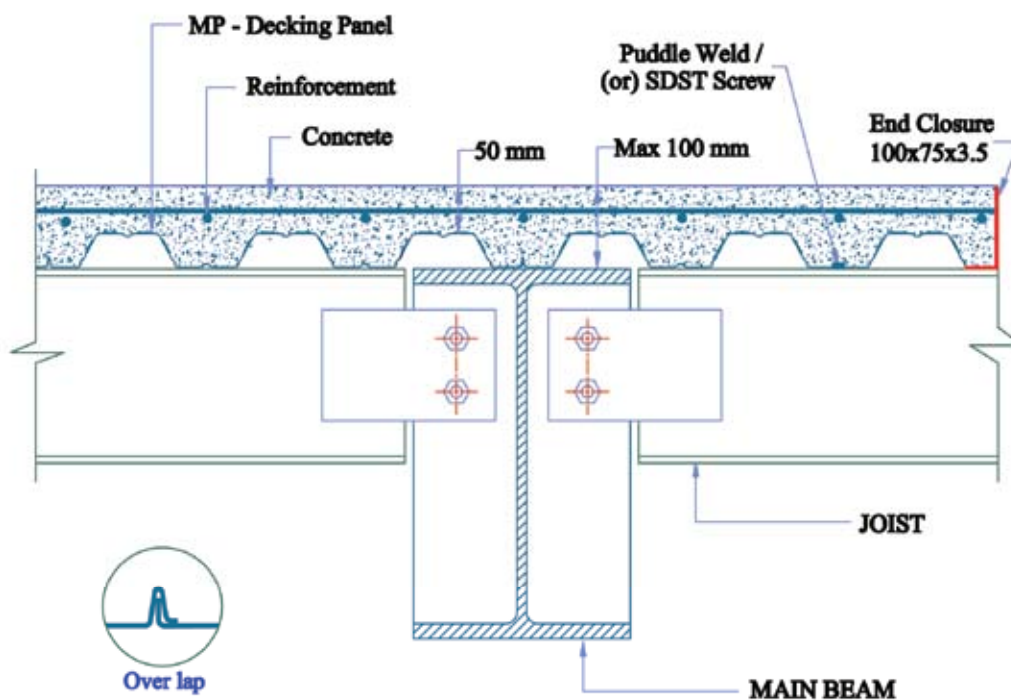
The load shall be multiplied by 0.80 if the sheets are spanning over 2 or 3 supports.

*Data is approved and certified by IIT, Mumbai



Typical Fixing Arrangement Details

MEZZANINE FLOOR DIFFICAL DETAIL



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