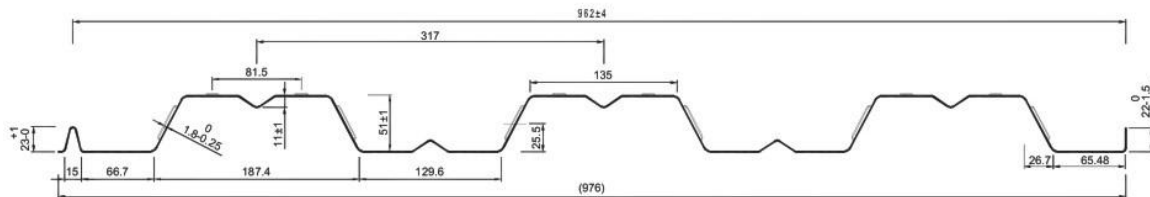


Stalwart Deck Sheets

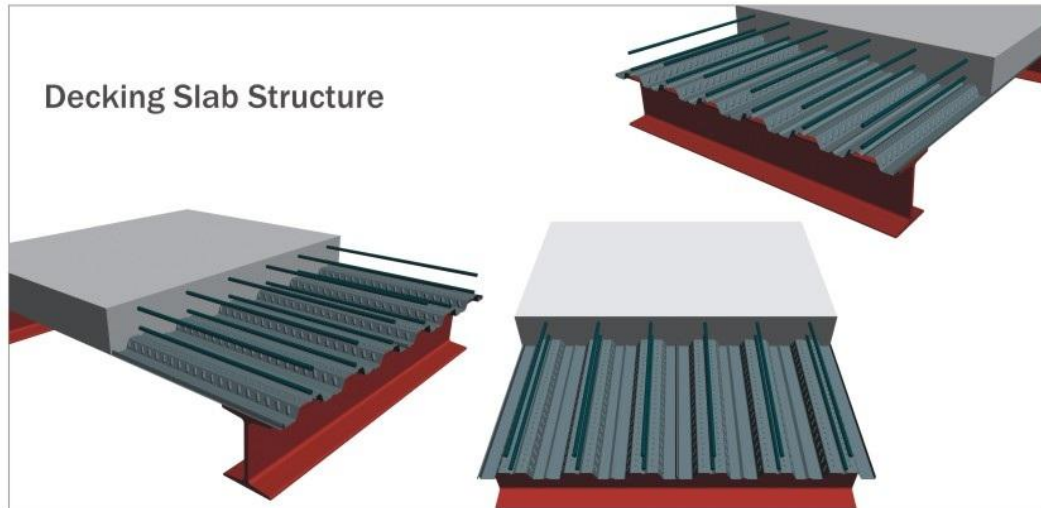


Stalwart Deck

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

ADVANTAGES

- **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, malls, markets, storage facilities mezzanines, bridges, walkways, platforms, warehouse, industrial sheds, control rooms.
- **Aesthetic Appeal** - Offers internal polished look, available in variety of colors, no need for internal plastering of roofs.



Decking Slab Structure

No.	Thickness (mm)	Unit Wt. (kg/m ²)	Section Modulus(cm ³)	Moment of Inertia(cm ⁴)
1	0.63	6.56	13.41	39.03
2	0.70	7.36	15.68	43.09
3	0.80	8.34	17.92	48.94
4	1.00	10.30	22.30	60.72
5	1.25	12.75	27.90	75.16

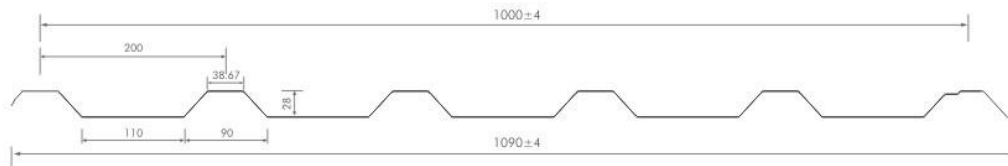
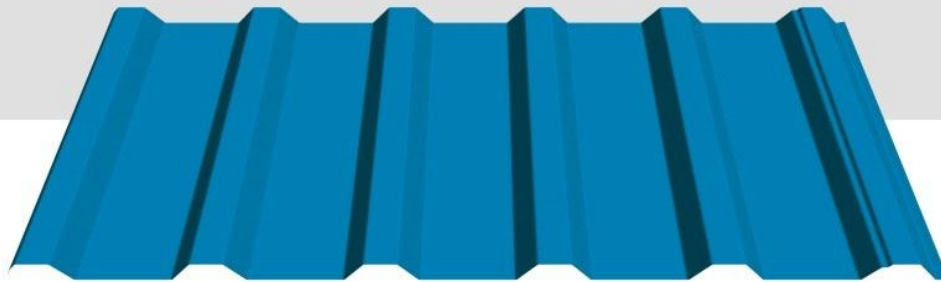
No.	Thickness (mm)	Allowable Loads in kg/m ² for 240 Mpa Yield Strength of Material								
		Span in Meters								
		1.0	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
1	0.63	1970	1261	876	643	493	389	315	261	219
2	0.70	2304	1475	1024	752	576	455	369	305	256
3	0.80	2633	1685	1170	860	658	520	421	348	293
4	1.00	3277	2097	1456	1070	819	647	524	433	364
5	1.25	4100	2624	1822	1339	1025	810	656	452	456

No.	Thickness (mm)	Allowable Loads in kg/m ² for 340 Mpa Yield Strength of Material								
		Span in Meters								
		1.0	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
1	0.63	2776	1777	1234	906	694	548	444	367	308
2	0.70	3246	2077	1443	1060	811	641	519	429	361
3	0.80	3709	2374	1649	1211	927	733	594	491	412
4	1.00	4616	2954	2052	1507	1154	912	739	610	513
5	1.25	5775	3696	2567	1886	1444	1141	924	764	642

Benefits :

- Ensuring adequate composite action.
- Saves cost on concrete and reinforcement
- Installation combined with safety.
- Brings greater economy and design freedom.
- Endure capacities for greater strength and less deflection.
- Corrosion resistance provides long life.

Stalwart 1000



APPLICATION

Classic 1000 Trapezoidal Profiles are used for widely diverse applications. Due to Large range of geometric designs, they offer variety of architectural possibility. Classic 1000 Trapezoidal Profiles are supplied not only in different section and thickness but also various lengths and required dimensions. This profile is suitable for Roof and Wall Panels.

Classic 1000 Trapezoidal Profiles is for industry or trade, Stadia , Cold Storage, Ware House, Airport Hanger, Railway station, Bus Stop, Under construction Building Boundaries & Architectural installation etc.



MATERIAL SPECIFICATIONS

PRE PAINTED GALVANISED IRON (PPGI)

- Material Confirm to : IS 277, IS 513 & IS 14246
- Coating On : Hot Dip Galvanised Iron
- Thickness : Standard Thickness of 0.50mm TCT
- Zn Coating (GSM) : Zn 120
- Paint Systems : Regular Modified Polyester Paint (RMP)
Optional (SMP & PVdF)
- Mpa : 245 Mpa
- Primer Service Coat : 5µ microns Epoxy /
- Top Coat (Exposed Surface) : 18µ to 20µ
- Bottom Coat : 5µ to 7µ

GALVALUME MILL FINISH (BARE GALVALUME)

- Material Confirm to : AS 1397
- Coating On : Cold Rolled Steel
- Thickness : Standard Thickness of 0.47mm TCT
- AL-Zn Coating (GSM) : AZ 150
- Mpa : 245 / 350 / 550 Mpa

PRE-PAINTED GALVALUME STEEL SHEETS (PPGL)

- Material Confirm to : AS 1397
- Coating On : Galvalume
- Thickness : Standard Thickness of 0.50mm TCT
- AL-Zn Coating (GSM) : AZ 150
- Paint Systems : Regular Modified Polyester Paint (RMP)
Optional (SMP & PVdF)
- Mpa : 245 / 350 / 550 Mpa
- Primer Service Coat : 5µ microns Epoxy /
- Top Coat (Exposed Surface) : 18µ to 20µ
- Bottom Coat : 5µ to 7µ

AVAILABLE LENGTH

- Supplied in maximum length up to 12 mtrs.

CLASSIC 1000 : Is also available in Aluminium Mill Finish / Colour Coated.
Thickness Range : 0.71mm to 1.20mm

CURVED SHEET

Curved sheets are available from Classic 1000 profile, Curving through computerised, PLC controlled crimping machine. The minimum radius of curve is 500 mm, start lead is 50mm & end lead is 350mm. The minimum length of curved is 790mm, thereby making length of curved sheet possible as 1190mm, Length restrictions apply to curved sheets. Curved sheet in high tensile metal is supplied at customers risk.

■ COLOUR SHADES

