

Anti-Skid Walkway Planks

IS 3696 · IS 4014 · IS 2062 · EN ISO 1461

Pre Galvanized

Anti-Slip | With Stiffeners

Prime Steeltech (I) Pvt. Ltd.

+91 93931 61504

IS 2062 E250

HDG · Min 45 µm

Stiffeners @ 500 mm

Span/60 Deflection

4× Safety Factor

Prime Steeltech manufactures a complete range of hot-dip galvanized mild-steel Anti-Skid Walkway Planks for industrial, construction and infrastructure projects. Engineered for repeated assembly / dismantling and compatible with all major scaffolding systems including cuplock, tube-and-coupler, frame and ringlock. Internal transverse stiffeners at 500 mm centers provide superior load distribution and deflection control throughout the full range of standard lengths.

STEEL GRADE	IS 2062 E250
DECK SHEET	14/16 Gauge – 2 mm / 1.6 mm
GALVANISING	Min 45 µm zinc · EN ISO 1461
WELDING	MIG/MAG · IS 816
SERVICE LIFE	8-15 years outdoor/industrial

Anti-Skid Surface Options



Antiskid Dimple Plate

Standard on all planks

Hemispherical dimples cold-pressed into the deck with round perforations between them. Omni-directional grip; perforations drain water and debris away. Dimples are pressed, not cut — full deck section strength is preserved.



Diamond Checker Plate

Available on request

Diamond-pattern embossed anti-slip surface formed on galvanized steel decking. Provides excellent slip resistance in both longitudinal and transverse directions, making it suitable for scaffold platforms, stair towers, access walkways, and high-traffic industrial applications. The solid deck design offers improved debris retention while maintaining high load-carrying capacity and durability.



Checker Plate

Available on request

Parallel raised ribs with linear drainage channels between bars. Suited to heavy-duty industrial platforms, oil & gas plants and food-processing walkways.

Internal Stiffeners — Design & Function

Without reinforcement, thin walkway plates deflect excessively under platform live loads (250 kg/m² UDL or 100-150 kg point load, whichever governs). All Prime Steeltech planks are fitted with IS 2062 E250 stiffeners — flat bar, angle, U-section or Z-section — MIG/MAG fillet-welded to the deck underside per IS 816, subdividing the span into stiffer bays.

TRANSVERSE STIFFENERS (Across the length)	Run perpendicular to walking direction. Spaced at 500 mm c/c on all planks. Shortens effective span, controls primary bending and deflection.	DESIGN CHECKS	Bending stress, shear at supports, and deflection — verified for both UDL and point load. Deflection capped at Span/60 (IS 3696-1987) or 10-15 mm overall.
LONGITUDINAL STIFFENERS (Along the length)	Run parallel to walking direction. Added when plank width exceeds ~400 mm — splits the width into two narrower compliant bays to control cross-bending.	WELD SPEC	MIG/MAG fillet, 4 mm leg length both sides, full length. Weld quality per IS 816.
END PLATE	Placed within 50 mm of each plank end to protect the hook / end-fitting zone against localized crushing at the support point.	GALVANISING	All stiffener welds galvanized post-assembly — min 45 µm zinc (EN ISO 1461 · IS 4759). Field welding is NOT permitted.

Standard Sizes

Length	Width	Thickness	Edge Treatment
3000 mm	300 / 280 / 240 mm	2 mm / 1.6 mm	Double/Triple Bent Edges, Fully Welded Corners
2500 mm	300 / 280 / 240 mm	2 mm / 1.6 mm	Double/Triple Bent Edges, Fully Welded Corners
2000 mm	300 / 280 / 240 mm	2 mm / 1.6 mm	Double/Triple Bent Edges, Fully Welded Corners
1250 mm	300 / 280 / 240 mm	2 mm / 1.6 mm	Double/Triple Bent Edges, Fully Welded Corners

★ Custom lengths available on request.

Structural Design Parameters

Safety Factor Min 4× intended load	Deflection Limit Span / 60 service load	Stiffener Spacing 500 mm c/c transverse
Max Plank Gap 25 mm	Overhang 50 mm min 150 mm max	Hook / End Fitting Fully seated on ledger

Safety Guidelines

■ SAFETY NOTICE

- Never exceed the Safe Working Load (SWL) for the plank and span combination.
- Guardrails min 1 000 mm height and toe boards min 150 mm must be installed before access at height.
- Scaffold erection, alteration and dismantling by trained personnel only (IS 3696).
- Conduct a project-specific risk assessment before permitting personnel access.

1. Inspect every plank before installation — remove cracked, bent or heavily corroded units immediately.
2. Ensure hooks / end fittings are fully seated on ledger or transom before personnel access.
3. Max platform gap between adjacent planks: 25 mm. Use infill strips where required.
4. Overhang: min 50 mm, max 150 mm. Secure planks against uplift in exposed locations.
5. Do not mix plank types / sizes within the same bay without written engineering approval.
6. Anti-skid surface must be free of mud, oil, ice or loose debris at all times.
7. Display inspection tags (load class, date, inspector name) at each access point.
8. Field welding of stiffeners is NOT permitted — return damaged planks for factory repair.

Inspection & Maintenance

PRE-USE	Check welds, hooks & deck for cracks, deformation or corrosion before every use.	ZINC COATING	Inspect annually; re-galvanize if coating falls below 25 µm.
HOOKS	Reject if bent >5° or weld cracked — quarantine immediately.	WELD CHECK	Visible weld cracks at corners → immediate withdrawal. Field welding NOT permitted.
DECK INTEGRITY	Reject if buckling, holes or >20% loss of anti-slip pattern present.	STORAGE	Stack on level bearers; protect from ground moisture; avoid face-to-face stacking.
STIFFENERS	Inspect stiffener welds every 6 months. Remove from service if detached or cracked.	DEFECTIVE	Mark with red band and segregate before disposal or repair.
CORROSION	Surface rust acceptable if <2 mm pit depth; deep pitting / section loss → remove.	MAINTENANCE	Touch-up cut edges with zinc-rich primer (min 45 µm). Do NOT paint over anti-skid dimples.

Antiskid Walkway Plank Design

STEEL GRADE	IS 2062 E250
DECK THICKNESS	14 / 16 Gauge — 2 mm / 1.6 mm
BOARD WIDTH	300 / 280 / 240 mm
BOARD LENGTHS	1250 / 2000 / 2500 / 3000 mm Custom on request
GALVANISING	Min 45 µm zinc · Pre Galvanized · EN ISO 1461
ANTI-SKID OPTIONS	Antiskid Dimple Plate (std) · Diamond Checker (req) · Checker Plate (req)

STIFFENER SPACING	500 mm c/c transverse · Longitudinal added when width > 400 mm
SAFETY FACTOR	Min 4× intended load
DEFLECTION LIMIT	Span / 60
MAX PLANK GAP	25 mm
OVERHANG	50 mm min / 150 mm max
COMPATIBLE SYSTEMS	Tube-and-Coupler · Cuplock · Frame Scaffold · Ringlock

Applicable Standards

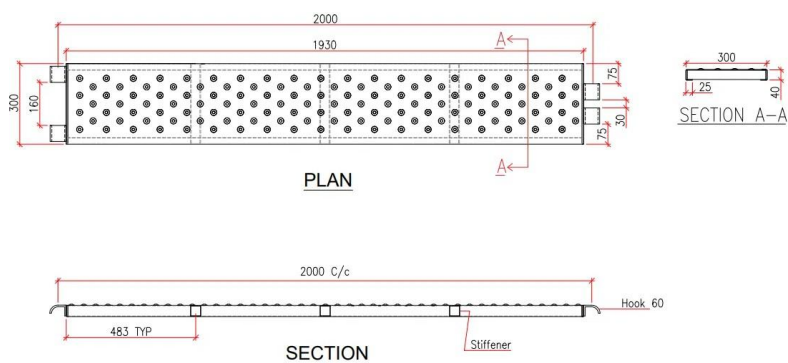
Standard	Scope
IS 3696 (Pt. 1 & 2)	Safety code for scaffoldings
IS 4014 (Pt. 1 & 2)	Code of practice – steel tubular scaffolding
IS 2062 E250	Structural steel – hot-rolled plates, sections & bars
IS 816	Code of practice for manual metal arc welding
EN ISO 1461	Hot-dip galvanized coatings on fabricated iron & steel articles
IS 4759	Hot-dip zinc coatings on structural steel
ISO 9001	Quality Management System (Prime Steeltech)

Contact & Further Information

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TECHNICAL DRAWING – G.I. BOARD WITH HOOK



SIZE	2000 × 300 mm
SELF-WEIGHT	17.15 kg
STEEL GRADE	IS 2062 E250
DECK SHEET	2 mm (14 Gauge)
GALVANISING	Min 45µm EN ISO 1461
HOOK TYPE	Hook 60 - both ends

The G.I. Board with Hook is a standardized walkway plank designed for safe and efficient access across scaffolding systems and elevated work platforms.

Manufactured from hot-dip galvanized mild-steel, the plank features an antiskid dimple-perforated deck surface that provides excellent slip resistance under typical site conditions. The plank is 2000 mm in length and 300 mm in width, with a 75 mm upstand edge on both sides, roll-formed for enhanced strength and user safety.

Structural integrity is ensured through a 2 mm thick deck sheet (14 Gauge) fitted with three internal transverse stiffeners spaced at 483 mm centers to distribute load uniformly across the full 2000 mm span.

Nominal self-weight of the plank is 17.15 kg

Each plank is fitted with welded hook ends-fittings (Hook 60) at both ends, designed for secure engagement standard tube-and-coupler scaffolding systems.