Galvanized Iron (GI) Channel Products

Product Categories, Representative Market Listings & Catalog Specification Guide

> **Overview:** Galvanized Iron (GI) Channel products are structural or framing steel profiles coated with a protective layer of zinc to prevent rust, oxidation, and weather damage. Combining high load-bearing strength with long-term corrosion resistance, they are categorized by cross-section shape, gauge thickness, and end-use application.

1. Ceiling & Drywall Framing Channels

Lightweight, cold-rolled thin-gauge channels (typically 0.40 mm to 0.55 mm thick) used to build concealed metal grids for gypsum false ceilings and drywall partitions.

- **Key Features:** High screw retention, resistance to indoor humidity, and prevention of sagging or cracking in plasterboard installations.
- **Standard Sizes:** Commonly supplied in 3,660 mm (12 feet) lengths, including perimeter channels, intermediate channels, and ceiling sections.

Product Name	Price & Vendor	Specifications & Application
GI-GYPFRAME XPERT G PERIMETER SEC	**₹165.00** Fixxly	**Dimensions:** 30 × 21 × 20 mm profile, 0.4 mm thickness, 3,660 mm length. **Application:** Fixes along wall perimeters to support suspended gypsum ceiling grids.
Gyproc Perimeter Channel 3660	**₹260.00** IBO	**Material Build:** Cold-rolled Gypsteel ULTRA steel engineered for uniform thickness and high strength. **Application:** Designed for durable false ceiling and drywall partition framing.

2. Slotted & Unistrut Support Channels

Heavy-duty C-shaped profiles (typically 1.5 mm to 2.5 mm thick) featuring inward-returned lips and pre-punched slots along the back web.

- **Key Features:** Pre-punched slots eliminate on-site welding or drilling, allowing fast bolt-and-spring-nut assembly for modular framing.
- **Standard Sizes:** Most widely available in 41 × 41 mm (deep strut) and 41 × 21 mm (shallow strut) cross-sections across 2 m, 3 m, or 6 m lengths.

Product Name	Price & Vendor	Specifications & Application
Unistrut 41 × 41 mm Galvanised Steel Strut Slotted Channel, 3 m Long	**₹15,880.25** rsdelivers.com	**Specifications:** 2.5 mm thick galvanized steel with 10 × 25 mm slots on a 50 mm pitch. **Application:** Supports MEP installations, cable trays, HVAC ducts, and pipework.
Galvanized GI Slotted Channel 41×41mm for Solar Panel Structure (6 Ft - Pack of 2)	**₹3,950.00** amazon.in	**Outdoor Durability:** Heavy-duty zinc-coated steel built to withstand outdoor weathering in rooftop solar arrays. **Modular Design:** Slotted base simplifies alignment and mounting of solar panel clamps.

3. Heavy Structural C & U Channels

Hot-rolled or heavy cold-formed mild steel channels (ranging from 1.5 mm up to 6 mm+ thickness) treated via hot-dip galvanizing for maximum structural strength.

- **Key Features:** Hot-dip zinc coatings (often 80 gsm or higher) protect exposed steel frameworks against harsh industrial and outdoor conditions.
- **Standard Sizes:** Supplied in 6-meter or 12-meter lengths across widths ranging from 70 mm up to 300 mm.

Product Name	Price & Vendor	Specifications & Application
Galvanized Iron C & Z Channel for Solar Panels 1.5 mm 12 m 70–300 mm	**₹7,300.00** BazarGPT	**Specifications:** Roll-formed 1.5 mm thick galvanized iron available in 70–300 mm web dimensions and 12 m lengths. **Application:** Built for large-scale solar mounting purlins and exterior framing.
ESSAR U Mild Steel Channel, 6m Length, Metallic Grey, Polished, Galvanized Surface	**₹5,900.00** BazarGPT	**Material Build:** Heavy U-shaped mild steel section with a polished galvanized surface treatment. **Application:** Suited for industrial fabrication, load-bearing trusses, and equipment supports.

4. Sample Catalog Product Description Template

Standard format for product listings, tender specifications, or catalog entries:

Product Name: Hot-Dip Galvanized Iron (GI) C-Channel / Slotted Strut Channel

Product Overview: Manufactured from high-tensile mild steel and protected with a uniform zinc coating, this Galvanized Iron Channel delivers superior structural rigidity and long-term rust resistance. Engineered for rapid installation and low maintenance in indoor and outdoor environments.

Key Specifications:

- **Material Grade:** Mild Steel (IS 2062 / IS 277) with Hot-Dip or Pre-Galvanized Zinc Coating
- **Profile Shape:** C-Channel / U-Channel / Slotted Strut
- **Standard Sizes:** 41×41 mm, 41×21 mm, 75×40 mm, 100×50 mm (custom sizes available)
- **Thickness:** 0.40 mm – 6.0 mm
- **Standard Length:** 3 meters (10 ft), 3.66 meters (12 ft), 6 meters, or 12 meters
- **Applications:** False ceiling grids, solar panel mounting structures, electrical cable tray supports, HVAC ducting, and industrial steel framing.