

Sustainable Solutions for Construction



PRODUCTS

Hot Rolled Products



Essar Steel produces the finest quality of Hot Rolled Steel. It has proved to be a critical input for highly demanding applications.

- Applications : General Engineering, Automobiles, Infrastructure, Oil & Gas Pipelines, and etc.
Product Forms : Coils, Plates, and Sheets
Dimensions : Thickness : 1.6 to 20 mm, Width : 180 to 2000 mm, Length 2000 – 12000 m

Industry Applications	Indian Standards	International Standards
Cold Rolling	IS 11513	JIS G 3131, ASTM A569, BS 1449
Deep Drawing	IS 1079	JIS G 3132, ASTM A621, EN 10111
Corrosion Resistance	IRSM 41	JIS G 3125, ASTM A588, EN 101555
Boiler Quality including Normalised Plates	IS 2002	JIS G 3103, ASTM 515 / 516, ASTM A 537
General Engineering	IS 5986 IS 2062 - 2006	JIS 3101, EN 10025, ASTM A36, 53, 283
Pipes & Tubes	IS 10748	API Specification, SAE 1008
Automobiles	IS 1079	JIS G 3113, SAPH 310 – 340, QSTE 340 – 380, EN 10149

Chequered Plates



Essar Steel produces the finest quality high friction Chequered Plates ensuring maximum skid resistance. They are available with tear drop pattern.

- Applications : Flooring, Grating, and other structural applications.
Product Forms : Coils, Plates, and Sheets
Dimensions : Thickness : 0.3 to 10 mm
Width : 900 to 1500 mm
Length : up to 12000 m
Bead Height : 1.2 mm (Max)

Industry Applications	Indian Standards	International Standards
General Engineering	IS 2062 - 2006 (Base)	ASTM A36

Shot Blasted & Primer Coated Plates

Essar Steel's 24 carat Shot Blasted and Primer Coated Plates are not only environmentally friendly; they can be used directly and thus save time and reduce costs. They are highly weather resistant, and are available in Red Oxide and Zinc Silicate Primer Coatings.

- Applications : Ship Building, PEB, Construction, Railways, Bridges, and General Engineering
- Product Forms : Plates
- Dimensions : Thickness: 6 to 20 mm, Width: 1250 to 2000 mm, Length up to 12000 m

Industry Applications	Indian Standards	International Standards
General Engineering	IS 2062 - 2006 (Base)	ASTM A36

Options Available

- Pattern : One or both sided Blasting or Priming
- Primers : Iron Oxide or Zinc Silicate Primer 15 to 20 microns
- Blast Standards : Swedish Standard SIES 055 900 Grade SA 2.5, ISO 8501 – Grade SA 2.5

Galvanized Plain

Essar Steel's 24 carat Galvanized steel with a guaranteed zinc coating of minimum 120 GSM. To suit variety of applications, they are available in three different surface finishes viz. Regular Spangle, Minimum Spangle, and Suppressed Spangle.

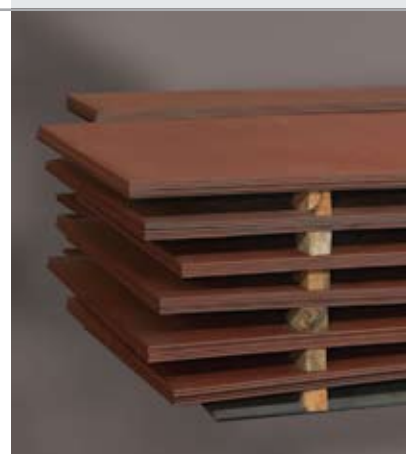
- Applications : Air-conditioning / Heating Ducts, Automotive Under body Parts, Mufflers, Water Heaters, Stoves, Coolers & Refrigerators
- Product Forms : Coils and Sheets
- Dimensions : Thickness: 0.15 to 3.2 mm, Width : 200 to 1350 mm, Length up to 2500 m.
- Zinc coating : 120 - 600 GSM

Options Available

- Spangle : Regular, Minimum, and Suppressed
- Surface : Chromated, Dried

Finishing Facilities

- Skin Pass, Tension Leveller, CTL, and Slitting



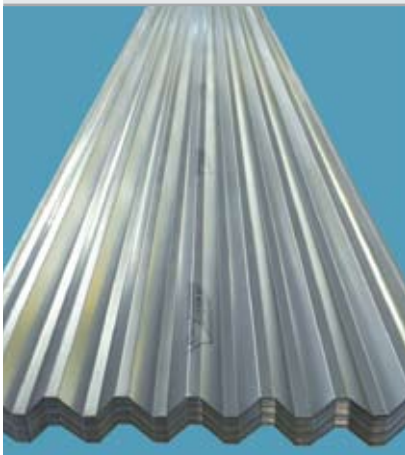
Sona Galvanized Corrugated Sheets



Sona Galvanized Steel with a guaranteed zinc coating of min. 120 GSM provides longer life and better durability. The extra-wide 1200 mm sheet is another breakthrough solution resulting in substantial cost savings to the consumers.

Applications	:	Roofing and Facade
Product Forms	:	Sheets
Dimensions	:	Thickness : 0.16 to 0.8 mm, Width : 760 to 1200 mm, Length 2440 to 4880 mm.
Zinc Coating	:	120 GSM
Depth of Corrugation	:	17.5 mm
Pitch between Corrugation	:	75 mm
Hardness	:	> 85 HRB

Essar Dek - Floor Decking Sheets



Essar Steel's state-of-the-art floor decking solution - Essar Dek, is customer engineered to optimise structural efficiency; reduce extraneous usage of steel and cement; economises on concrete thickness owing to additional load bearing capacity of decking sheets when used as a composite with RCC.

Applications	:	Shuttering, Flooring, Wall Cladding, and Roofing
Product Forms	:	Profiled Sheets
Specifications	:	IS 513D (YS 250 to 550 MPa)
Dimensions	:	Thickness : 0.6 to 1.25 mm Width : Supplied 952 mm (Effective 910 mm) Length : Up to 7000 mm
Zinc Coating	:	120 to 375 GSM
Depth	:	44 mm
Pitch	:	130 mm

MAJOR GRADES AND MARKET SEGMENTS

Segments	Major Grades	Key Customers
Power Segment	IS 2062 - 2006 ASTMA 516 Grade 60 / 70 DIN 17100 ST 52.3	Thermal Power : NTPC, REL, Tata Power, Lanco, Adani, GMR, GVK, L&T ECC, BHEL, Thermax Hydel Power : NHPC, Lanco, L&T Hydro Division, Teesta Urja, Raghu BKM, Texmaco, Jaypee Hydro, Alstom, PES Engineering, VA Tech.
Airport, Stadium, and SEZ	IS 2062 - 2006 IS 2062 Fe 540B	DIAL (Delhi International Airports Ltd.) - GMR, L&T MIAL (Mumbai International Airports Ltd.) - GVK, L&T Reliance SEZ Jamnagar Shapoorji Pallonji
Construction Equipment	IS 2062 - 2006 EN 10149 - 355 MC EN 10025 S 235 J2G3 / S 275 J2G3	Caterpillar, JCB, L&T Case, Hyva
Pre-Engineered Buildings (PEB)	IS 2062 - 2006 ASTMA 570 - Grade 50 / A 572 - Grade 50 DIN 17100 ST 52.3	Kirby, Tiger, Interarch, Tata Blue Scope, Zamil Steel, Colour Roof, Phenix Varco, PEB Steel Llyod, Metco Roofing
Pipeline	Grades X42, X46, X52, X56, X60, X65, X70, X80 (Low Sulphur & Low Inclusion) IS 10748, IS 2062-2006, IS 2062-2006 with cu	Welspun, Man Industries, Jindal Saw, PSL, Surya Roshani, Ratnamani, Awaz Pipe, Arabian Pipe, Kuwait Pipe Water Pipeline Welspun, MSL, Zenith, Asian Tubes
Road Bridge Construction	IS 2062-2006 ASTMA 516 Grades 60/70	Affcons, Gamon India, HCC, IVRCL, JMC, L&T, Nagarjuna constructions
Wagon Building	IS 2062-2006 Fe 540 "B" with Cu / Fe 570 "B" With Cu (Corrosion / Wear Resistance)	Concor, Indian Railways, Texmaco, Titagarh Wagons Ltd,
Ship Building	(with / without shot blasted & primer coated) IS 2062-2006 AH 32, AH36, DH 36 DMR 249 Grade A (ABA) GHOST	(Constructions & Repairs) ABG Shipyard, Bharti Shipyard, Chowgule, Dempo, Drydocs, Modest Infrastructure, Mech Marine Engineers, Pipavav, Alcock Hashdown, Ship Building, Timblo, Vipul Shipyard



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