



DANA STEEL PROCESSING INDUSTRY L.L.C
(A Division of Dana Group)



ISO 9001:2008

ISO 9001:2008 registered company by IIC. (No. : JU – 1306)

DANA Steel Highway Guard Rail



Journey on Highway with Peace

Vehicle Restraint Systems



P.O. BOX 40743 DUBAI, U.A.E. TEL. 04-2217273 FAX. 04-2215940

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Highway Guard Rails **Journey for Prosperity**

DANA STEEL Processing Industry LLC has manufacturing facilities located at Umm Al Quwain, in the United Arab Emirates. The plant is fully integrated and is designed to be a one stop solution to all engineering systems. Spread over 65,000 square meters the plant employs a skilled workforce of around 100 people. The plant covers the entire gamut of engineering fabrication and is equipped with most sophisticated equipment system to achieve quality products consistently.

Capitalizing on its experience, expertise and vast pool of skilled manpower has recently ventured into the manufacture of Highway Guard Rail Systems & Components into their manufacturing range to cater to the market requirements.

The use of Guard Rail Systems on highways as a safety barrier is quite well known and is popular throughout the world. Millions of kilometres of roads are fitted with these systems to protect the vehicles from skidding away and avert fatal accidents.

The Highway Guard Rail System is an ISO 9001 Certified product, with complete range of accessories including Posts, Spacer Blocks, Transition, End pieces



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and allied hardware.

Machinery

The guard rail beams are manufactured in one of the most, modern controlled continuous forming line with excellent consistency of quality, high production rate and superb finish. The plant is extremely sophisticated with built in safety measures and is a high speed forming line and pre-programmed to form the W-type guard rail beam with close control of dimensions. Being a fully automatic high speed plant with a capacity of about 200 km per month, it is ideal for large requirements with short delivery lead times

The Punching, Forming, Cutting & Stacking are controlled and through our skilled dedicated Employees.
like the Forming Height, Width, Length etc



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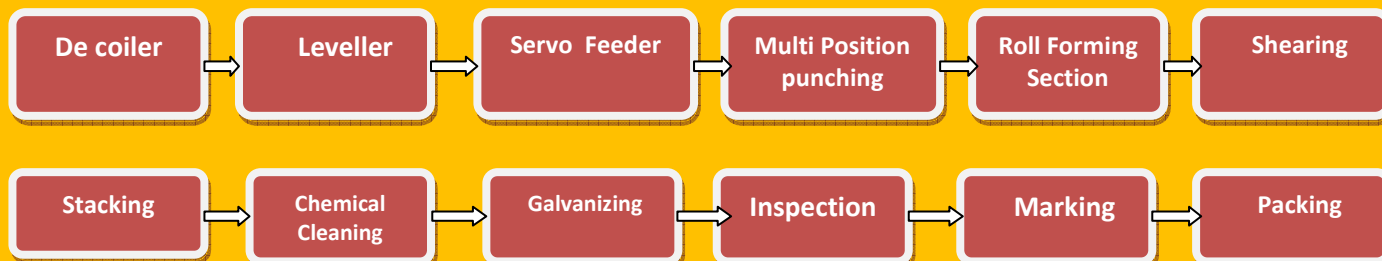
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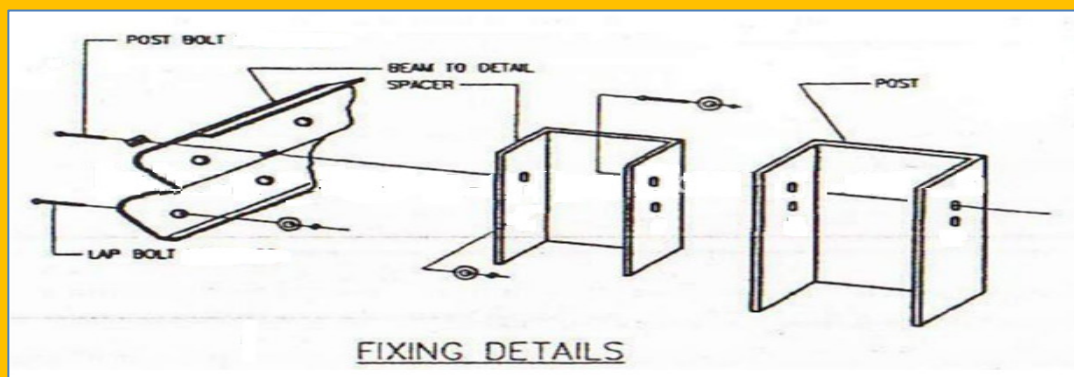
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Process Flow :



Fixing Details :

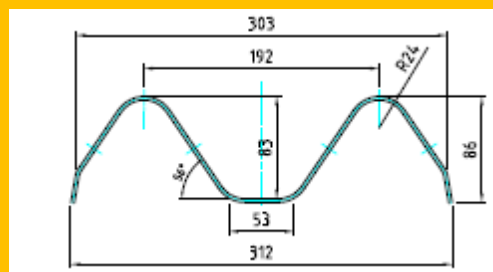


W- Beam :

The Beam shall be manufactured from high quality hot rolled coils by continuous forming Punching system.

Profile: W-beam

Normal Specification : 312mm × 86mm × 2.74mm
Standards : JT/T 281-1995, AASHTO M- 180.
Base steel : S235JR / DIN EN10025 and Grade 43A.
Finish: Hot dip galvanized.



The thickness of galvanized: 65microns



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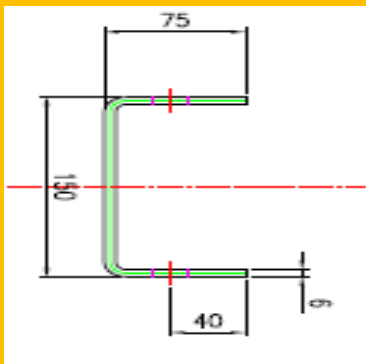
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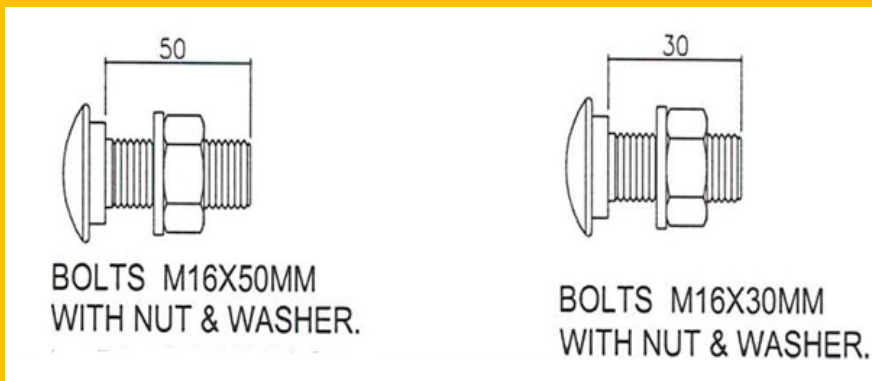
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Post & Spacer Material: The post & spacer shall be cold rolled formed channel 150mm x75mm x6mm (mild steel grade ST 44-2) of required lengths.



Fixing Accessories- Bolts, Nuts & washers: Complete set of fasteners is of Grade 8.8 & Hot Dip Galvanized.



Galvanizing: All parts will be Hot Dip Galvanized as per BSEN ISO 1461

Manufacturing Standard

Primarily the guard rail is manufactured to conform to AASHTO M 180. Other specification like AASHTO M270 / ASTM A 446 / A36 for posts, DIN St 37 etc. are also used as per the customer requirements. Nuts and Bolts conform to ASTM A 307 Class 8.8. Apart from the above specifications we can cater to any specific standards required by the customer tailor made to suit individual requirements.

Guard rail beams are W type, i.e. two wave type while posts are either C-channel formed from hot rolled sheets or UPN structural steels.



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Finishing of Guard Rail & Accessories

Galvanizing

All Posts and Accessories are galvanized to Specifications mentioned in International Standards. All Material to be galvanized goes through an elaborate Pre- Cleaning process which includes: Pre-Cleaning , degreasing, Rinsing, Pickling & Drying process before Galvanizing. Quenching & Passivation Is carried out based on individual specification / needs of the Customer.

Quality Control

All raw material used for guard rail beams or posts are tested for mechanical properties in our in-house laboratory. We have in-house testing facilities, and machines for tensile strength, yield strength and elongation apart from Hardness testing. Every lot is tested and record maintained.

Acceptance Criteria

All guard rails, posts, end pieces, hardware conform to AASHTO 180 or any other specification as specified by the customer. Each lot is checked for dimensions, surface, galvanized coating thickness and recorded. The finished guard rails are marked with manufacturer's brand name, lot number, specification and class & type at a location which is easily visible and **Identifiable.**

Packing

Beams, posts are packed with standard packing material and wrapped in polyethylene sheets and corrugated cardboard with steel strapping in convenient lots while the hardware is packed in carton **boxes.**



DANA STEEL PROCESSING INDUSTRY LLC,
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