

Annual
Production
20000 MT

W-Beam Crash Barriers
Safety and Protection
on the Road

#JamaInfraKo



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W-Beam Crash Barriers

Hulas Infra proudly presents the Crashguard W-Beam, designed to provide superior safety and durability for road infrastructure projects. Our W-Beam (W-profiled) single-side, single-beam system is engineered to meet all prevailing standards and specifications in the road safety industry.



Key Features:

Material

Hot-dip galvanized steel for superior corrosion resistance.

Section Thickness

Available in 3 mm and 3.43 mm, ensuring robust performance.

Zinc Coating

Provides a zinc coating of up to 550 GSM or 80 micron, ensuring long-lasting protection against rust and weather elements.

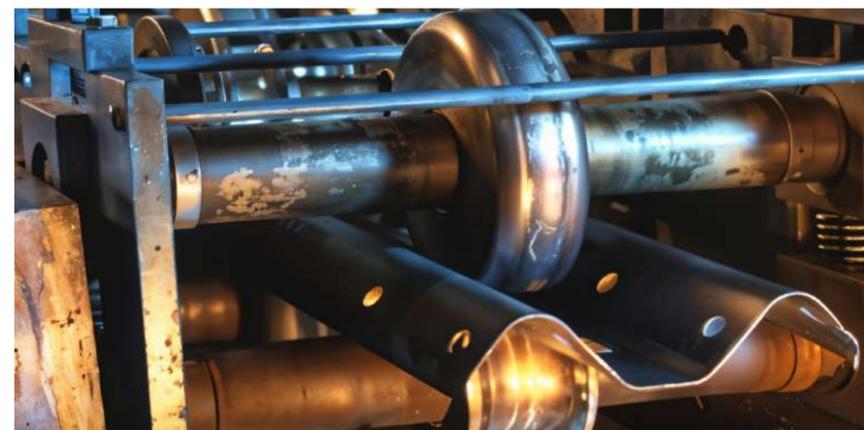
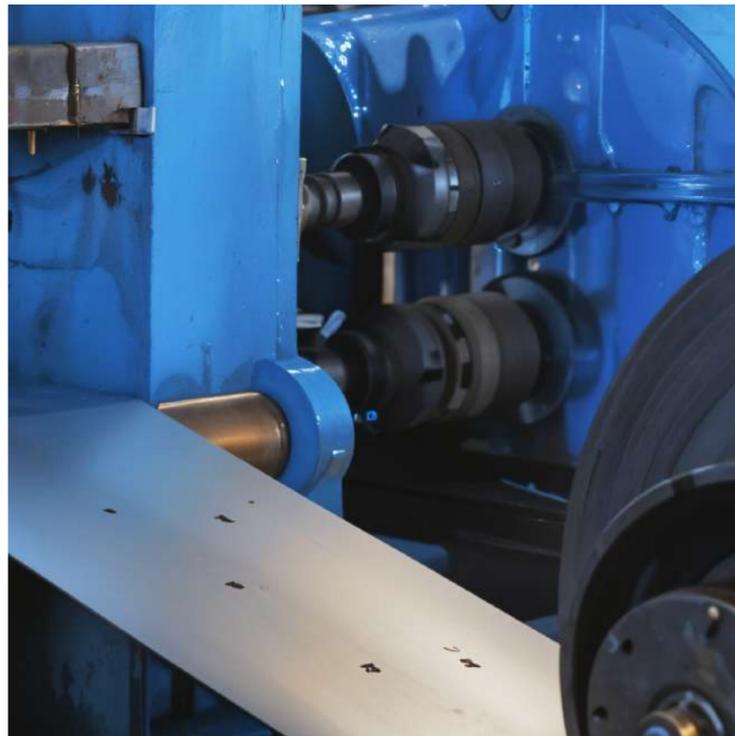
Standards Compliant

Conforms to all relevant national and international standards for road safety barriers.

At Hulas Infra, we are committed to providing high-quality, reliable road safety solutions that meet the diverse needs of infrastructure projects worldwide.



State-of-the-Art Manufacturing Facility at Birgunj



Key Features of Our Manufacturing Facility

Advanced Equipment

Our factory is equipped with the latest machinery for precision cutting, welding, and galvanizing processes, ensuring a consistent, superior finish for each product.

High-Capacity Production

We have a robust production line capable of handling large-scale manufacturing demands, without compromising on quality or delivery timelines.

Skilled Workforce

Our team of engineers and technicians are dedicated to upholding the highest manufacturing standards, ensuring every barrier meets our stringent specifications.

Sustainability:

The manufacturing process is designed with environmental responsibility in mind, minimizing waste and optimizing energy consumption.

Manufacturing Process

- 1 Procurement of HR Coils.
- 2 Decoiling.
- 3 Sheet Straightening.
- 4 Shearing to required Length and Width
- 5 Manufacturing W-Beam, Posts & Spacers
- 6 Punching.
- 7 Roll Forming.
- 8 Checking the dimensions appropriately.
- 9 Galvanizing.
- 10 Final Checking.
- 11 Ready to dispatch for Project Site.



Galvanising Process

- 1 Degreasing.
- 2 Water Rinsing
- 3 Acid Pickling
- 4 Fluxing
- 5 Water Rinsing (Two Bath)
- 6 Drying
- 7 Immersion in Zinc
- 8 Quenching and Chromating

Testing Facilities

Tests Conducted in Our Facility



Cupping Test

To determine the material's ability to withstand deformation and ensure its durability under impact.



Thickness Tolerance Test

Ensures that the thickness of the steel components remains consistent and meets the required specifications.



Universal Tester for Elongation

Measures the elongation of the material, ensuring that it can handle stress without compromising its structural integrity.



Bend Test

Tests the material's flexibility and resistance to cracking or breaking when subjected to bending forces.

Tensile Test

To measure the strength of the material and ensure it can withstand tension without breaking or stretching beyond acceptable limits.

Spectrometer Analysis

Used to verify the chemical composition of the material, ensuring it adheres to quality standards and is free from impurities.



Specifications

W-BEAM

- Hot Rolled Section
- High Strength Steel conforming to IS 2062 or equivalent
- **Material:** Hot dip galvanised up to 550 GSM
- **Thickness:** 3mm and 3.43mm
- **Length:** 4320mm
- **Design:** The W-profile design ensures efficient impact absorption, reducing the severity of crashes and protecting lives.



END SECTION (FISH TAIL)

- Hot Rolled Section
- High Strength Steel conforming to IS 2062 or equivalent
- **Material:** Hot dip galvanised up to 550 GSM
- 3mm/3.43mm thick press formed end terminals (Fish tail)
- **Design:** The fish-tail design allows for gradual deflection, reducing the risk of vehicle rollover during a crash.

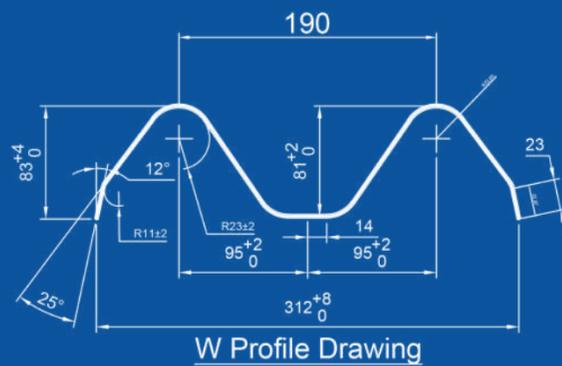
POST/SPACER

- Hot Rolled Section
- High Strength Steel conforming to IS 2062 or equivalent
- Section C/U channel
- **Material:** Hot dip galvanised up to 550 GSM
- Channel section of 5*150*75 mm
- **Design:** The posts are engineered to offer maximum support while allowing the barrier to flex during impact, helping to absorb the force and minimize injury.

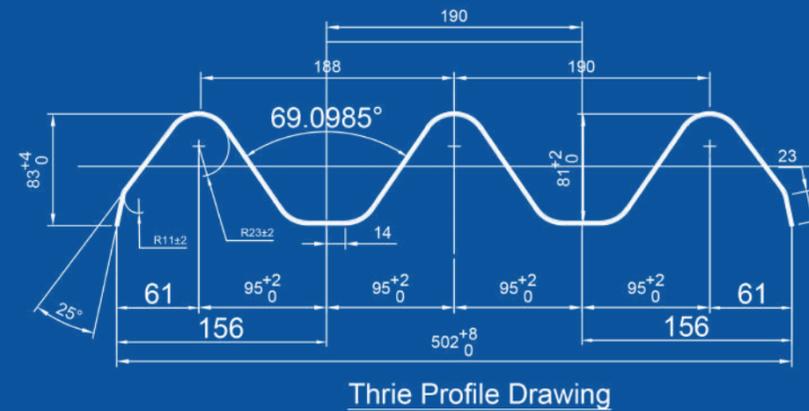


FASTENERS

- Hot dip galvanized bolts, nuts and washers
- Button head bolts for W-beam to W-beam to spacer connection
- Hexagonal head type bolts for spacer or post connection.
- **Design:** Engineered to ensure easy installation and reliable performance under stress, with the ability to withstand vibrations, weather extremes, and mechanical impacts.



Effect Width (mm)	502
Thickness (mm)	3 and 3.43



Effect Width (mm)	502
Thickness (mm)	3 and 3.43



Major Key Benefits of Hulas Infra Crashguard W-Beam System

Superior Durability

With years of experience in the road infrastructure industry, we bring unmatched expertise to every project.

High Impact Absorption

The innovative W-profile design absorbs impact forces, significantly enhancing road safety and reducing injury risk.

Customizable Design

Our Crashguard systems are flexible and can be tailored to meet the unique needs of any road or infrastructure project.

Easy Installation & Maintenance

Designed for quick installation and minimal upkeep, our barriers reduce costs and ensure hassle-free performance.

Compliant with International Standards

Hulas Infra barriers meet the highest global safety standards, providing reliable protection and regulatory compliance.

WHY HULAS INFRA?



Expertise

With years of experience in the road infrastructure industry, we bring unmatched expertise to every project.



Commitment to Quality

We only use the best materials and manufacturing practices to ensure long-lasting, high-performance products.



Customer-Centric Approach

We listen to your needs and offer customized solutions to meet the specific requirements of your project.



Competitive Pricing

Our products offer excellent value for money without compromising on safety or quality.

