



METAL BEAM CRASH BARRIERS

Our Mission Starts and Ends With Safety

Thrie-Beam

HIGHWAY

Guardrail

Grade Steel

Traffic Safety Solutions

Performance
Security

081 M OHSAA

SAFETY

C-Channel

W-Beam

Crash Barriers

Hot-Dip Galvanised



YOUR SAFETY, OUR PRIORITY

Guardrail barriers provide semi-rigid protection to shield motorists from hazards located close to the edge of the travelled way.

Our guardrail's uniformly high resistance to impact is assured by its continuous flexible beam action. This prevents dangerous pocketing and at the same time minimises the ride down acceleration experienced by the vehicle and its occupants.

The high visibility of guardrail creates driver confidence. This is an intangible but exceedingly important factor. At night or in fog conditions, the excellent visibility of guardrail highlights the limit of safe travel and reduces dangerous centre line crowding.



Our range of road and highway safety barriers include the various types of W-Beam and Thrie-Beam systems approved for use on India's roads. These include Ezy-Guard Smart W-Beam, which is fully compliant to MASH TL3.

We have also extended this product family with the Ezy-Guard High Containment, the first Thrie-Beam barrier in India, which is compliant to MASH TL4. This offers a large increase in containment with a 58% increase in impact energy when compared to the old 350 TL4 systems.

SAFETY BARRIER APPLICATIONS

Valmont Aircon's guardrails are manufactured using the Cold Roll Forming Technology with multiple roll forming stations ensuring greater strength due to grain reorientation as compared to the normal press-formed sections. These sections are of 'W' and Thrie-Beam shapes with a thickness of 3mm.

Following are some of the applications of these safety barrier systems:

- Highways, Flyovers & Bridges
- Median Barriers as Road Separators
- Protection from Trees, Rocky Areas etc.
- Hilly Terrain, High Embankments etc.
- Test Tracks in Automobile Industry
- Mass Housing Complexes/Townships
- Airports, Railway Stations and Parking Lots

W-BEAM WITH C-POST

The most common guardrail system consists of a steel W-Beam rail on steel posts with end treatments and transitions of various designs using similar materials. The W-Beam type safety barrier shall consist of a steel post and a 3mm thick 'W' Beam rail element.

The steel post and the blocking out spacer shall both be channel section of 75mm x 150mm size and 5mm thick. The rail shall be 70 cm above the ground level and posts shall be spaced 2m center-to-center. A double 'W' Beam barrier shall be as indicated in IRC:5-1998.



TECHNICAL SPECIFICATIONS

- Cold Roll-Formed
- Raw Material: IS 2062 FE 410/510 Grade Steel
- Tailored to customer needs
- Hot-Dip Galvanised (550 GSM minimum)

Valmont Aircon's guardrails conform to the AASHTO M180 specification standards for Metal Beam Crash Barriers.

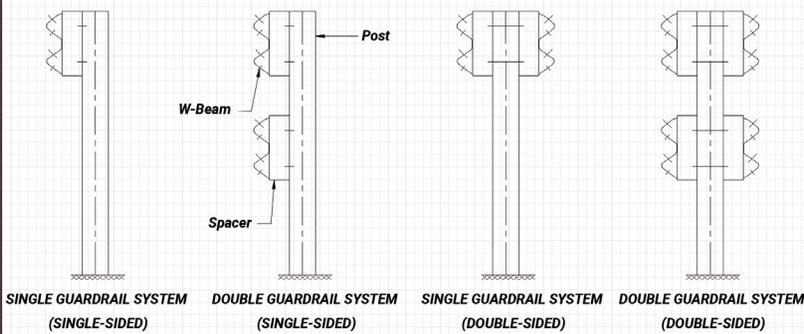
We follow and adhere to the guidelines for manufacturing and installation of Metal Beam Crash Barriers as specified by the Ministry of Road Transport and Highways (MoRTH), Government of India and the National Highways Authority of India (NHAI).

Specifications	
C-Channel Post Length	1,800mm
C-Channel Post Mass	18.5kg
C-Channel System Mass	22.5kg ± 2%
Rail Height Above Ground	710mm
C-Post Height Above Ground	700mm
Post Spacing	2,000mm

ENGINEERED WITH PRECISION

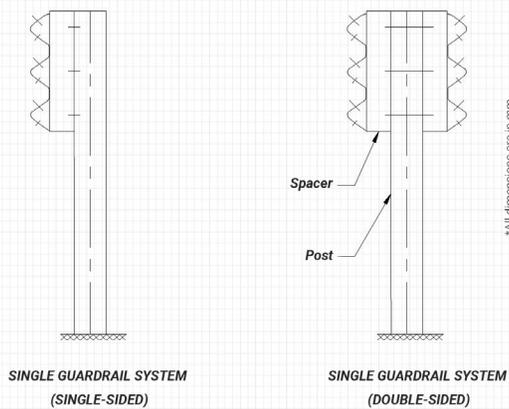
Possessing an extensive engineering expertise, Valmont understands the countless variables involved in manufacturing simple yet modern and durable crash barrier systems. With a strong heritage of proven results in engineered highway safety products, these systems can be built as per industry standards and certified specifications to meet the needs of almost any project. With world-class resources and local expertise, Valmont Structures manufactures these rugged systems at its plant in Chakan in Pune, Maharashtra.

W-BEAM TYPES



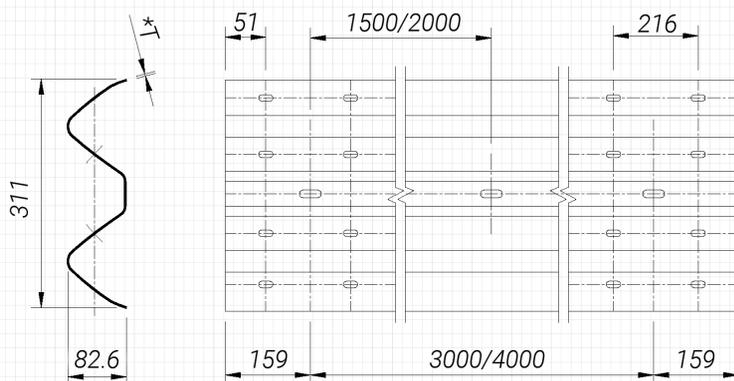
*All dimensions are in mm

THRIEBEAM TYPES



*All dimensions are in mm

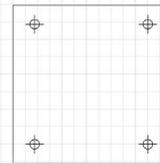
W-BEAM SPECIFICATIONS



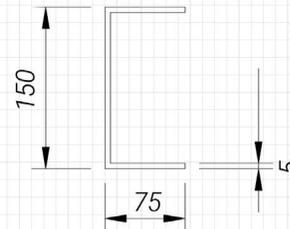
*T = 2.67/2.74/2.82/3.0

*All dimensions are in mm

BASE PLATE & POST/SPACER DETAILS



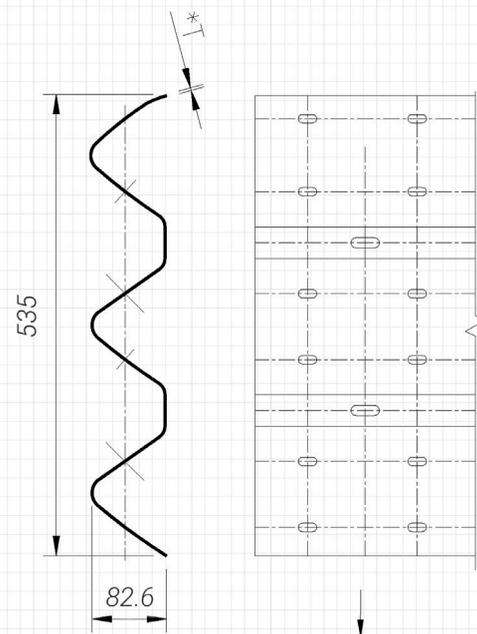
BASE PLATE
(250 X 250 X 16THK.)



POST & SPACER C-CHANNEL
(150 X 75 X 5 THK.)

*All dimensions are in mm

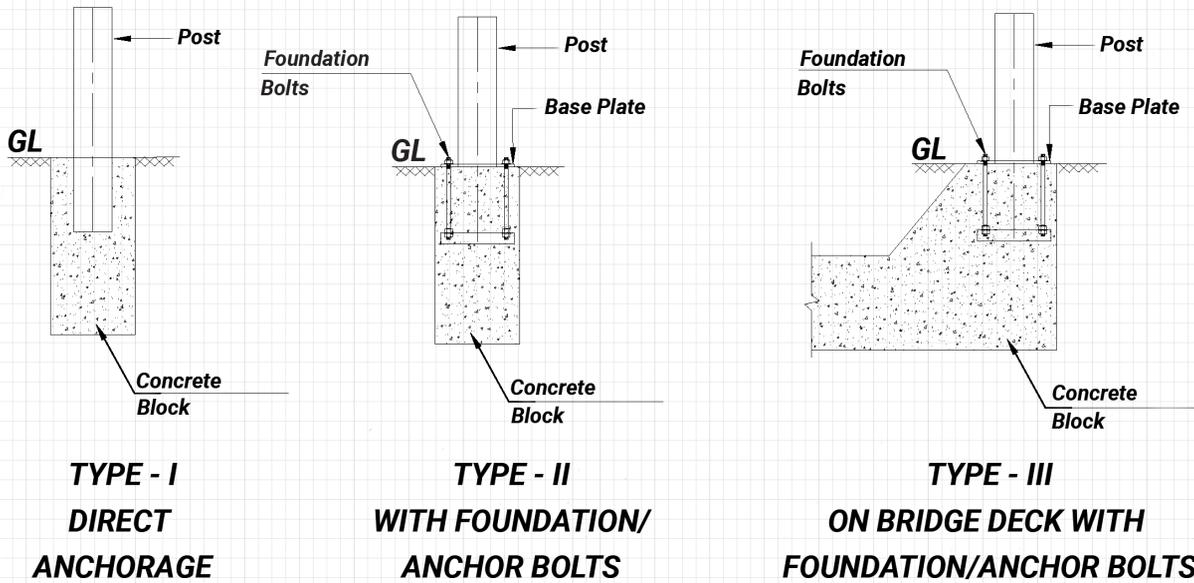
THRIEBEAM SPECIFICATIONS



All other dimensions are as per W-Beam

*All dimensions are in mm

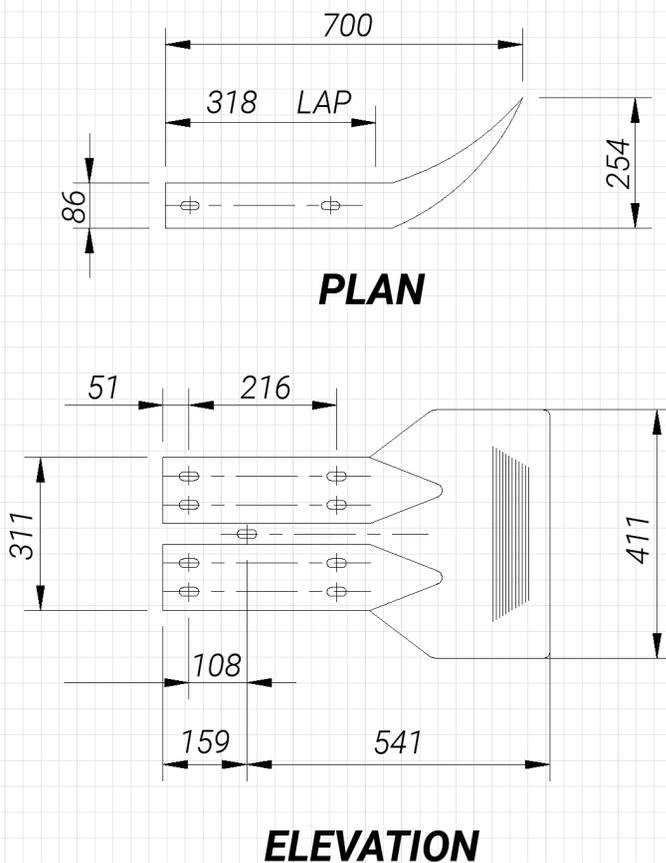
TYPICAL FOUNDATION DETAILS



*All dimensions are in mm

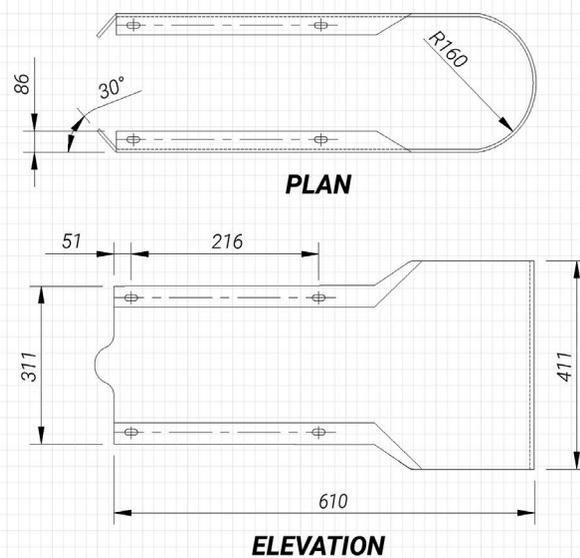
W-BEAM: END CONNECTION

1. FISHTAIL



*All dimensions are in mm

2. BUFFER END



*All dimensions are in mm

ABOUT US

Valmont is a leading manufacturer and supplier of safety barriers with its in-house hot-dip galvanising plant. We are the market leader for safety barrier systems and continue to service our customers through our on-going program of research and development. We have built our reputation on a company-wide customer service, innovation and cost-effective solutions. Most importantly, we put our experience, understanding of customer needs, technology and operational excellence into everything we design and manufacture. We pride ourselves on being people of integrity who excel at delivering optimal results.



To know more about products manufactured by Valmont India, please visit our website www.valmont.in.

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Corporate Office

Valmont Structures Pvt. Ltd.
Unit 203, 2nd Floor, Pentagon 4
Magarpatta City, Hadapsar
Pune - 411013, Maharashtra, India
Tel: +91-20-30403831/32/33/34
marketingindia@valmont.com

Aircon Factory

Gat No. 123/2, Shed No. 7
Vatsalya Warehouse, Murhe Vasti
Chimbli Phata, Moi Road
Kuruli, Taluka Khed, Chakan
Pune - 410501, Maharashtra, India

Indapur Factory

Valmont Structures Pvt. Ltd.
A-20, Indapur Industrial Area
M.I.D.C., Indapur
Pune - 413132, Maharashtra, India
Tel: +91-2111 252000
sales.india@valmont.com

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