

Guardrail Terminal Ends

Beams and Terminals



Guardrail terminal ends are installed at the start and end of each barrier run, and at every opening in the barrier line, to prevent a vehicle from being impaled on the sharp end of a beam. Hongda manufactures terminal ends using laser cutting and precision punching to ensure clean, accurate profiles that match the beam they connect to. The terminals are hot-dip galvanized to resist corrosion and are designed to redirect an impacting vehicle safely, reducing injury risk. They are produced to AASHTO M180, ABNT, and other international standards for use in the Americas, Brazil, EU, and Middle East.

Specifications

Surface Treatment	Hot dip galvanized
Production Method	Laser cutting and precision punching
Application	Terminal ends for W-beam, thrie-beam, and box beam guardrails

TBC: the published specification does not state Standard, Material, Zinc Coating for this product. Confirm before relying on it.

Key Benefits

- Prevents vehicle impalement on the end of a guardrail beam during a crash
- Reduces injury risk by redirecting the vehicle with a controlled exit angle
- Laser-cut and precision-punched for clean, accurate fit with the beam
- Hot-dip galvanized to resist corrosion in exposed roadside environments
- Available in upstream and downstream configurations for traffic direction
- Designed to meet AASHTO M180, ABNT, and other international standards

Technical Features



- Laser-cut and precision-punched for accurate profile and hole alignment
- Available in upstream and downstream configurations for traffic direction
- Hot-dip galvanized to resist corrosion in outdoor environments
- Designed to meet AASHTO M180, ABNT, and other international standards
- Compatible with W-beam, thrie-beam, and box beam guardrail systems
- Manufactured to match the beam profile and hole pattern for seamless splicing

Materials

- Q235B or Q345 steel from Tang Steel, China's top steel producer, ensuring consistent grade and thickness
- Steel coil inspected before processing to verify grade and thickness
- Laser cutting and punching ensure clean edges and accurate hole placement

Application Scenarios

- Ends of W-beam guardrail runs on highways and expressways
- Openings in barrier lines at bridge approaches, culverts, and access points
- Medians where barrier runs terminate at intersections or junctions
- Roadside installations where a vehicle might impact the end of a barrier
- High-risk zones such as sharp curves, steep embankments, and bridge abutments

Installation Notes

- Install upstream terminals at the beginning of a barrier run in the direction of traffic
- Install downstream terminals at the end of a run or at every opening
- Ensure the terminal is aligned with the beam profile and hole pattern
- Verify the orientation (upstream/downstream) matches the traffic flow
- Inspect galvanizing at cut or drilled points and treat any bare steel before installation
- Replace crash-damaged terminals individually to maintain system integrity