

Guardrail Posts

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Guardrail posts are structural supports for metal road safety barriers, determining the performance of the barrier system during a collision. Hongda produces steel posts using precision laser cutting and punching from Tang Steel coil, ensuring consistent fit and function. Posts are hot-dip galvanized to resist corrosion in outdoor environments. Available types include C, Z, H, and bolt-down posts, with C posts commonly used in Uruguay, Bolivia, and Chile. The posts are designed to be installed in soft soil or concrete pavement, depending on the application.

Specifications

Post Type	C, Z, H, Bolt Down
Material	Tang Steel coil
Surface Treatment	Hot dip galvanized
Application	Highway, roadway, median, shoulder
Installation Method	Driven into soil or bolted to concrete

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

Key Benefits

- Precision laser cutting and punching ensure accurate hole placement for consistent assembly with barrier beams
- Hot-dip galvanized surface provides long-term corrosion resistance on exposed roadside installations
- Posts made from Tang Steel coil ensure consistent steel grade and thickness across batches
- C, Z, H, and bolt-down configurations match different site conditions and installation methods



- Posts designed to absorb and transfer impact energy efficiently during a vehicle collision
- Post types selected to suit soil type (soft or hard) and pavement material (concrete or earth)

Technical Features

- C, Z, H, and bolt-down post types available for different installation conditions
- Laser cutting and punching for high-precision hole placement and clean edges
- Hot-dip galvanized surface for corrosion resistance in outdoor environments
- Posts designed to transfer impact energy efficiently into the ground or pavement
- Flanged and non-flanged options for soil or concrete base installations
- Compatible with W-beam, thrie-beam, and box beam barrier systems

Materials

- Tang Steel coil used for all posts, ensuring consistent grade and thickness
- Q235B or Q345 steel available depending on specification requirements
- Zinc for hot-dip galvanizing applied to achieve a corrosion-resistant finish
- Steel plates used in bolt-down posts for secure attachment to concrete surfaces

Application Scenarios

- Roadside installations where the barrier must remain stable during a high-speed impact
- Soft soil conditions requiring posts driven into the ground without a concrete base
- Concrete pavement installations where posts are bolted down using steel plates
- Curved or banked sections of road where post alignment must follow the road line shape
- Highway medians and shoulders where posts must resist lateral and vertical forces

Installation Notes

- Select post type based on soil type (soft or hard) and pavement material (concrete or earth)
- Drive C or Z posts into soft soil to the depth specified in the road authority drawing
- Use bolt-down posts with steel plates and long bolts when installing on concrete
- Ensure post alignment follows the road line shape and barrier continuity
- Check galvanizing at cut or drilled points and treat any bare steel before installation
- Replace damaged posts individually to maintain system integrity and reduce cost