



TECHNICAL DATA SHEET (TDS)

Galvanized Steel Guardrail

Product Name: Highway / Road Guardrail

Product Type: Galvanized Steel Safety Barrier

Supplier: Basekim Company

Product Description

Galvanized Steel Guardrails are road-safety barrier systems designed to absorb impact energy and redirect vehicles during collisions.

The system typically consists of steel beams, posts, spacers, bolts and connection accessories protected by galvanizing for corrosion resistance.

Available Types

- W-Beam Guardrail
- Thrie-Beam Guardrail
- Bridge Guardrail
- Cable Barrier Systems
- Customized Guardrail Systems

Typical Technical Properties

Property	Typical Specification
Material	Structural / carbon steel
Profile	W-Beam or Thrie-Beam
Surface Treatment	Hot-dip galvanized
Finish	Silver / metallic grey
Beam Length	Project-dependent
Beam Thickness	Project-dependent
Post Type	C, U, I or project-specific
Zinc Coating	Project / standard dependent
Connections	Galvanized bolts and nuts
Corrosion Resistance	High
Service Environment	Outdoor / highway use



Exact dimensions and coating requirements must be selected according to the applicable road authority or project standard.

Main Features

- High impact resistance
- Durable galvanized-steel construction
- Good corrosion and weather resistance
- Modular installation
- Long outdoor service life
- Replaceable damaged sections
- Multiple beam and post configurations
- Suitable for international infrastructure projects

Applications

- Highways and expressways
- Roadside shoulders
- Median barriers
- Rural and mountain roads
- Bridges and overpasses
- Tunnel entrances
- Industrial facilities
- Parking areas
- Logistics centres
- Construction sites

Guardrail Components

A complete system may include:

- Guardrail beams
- Steel posts
- Spacer blocks
- Terminal sections
- Bolts, nuts and washers
- Reflectors
- End terminals
- Connection accessories



Quality Requirements

Depending on the destination and project, guardrails should be manufactured and tested according to the applicable national or international road-safety standard.

The purchaser should specify:

- Required guardrail profile
- Steel grade
- Beam thickness
- Beam and post dimensions
- Zinc coating requirement
- Post spacing
- Impact/performance classification
- Applicable project standard

Packaging

Available as:

- Individual units
- Bundled packs
- Bulk shipments

Components should be securely bundled to prevent deformation and coating damage during transportation.

Storage

- Store on stable supports.
- Keep bundles properly secured.
- Protect components from mechanical damage.
- Avoid prolonged contact with corrosive chemicals.
- Store small accessories in dry, labelled containers.

Disclaimer

Technical dimensions, steel grade, zinc coating, post spacing and crash-performance requirements vary by guardrail system and project.



Final specifications must be confirmed by the approved project drawings, applicable road-safety standard and manufacturer documentation before ordering or installation.