

Highway Guardrail

The main purpose of the highway guardrail is to provide railing protection to motor vehicle at dangerous road areas such as Steep Slopes, Obscure Curves/Bends, High Embankments and Sharp Corners. It also absorbs sudden impact during collision thus minimizing injury to the vehicles and passengers. It is also used extensively in access controlled expressways.

Guardrail also known as Crash Barriers are specially designed and complies to AASHTOM and EN standards with hot dip galvanizing, straight and curve beams, posts, spacers, terminal rails to ensure



SPECIFICATION AND TECHNICAL DATA

1. Base Metal specification comply to AASHTO M 180-00 (2008)
 - Minimum Yield Strength : 345 N/mm²
 - Minimum Tensile Strength : 483 N/mm²
 - Minimum Elongation : 15%

2. Galvanising specification comply to:
 - AASHTO DESIGNATION: M 111M/ M 111-09
 - BS EN ISO 1461: 2009

3. PRESTAR dimension comply to AASHTO M 180-00 (2008)

TYPE	EFFECTION LENGHT (MM)	OVERALL LENGHT (MM)	NOMINAL THICKNESS (MM)
PE 1	3810	4128	2.67
PE 2	4000	4318	2.67
PE 3	3810	4128	3.00
PE 4	4000	4318	3.00

(Tolerance allowable under specified thickness)

Key Guardrail Supplied Projects



Year	Customer	Project Name	Value
2020	Dynamic Construction (Pvt) Ltd	Southern Expressway -Center Median	Rs.12,450,000.00
2020	SATA Engineering (Pvt) Ltd	Gampola –Nawalapitiya Road	Rs.3,600,000.00
2019	SATA Engineering (Pvt) Ltd	Moragahakanda Wellawaya Road	Rs.2,400,000.00
2017	Road Development Authority	EMO & M Division	Rs.51,730,000.00
2015	Maga Engineering (Pvt) Ltd	Rakwana To Madampe	Rs.4,980,000.00
2013	Maga Engineering (Pvt) Ltd	Kegalle Bypass Road	Rs.8,508,392.96
2011	Maga Engineering (Pvt) Ltd	Sinnamugathuvaram Bridge	USD 27,936.95
2010	Maga Engineering (Pvt) Ltd	Matara - Wellawaya Road	USD 18,591.87

Guardrail Installation

UNIK also undertakes guardrails installation works. Installation will be done by both manual and hydraulic piling machines.

