

ROAD

MASTER



HIGHWAY GUARDRAIL

- To Provide Railing Protection To Motor Vehicle At Dangerous Road Area Such As
 - ✓ Steep Slope
 - ✓ Obscure Curve/Bend
 - ✓ High Embankment
 - ✓ Sharp Corner
- To Absorb Sudden Impact During Collision Thus Minimise Injury To Vehicle And Passenger.
- To Act As Directional Railing For Vehicle Moving In The Right Direction.
- To Act As A Median Barrier For Avoiding Head On Collision.
- To Act As A Protective Barrier For Pedestrian Along The Highway.

COLFORM SDN. BHD. (605945-H)

KOTA KINABALU (HQ)

Lot 8, Jalan 2A KKIP Timur, Industrial Zone 12
(IZ12), Kota Kinabalu Industrial Park,
89208 Tuaran, Sabah.
Tel: +6088-472 221 / 011-3307 6264

SANDAKAN

Lot 197, Lorong Sedco 5,
Sedco Light Industrial Estate, Off Mile 2.5,
Jalan Utara, 90000 Sandakan, Sabah.
Tel: +6089-238 833 / 089-272 323 Fax: +6089-278 530



Another
quality product
from



SPECIFICATION AND TECHNICAL DATA

1) W Beam Sections:

Minimum Yield Strength: 345 MPa
 Minimum Tensile Strength: 483 MPa
 Minimum Elongation: 12%

2) End and Buffer Sections:

Minimum Yield Strength: 227 MPa
 Minimum Tensile Strength: 310 MPa

3) Galvanizing and thickness specification:

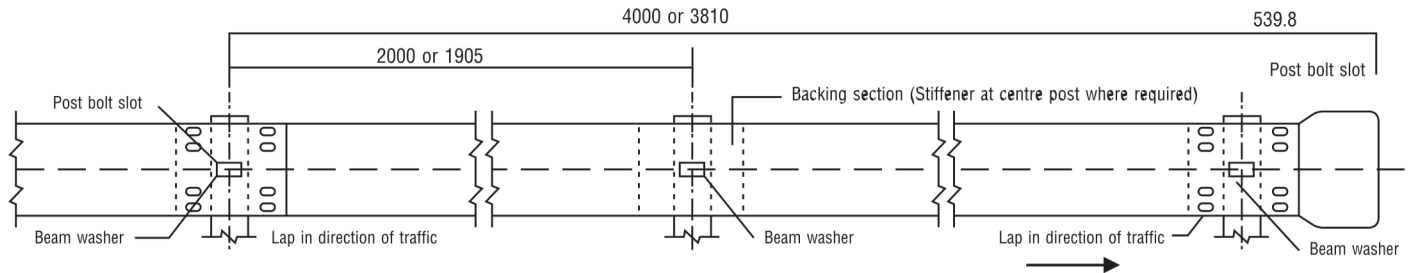
- Galvanizing specification comply to:
 AASHTO DESIGNATION: M 111M/ M 111-09
- Type II: Zinc-coated, 1100g/m² minimum single spot
- Class A: Base metal nominal thickness - 2.67mm

4) COLFORM Guardrail dimension comply to

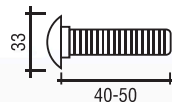
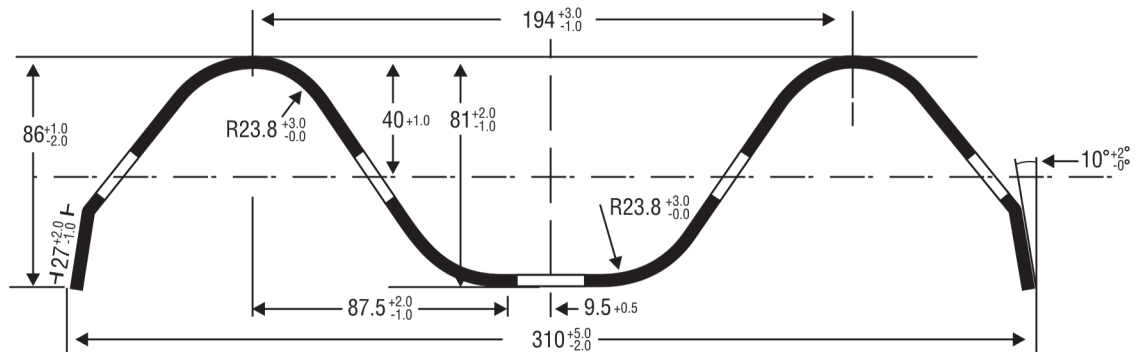
AASHTO M 180 : 2012

Type	Effecton Length (MM)	Overall Length (MM)	Nominal Uncoated / Thickness (MM)	Weight (KG)
1	3810	4128	2.67	44.0
2	4000	4318	2.67	46.0

SECTION THROUGH BEAM



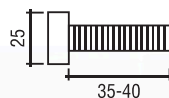
RAIL SECTION



POST BOLT



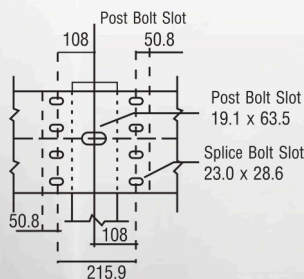
HEX NUT



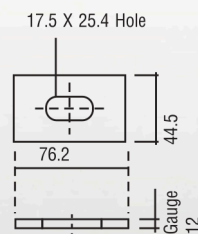
HEX BOLT



ROUND WASHER



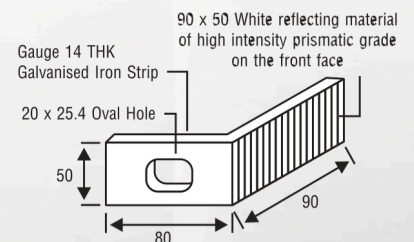
BEAM SPLICE



SPLICE WASHER

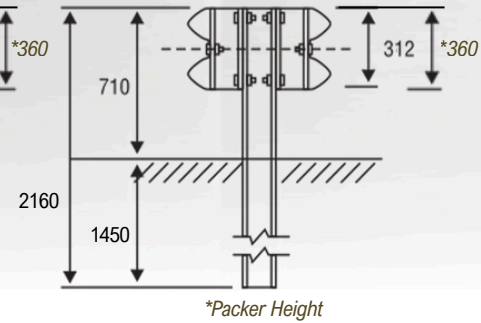
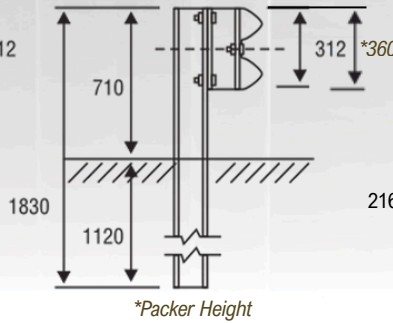
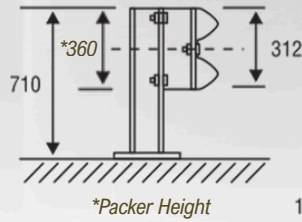
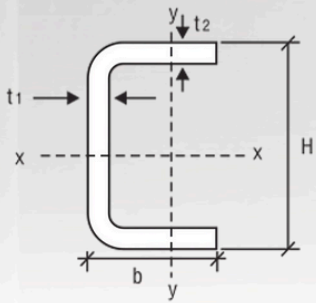


SPLICE BOLT & NUT



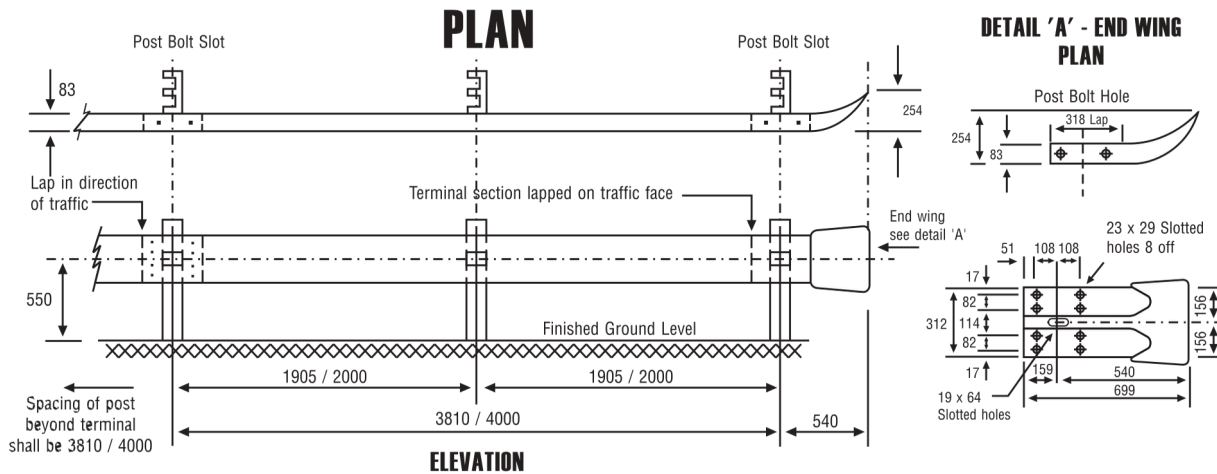
DELINEATOR STRIP

GUARDRAIL POST

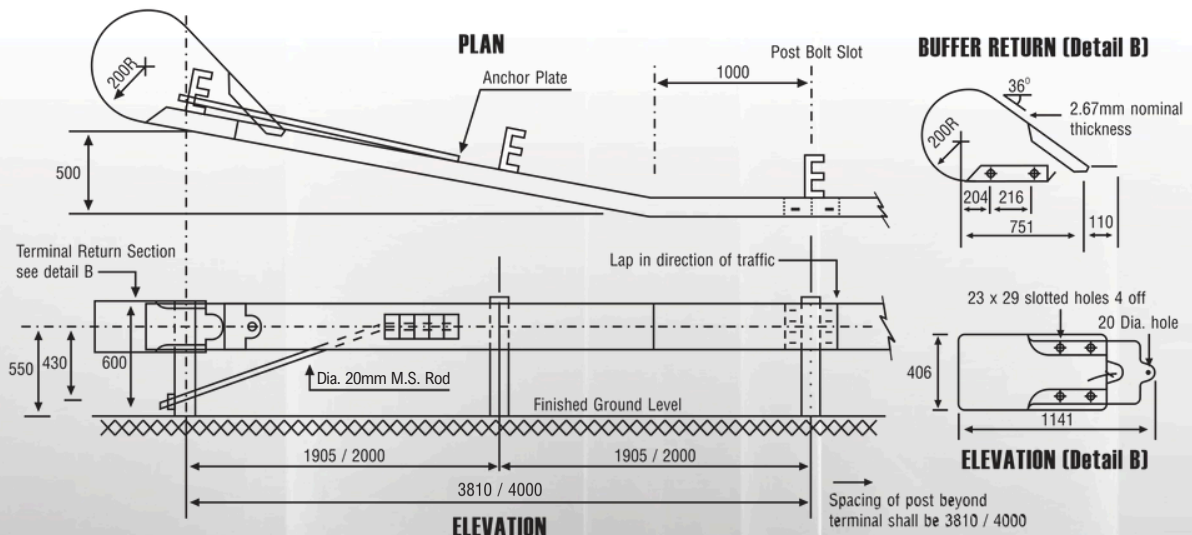


H x b x t2 x t1 (mm)	Unit Weight (kg/m)	Section Area (cm ²)	Moment of Inertia		Section Modulus	
			1x (cm ⁴)	1y (cm ⁴)	Sx (cm ³)	Sy (cm ³)
CP178 x 76 x 6 x 6	14.3	19.08	903.5	102.5	101.5	52.0

TERMINAL UNIT (TYPE 1)

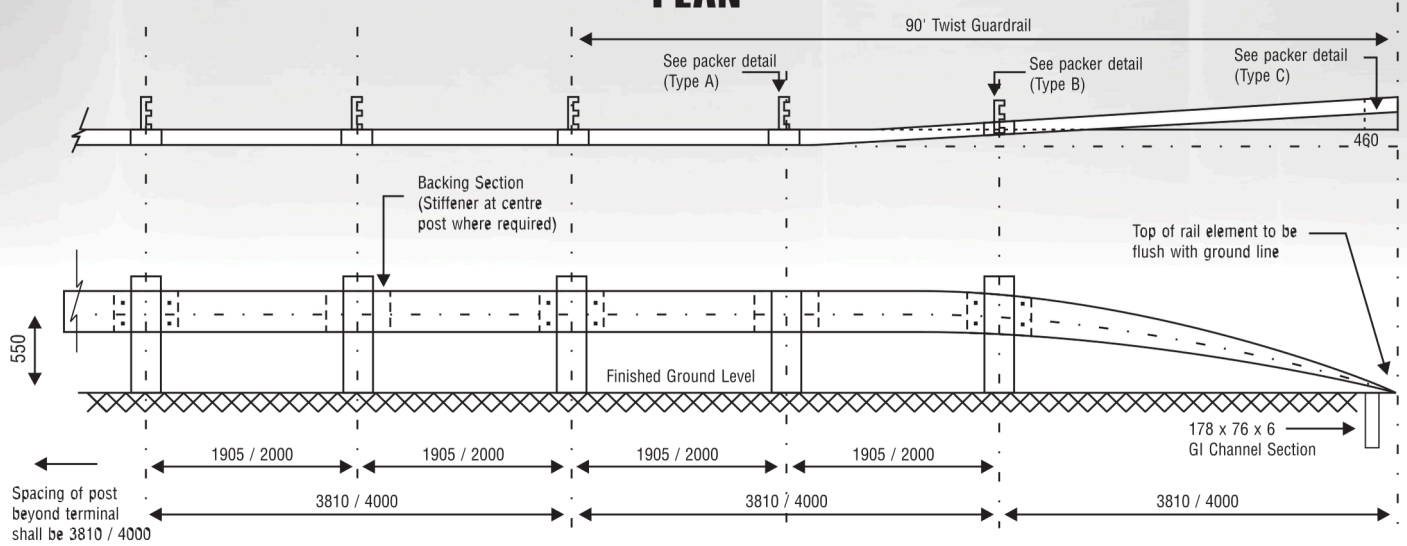


TERMINAL ANCHORAGE UNIT OF FLARE END (TYPE 2)

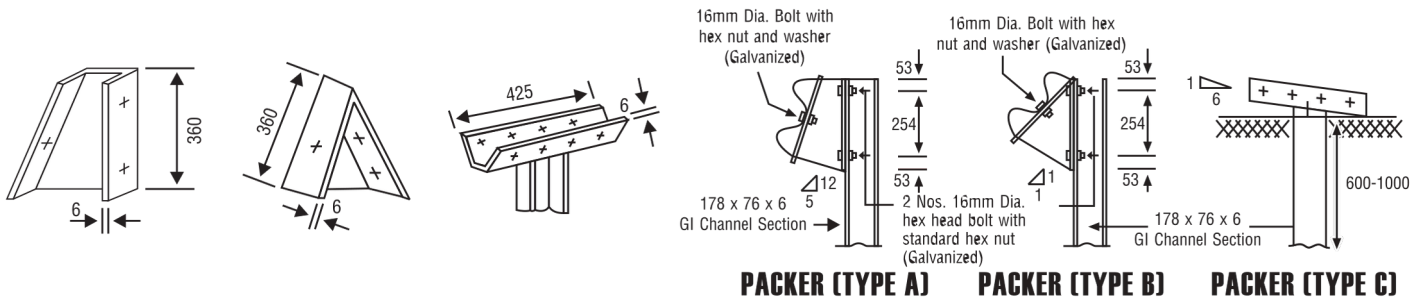


90° TWIST TERMINAL ANCHORAGE UNIT (TYPE 3)

PLAN

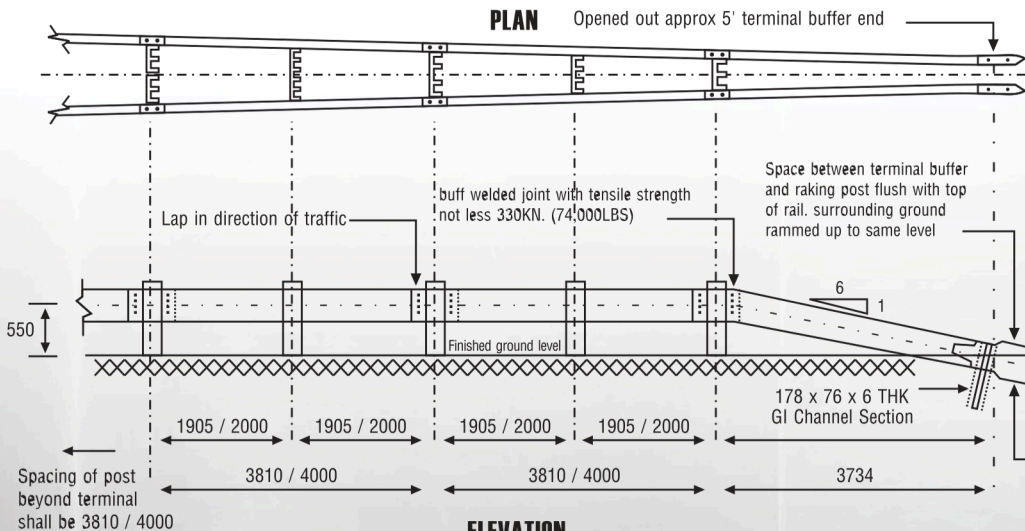


ELEVATION



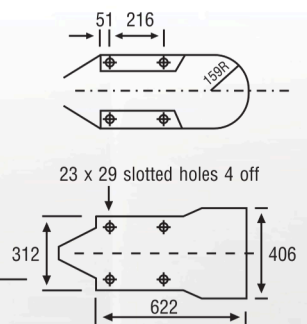
TERMINAL SECTION 1:6 (TYPE 4)

PLAN



TERMINAL BUFFER END (DETAIL 'C')

PLAN



ELEVATION

Terminal buffer end see detail 'C'