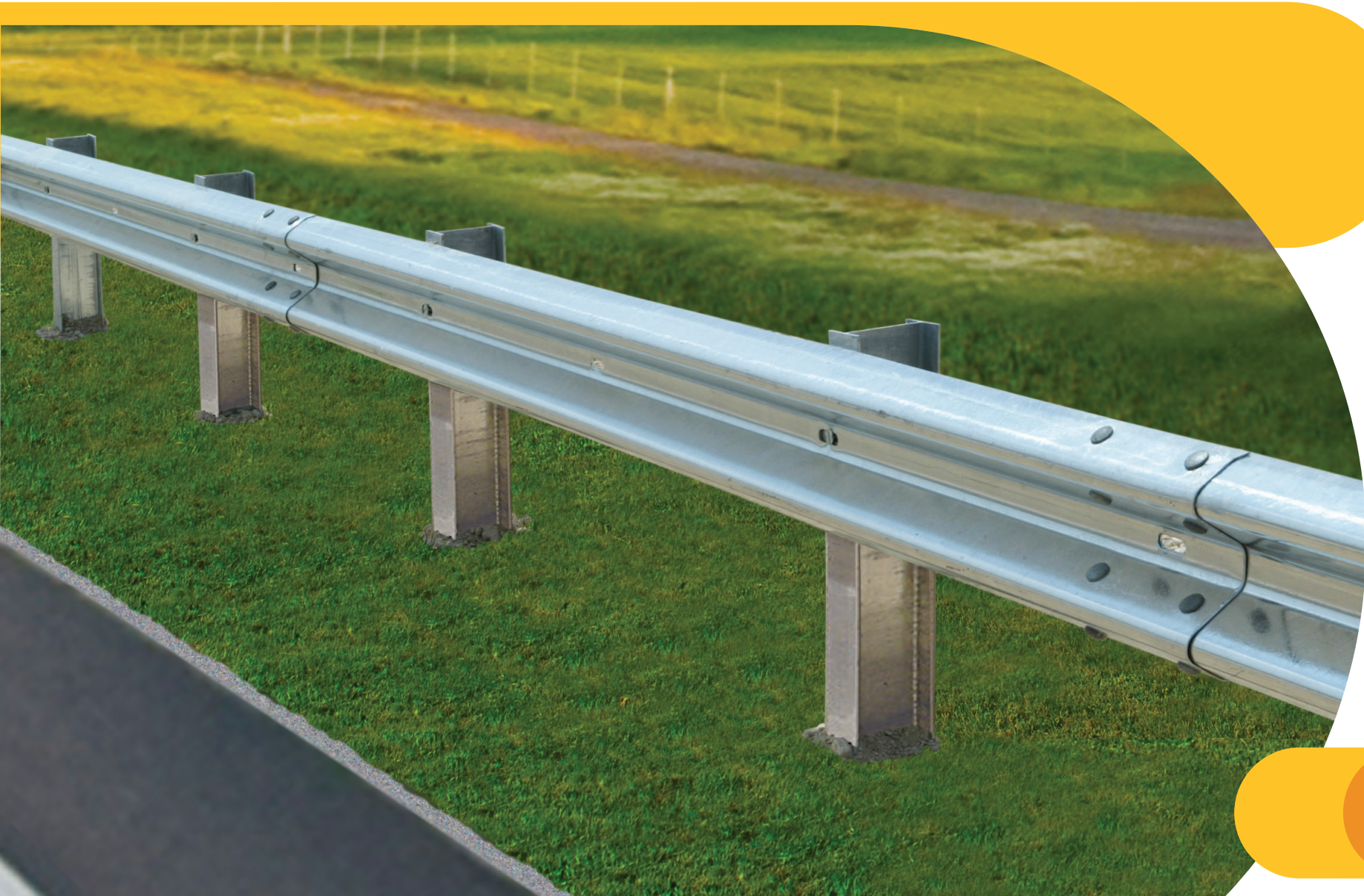


W-Beam & Thrie-Beam Systems

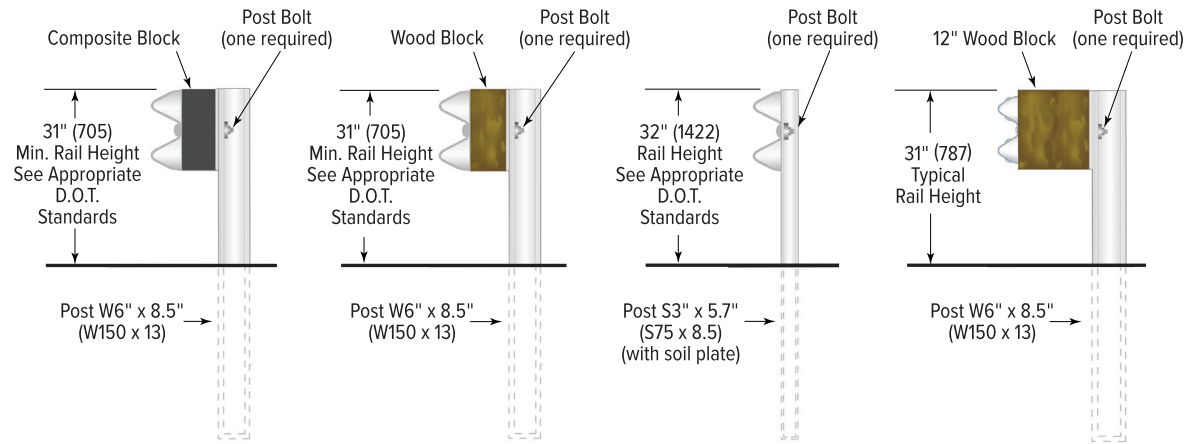
GUARDRAIL



MGS Standard

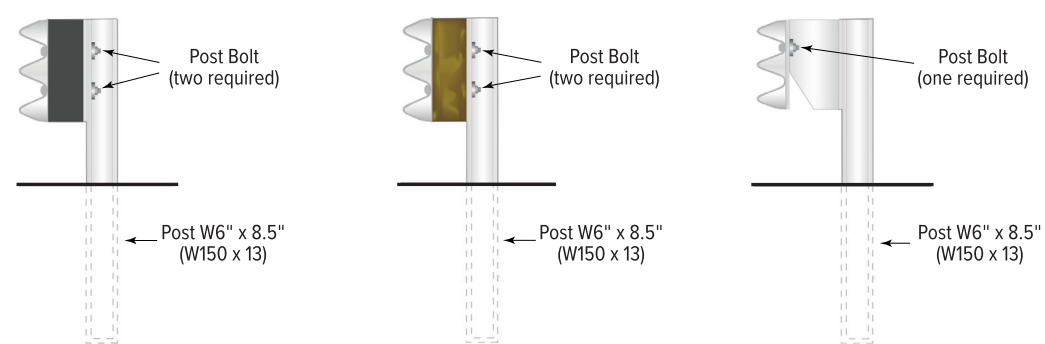


W-Beam Post Systems



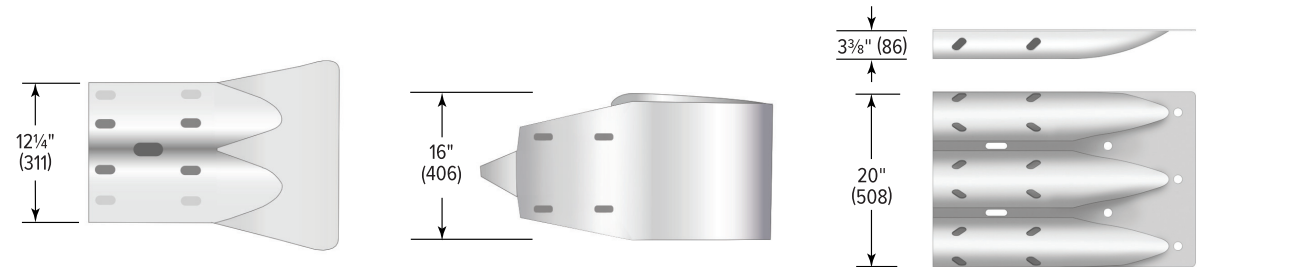
Strong Post With Composite Block **Strong Post With Wood Block** **Weak Post** **MGS Standard**

Thrie-Beam Post Systems

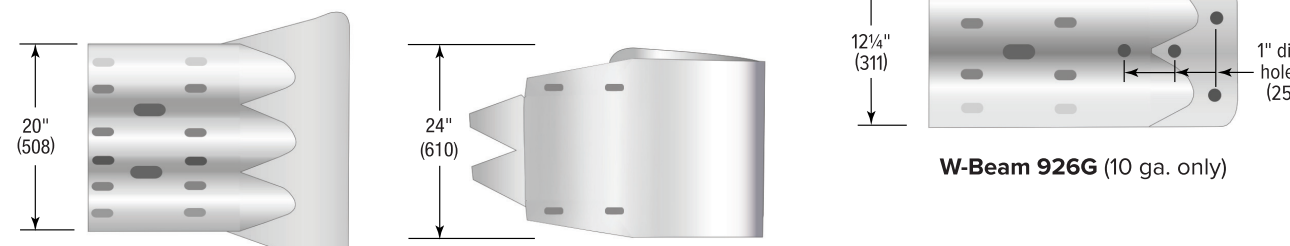


Strong Post With Composite Block **Strong Post With Wood Block** **Strong Post With Modified Steel Block (NCHRP 350 Test Level 4)**

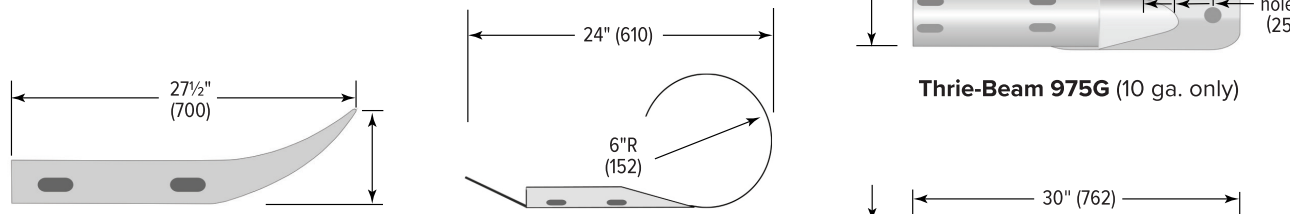
W-Beam & Thrie-Beam Rail End Sections



W-Beam 901G (12 ga.) **W-Beam 850G (12 ga.)** **Thrie-Beam 980G (10 ga. only)**



Thrie-Beam 950G (12 ga.) **Thrie-Beam 957G (12 ga.)** **W-Beam 926G (10 ga. only)**



End Section (Flared) **End Section (Rounded)**

Components are available in 12 gauge or 10 gauge as required (except where noted). Hot dipped galvanized finish only, per ASTM A123. Alternative guardrail systems are available for restricted roadway applications.

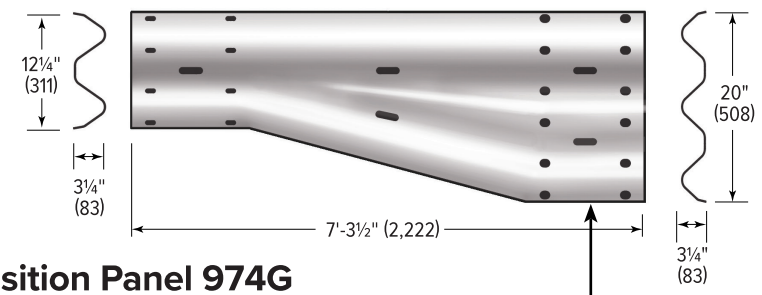
Refer to State DOT Standards for additional details.

W-Beam / Thrie-Beam Center Punching

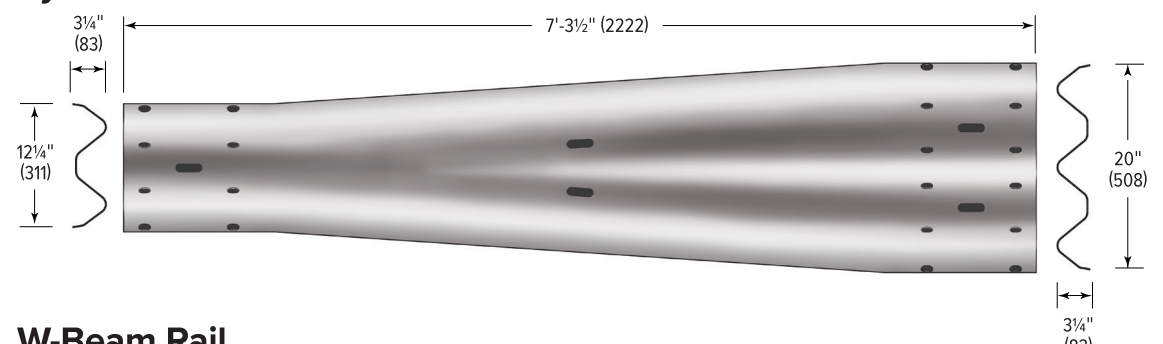
12'-6" (3,810 mm)	SPACING O.C.	25'-0" (7,620 mm)
8G / 208G	12'-6" (3,810 mm)	58G / 258G
9G / 209G	6'-3" (1,905 mm)	60G / 260G
11G / 211G	3'-1 1/2" (952 mm)	61G / 261G

Part numbers shown for 12 gauge and 10 gauge material.

Asymmetrical Thrie-Beam to W-Beam Transition Panels

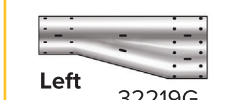


Symmetrical Thrie-Beam to W-Beam Transition Panel 974G



IMPORTANT NOTICE

Transition Panels are available in left and right



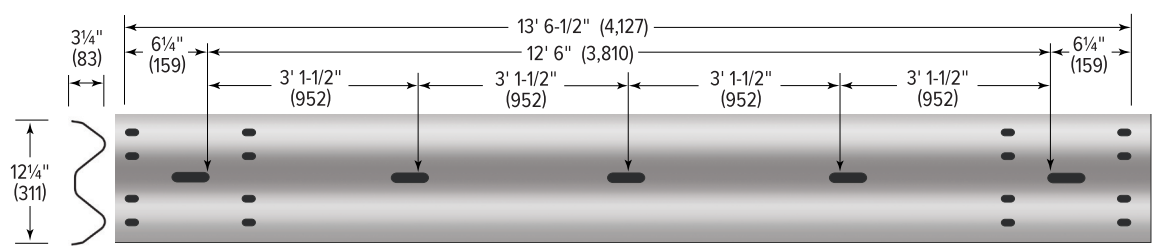
Left 32219G



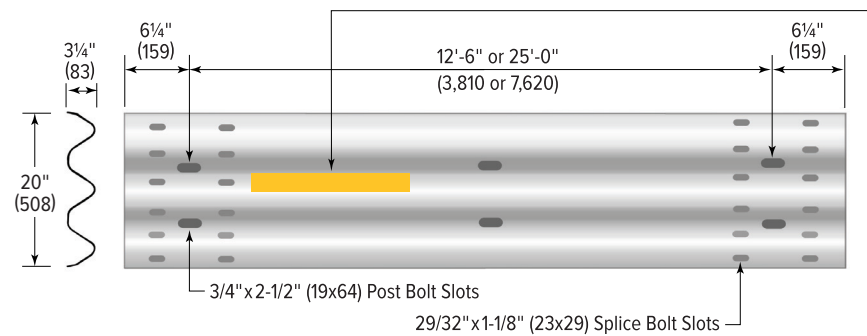
Right 32218G

NOTE: Illustrations are not shown to the same scale.

W-Beam Rail



Thrie-Beam Rail



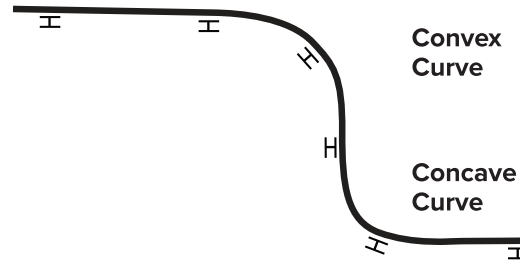
V	M180	A2	01234567	A
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- MANUFACTURER**
V = Valtir, LLC
- AASHTO SPECIFICATIONS**
- CLASS and TYPE**
Class A = 12 gauge
Class B = 10 gauge
Type 1 = Zinc Coated 1.8 oz/ft (550 g/m) minimum single spot
Type 2 = Zinc Coated 3.6 oz/ft (1,100 g/m) minimum single spot
Type 3 = Uncoated Steel
Type 4 = Weathered Steel
- HEAT CODE**
- LOT IDENTIFICATION**

Radius Chart

Rise (D) (Inches)	Radius (R) (Feet)	Rise (D) (MM)	Radius (R) (M)
41	5	1,041	1.5
36	6	914	1.8
28	8	711	2.4
26	9	660	2.7
22	10	559	3.1
20	12	508	3.7
18	13	457	4.0
16	15	406	4.6
14	16	356	4.9
11 5/8	20	295	6.1
9 1/2	25	241	7.6
7 3/4	30	197	9.1
6 3/4	35	171	10.7
6	40	152	12.2
5 1/4	45	133	13.7
4 5/8	50	117	15.2
4 1/4	55	108	16.8
4	60	102	18.3
3 5/8	65	92	19.8
3 3/8	70	86	21.3
3 1/4	75	83	22.9
3	80	76	24.4
2 3/4	85	70	25.9
2 5/8	90	67	27.4
2 1/2	95	64	29.0
2 3/8	100	60	30.5
2 1/8	110	54	33.5
2	120	51	36.6
1 3/4	130	44	39.6
1 5/8	140	41	42.7
1 1/2	150	38	45.7

RADIUS RAIL INFORMATION

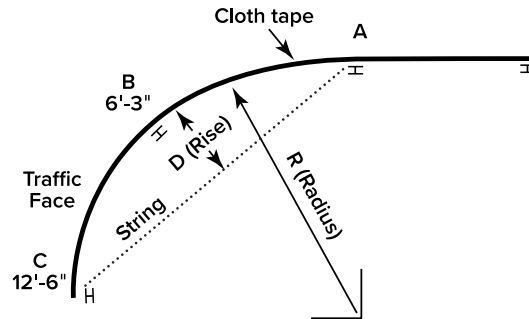


Rail sections specified to be installed on curves having a radius of 5 feet (1.5 m) to 150 feet (45.7 m) can be curved in our fabrication facilities prior to delivery.

Rail can be curved either convex or concave as required. Terms convex or concave refer to the direction curved, outward or inward, relative to the traffic face of the rail.

The diagrams & chart provide data for locating posts and curves. For assistance, please contact our Sales Office.

To Find The Radius For A Curved Rail:



STEP 1: Starting at the last post in the straight run (point A), lay cloth tape along the path that the curved guardrail will follow.

STEP 2: Mark-off two points along the curved cloth tape: One at 6'-3", or 1905 mm (point B) and the second at 12'-6" or 3,810 mm (point C).

STEP 3: Pull string directly from starting point (point A) to the second mark-off point (point C).

STEP 4: Measure from the first mark-off point (point B) over to the mid-point of the taut string. This measurement (D) is the Rise.

STEP 5: Check the chart to find the Radius (R), given the Rise (D). Example: a Rise of 4 inches (102 mm) would result in a radius of 60 feet (183 m).

Note: Follow the steps for each piece of rail section in the curved run. The arc may not be consistent and each consecutive piece of rail may differ in radius from the previous one. Please consult with an individual approved by the governmental authority specifying and supervising the installation of the guardrail.

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