HIGHWAY SAFETY PRODUCT GUIDE

Reliability AT EVERY TURN



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To meet the challenges of today's highways, you need complete solutions that are strong, long lasting and easy to install. And you deserve a supplier you can rely on for quick turnarounds and responsive service. Partner with Gregory Highway, the national leader in roadside safety.

Gregory Highway converts ideas into forward-thinking, trusted products that offer constant protection and lifesaving potential. Our capabilities are driven by our commitment to excellence in roadside safety.

Find out what sets us apart.

CONTINUOUS GALVANIZING EXPERTISE

Compared to traditional batch dip methods, our specialized continuous galvanizing process provides zinc-coated steel sheets with intrinsic quality and consistent thickness.

METAL FORMING EXCELLENCE

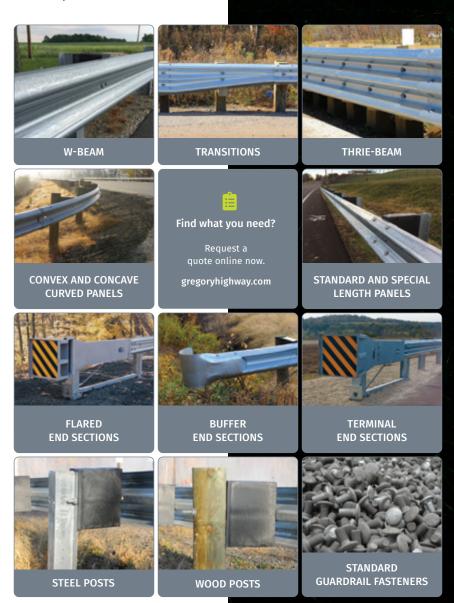
Our manufacturing team has years of proven metal forming experience as well as dedicated skills in metal punching, sawing, shearing and drilling.

WIDE PRODUCT INVENTORY

We have a full selection of raw material and processed steel along with the ancillary components needed for highway guardrail systems and end treatments.

GUARDRAILS

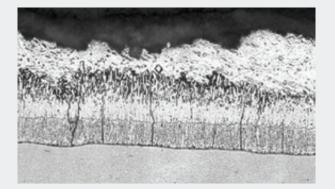
Roadside safety begins with guardrail products from Gregory Highway. Contractors prefer our W-Beam and Thrie-Beam guardrails for their easy installation and long service life. Whether your project calls for W-Beam or Thrie-Beam, curved or straight sections, we deliver complete guardrail systems to ensure continuous performance and fast, safe installations.



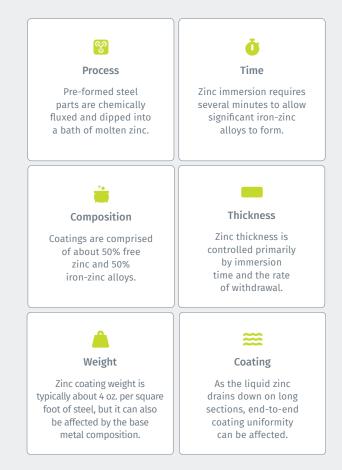
GUARDRAILS

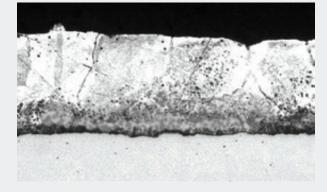
Components that meet today's standards

There are two galvanizing methods for commercially coated guardrail: batch dip galvanizing and continuous galvanizing. While either method is capable of producing a product that meets guardrail technical specifications, the coating processes differ and produce significant metallurgical differences in the structure and characteristics of the finished galvanized coating.

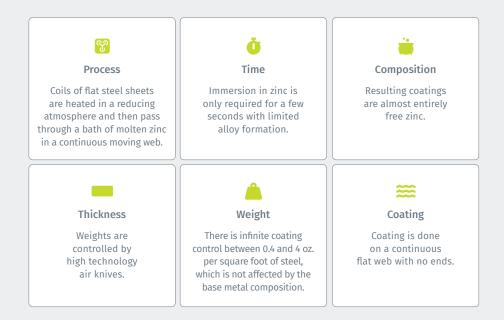


Batch dip galvanizing





Continuous galvanizing

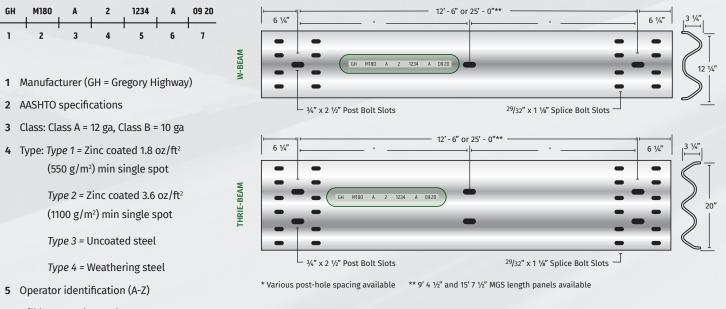




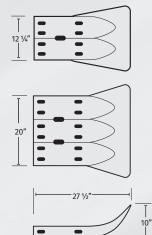
THE CONTINUOUS GALVANIZING DIFFERENCE

Gregory Highway's continuous galvanizing process is the key to better highway guardrail products. We galvanize entire steel coils before they are roll-formed rather than after. The result is a uniform and smooth zinc coating across the entire surface of the guardrail that provides superior performance, improved corrosion resistance, safer handling and easier installation.

STAMPING CODES



- 6 Mill heat number code
- 7 Galvanized lot: 09 = Week (9th week)20 = Year (2020)



FLARED END SECTION (12 GA)



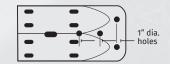
24

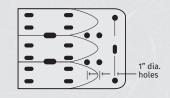
6 ⁵/₁₆" F

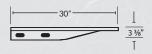
16 1⁄4"

24'

TERMINAL CONNECTOR PARAPET (10 GA)



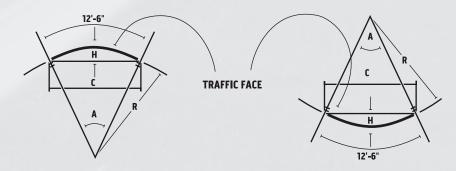




FINDING THE RADIUS

Functions of 12'6" Arch for Different Radii

Guardrails can be curved in our fabricating facilities for installation on stretches of road with radii of 5 to 150 ft. The terms convex and concave refer to the inward or outward curve relative to the traffic face of the guardrail. Follow these steps to measure the radius of each piece of guardrail section in the curved run:



NOTE:

RADII

5

The arc may not be consistent across every guardrail in the curved run, and each consecutive piece of guardrail may differ in radius from the previous.

CHORD

9'5 ⁷/8"

HEIGHT / RISE

3'5"

ANGLE

143° 14'

Finding the radius of a curved guardrail:

Starting last post straight run lay cloth ta the path t curved gu will fol	at the in the (point A), pe along hat the ardrail		Step 2 Mark off two points along the curved cloth tape: one at 6'3" (point B) and the second at 12'6" inches
WILL TOL	low.		(point C).
Step	3		Step 4
Pull the directly fr starting (point A) second m point (po	om the point to the ark off		Measure from the first mark off point (point B) over to the midpoint of the taut string. This measurement (D) is the rise.
	Ste	ep	5
	Check t to find the given th Examp	e r e le:	radius (R) rise (D).

of 3 ¹/₈ in. would result in a radius of 60 ft.

10	71 [°] 37'	11'8 ³/ ₈ "	1'10 ³/4"
15	47° 45'	12'1 ³ / ₄ "	1'3 ³/8"
20	35° 49′	12'3 ⁵ / ₈ "	11 ⁵ / 8"
25	28° 39'	12'4 ¹ / ₂ "	9 ³/ ₈ "
30	23 [°] 52′	12'4 ⁷ / ₈ "	7 ³/₄"
35	20° 28'	12'5 ¹ / ₈ "	6 ⁵ / ₈ "
40	17 [°] 53'	12'5 ³/ ₈ "	5 ⁷ / ₈ "
45	15 [°] 55'	12'5 ¹ / ₂ "	5 ¹ / ₄ "
50	14 [°] 19'	12 ' 5 ⁵ / ₈ "	4 ⁵ / ₈ "
55	13° 01′	12 ' 5 ⁵ / ₈ "	4 ¹ / ₄ "
60	11 [°] 56'	12'5 ³ / ₄ "	3 ⁷ /8"
65	11° 01′	12'5 ³/4"	3 5/8"
70	10° 14′	12'5 ³/4"	3 ³/8"
75	9° 33'	12'5 ³/4"	3 ¹ / ₈ "
80	8 [°] 57'	12 ' 5 ⁷ / ₈ "	3"
85	8° 26'	12 ' 5 ⁷ /8"	2 ³ /4"
90	7° 58′	12 ' 5 ⁷ / ₈ "	2 ⁵ / ₈ "
95	7° 32′	12 ' 5 ⁷ / ₈ "	2 ¹ / ₂ "
100	7° 10'	12 ' 5 ⁷ / ₈ "	2 ³/8"
110	6° 31′	12 ' 5 ⁷ / ₈ "	2 ¹ / ₈ "
120	5° 58'	12'6"	2"
130	5° 31'	12'6"	1 ³ /4"
140	5° 07'	12'6"	1 ⁵ / ₈ "
150	4° 47'	12'6"	1 ¹ / ₂ "

BARRIERS



SAFENCE



HIGH TENSION CABLE BARRIER SYSTEM

In medians and embankment slopes where forceful collisions are common, SAFENCE is the top cable barrier solution. On impact, the cables gain lateral resistance and remain restrained by the end anchors, helping to safely redirect vehicles.

Safety Roller Barrier (SRB)



MASH TL-4 LONGITUDINAL BARRIER

Ideal for roadside or median applications, SRB is designed to minimize damage on impact by safely converting crash energy into rotational energy. The MASH TL-4 approved design allows SRB to sustain minor impacts with less damage to the vehicle and barrier system.

Guardian 5 (G5)



MASH TL-5 LONGITUDINAL BARRIER

Designed to safely capture and redirect a fully loaded, 80,000-lb. vehicle, G5 is intended for use on roadways with high truck traffic, where drainage is a concern and as bridge pier protection. G5 is a more cost-effective alternative to concrete barriers and meets all MASH TL-5 standards.

NatureRail



SCENIC GUARDRAIL SYSTEM

NatureRail offers a safe, aesthetic alternative to standard steel guardrail. Perfect for scenic highways and park settings, galvanized steel parts and weather resistant wood guarantee a long working life without maintenance.



MASH approved end sections

Gregory Highway supplies complete guardrail systems for every specification. We meet your full project requirements with standard end sections and energy-absorbing end treatments for wood or steel post designs.

MASH SEQUENTIAL KINKING TERMINAL

MSKT is an energy-absorbing, tangent terminal that is MASH TL-3 compliant. During head-on impacts, the MSKT head slides over the W-Beam guardrail, sequentially kinking it. The kinked rail exits the head and the vehicle comes to a controlled stop, using the same effective technology seen in NCHRP 350 SKT field performance. When impacted along the side within the length of need, MSKT functions like a guardrail, containing and safely redirecting vehicles.

MASH FLARED ENERGY ABSORBING TERMINAL

MFLEAT is an industry-leading flared terminal end, combining impressive impact resistance, safe handling and easy installation. Featuring a wide impact face and field-proven technology, MFLEAT safely dissipates crash energy during head-on collisions. With easy delivery and interchangeability with some MSKT parts, MFLEAT can help make your highway safety installations quicker, more efficient and more cost effective.





> ATTENUATOR

AILEN

TTMA-200

TRAILER TRUCK MOUNTED ATTENUATOR Designed for use in mobile and stationary work zones, TTMA-200 helps to keep your most valuable assets protected in the event of a work zone intrusion. Its patented, energy-absorbing technology offers flexible performance at a competitive price and meets all required MASH TL-3 testing standards.

Made from galvanized steel, TTMA-200 can be used with most supporting vehicles weighing 10,000 lbs. or more. Its flexible configuration is easily adaptable to sweeping, salting, mowing and striping operations, and it can be switched between host vehicles in minutes.





UATOR





♦ FIVE GENERATIONS

Continuing the Gregory legacy

GREGORY HIGHWAY IS A DIVISION OF GREGORY INDUSTRIES

Gregory Industries has a proud legacy of galvanizing and metal forming expertise. For more than 100 years and five generations, the Gregorys have dependably served customers across the nation, treating them like family.

The growth of Gregory Industries is a result of its dependable service, reliable inventory and history of coming through. With a commitment to quality and constant drive to improve, Gregory Industries exceeds expectations at every turn – because excellence is a continuous process.

Gregory Highway is proud to carry on the legacy.

CUSTOMER PROMISES

Gregory Highway has built a longstanding reputation for responsible manufacturing and dependable roadside safety solutions. See how we pave the way for customer success.



Convenient deliveries

Gregory Highway supplies the components you need to complete your projects on time and on budget. We have logistics specialists on call and a fleet of trucks on site, so we can expedite any order and ensure on-time deliveries.

Reliable service

We want you to be satisfied with your order, and we want to be your supplier for years to come. To ensure your full satisfaction, we offer proven products, knowledgeable sales professionals and delivery assurance on every order.

Easier installations

Continuous galvanizing eliminates rough edges that can cause cuts or more serious injuries during installation. Sections fit together easily, saving you time and labor, and consistent zinc coatings resist corrosion over time.



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Partner with Gregory Highway

gregoryhighway.com





Gregory Highway is a division of Gregory Industries