



GSI'S INVENTORY OF GUARDRAIL PRODUCTS INCLUDES:

Delivery available Monday through Friday. Customer pick up available from 7:00 a.m. to 4:30 p.m.

GUARDRAIL (MBGF)

- 25' W-Beam (12 GA) with 0, 3'-1½", 6'-3", 8'-4", 12'-6" post hole centers
- 12'-6" W-Beam (12 GA) 0, 6'-3" hole centers
- 6'-3" W-Beam (12 GA)
- Radiused 12'-6" W-Beam (12 GA) at 5' to 60' radii
- T6 Bridge Rail Panels & Hardware

POSTS (STATE & NON-STATE)

- Domed Timber Post 6'-3"
- Steel Line Post for W-Beam and ThrieBeam rails
- Steel Base-Plated Post 2'-4", 5'-0" (Culvert)
- Steel Terminal Anchor Post
- Composite Blocks (Spacers) for Timber and Steel Posts (6"x8"x14")

END TREATMENTS

- SGT (ET2000/SKT) Type I, II, III, and Repair Parts
- Terminal Anchor Section ("TAS" or "turndown")
- Flared End Wing ("Lobster Tail")
- Terminal Connector Shoe ("End Shoe")
- Rounded Terminal Connector ("Question Mark")
- 90 Degree Corner (Fabricated)
- Median Terminal Buffer, 6" and 11 1/8" Radii

Can you guess what the photos below are of?
Visit our Guardrail Webpage to find the answers.
www.gsihighway.com/guardrail.htm

TRANSITIONS

- Thrie-Beam
- T101
- TL2 (Low Speed)
- MGS Thrie-Beam

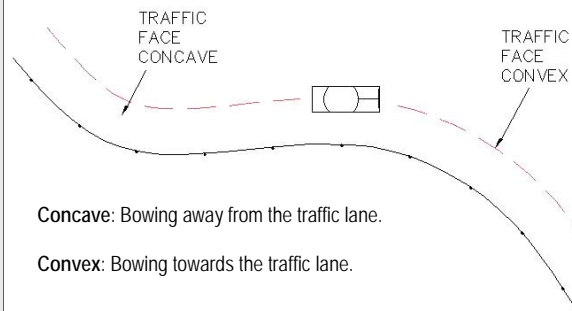
NEED HELP WITH A TAKEOFF OR PLACING AN ORDER?

It is important we know the following to ensure you get the product you need the first time:

- Is this a state or non-state job? State-tested inventory cannot be shipped to non-state jobs.
- If it is a state job, what is the project information?
- How many runs are there?
- Is the rail blocked out?
- Do you need radiused rail? How many curves? Length? Radius of each?
- Steel or timber posts?
- Are there low-fill culverts that will require base-plated posts? How thick is the culvert "top"?
- What end treatments do you need? TAS?, FEW?, SKT? SGT Type I, II, or III?
- To what type of concrete railing are we attaching the transitions?

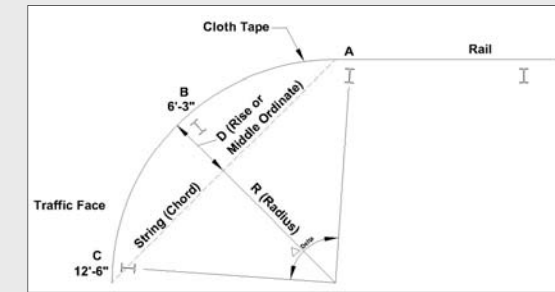
Providing **takeoff assistance** is just another value-added service we're glad to offer!

Radius Guardrail is either concave or convex (shown below).



All our products are TxDOT approved. We have been doing business in Texas for almost 40 years. **WE STAND BEHIND OUR REPUTATION!**

FUNCTIONS OF A 12'-6" ARC FOR DIFFERENT RADI



| Radius | Delta | Chord | Rise |
|--------|----------|------------|------------|
| 5 | 143° 14' | 9'-5 7/8" | 3'-5" |
| 10 | 71° 37' | 11'-8 3/8" | 1'-10 3/4" |
| 15 | 47° 45' | 12'-1 3/4" | 1'-3 3/8" |
| 20 | 35° 50' | 12'-3 5/8" | 11 5/8" |
| 25 | 28° 39' | 12'-4 3/8" | 9 3/8" |
| 30 | 23° 52' | 12'-4 7/8" | 7 3/4" |
| 35 | 20° 28' | 12'-4 3/4" | 6 5/8" |
| 40 | 17° 54' | 12'-4 7/8" | 5 7/8" |
| 45 | 15° 55' | 12'-5" | 5 1/4" |
| 50 | 14° 20' | 12'-5 1/8" | 4 5/8" |
| 60 | 11° 56' | 12'-5 1/4" | 3 7/8" |
| 70 | 10° 14' | 12'-5 3/8" | 3 3/8" |
| 80 | 8° 56' | 12'-5 1/2" | 3" |
| 90 | 7° 57' | 12'-5 5/8" | 2 5/8" |
| 100 | 7° 10' | 12'-5 3/4" | 2 1/8" |
| 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° 7' | 12'-6" | 1 1/8" |
| 150 | 4° 46' | 12'-6" | 1 1/2" |

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 guide rail will follow.
- Step 2:** Mark-off two points along the curved cloth tape: one at 6'-3" (point B) and the second at 12'-6" (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 marked-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 3 7/8" inches would result in a Radius of 60 feet.

Note: Follow the steps above 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.

