

Bore-Gard

PVC trenchless raceway

The unique design incorporates a proprietary water-tight seal and locking ring that enables fast, cement-free assembly, strong enough for 1000 foot bores.

Benefits

- Lower overall installed cost – simpler handling, faster assembly, lower labour cost
- Lower freight cost
- Greater internal fill capacity – Bore-Gard does not distort into an oval during spooling
- No wasted product
- Easier to transport, especially over rough terrain – one length of Bore-Gard can be carried by one person
- Strong and flexible for directional drilling applications
- Use standard PVC fittings – Bore-Gard is made using standard Schedule 40 dimensions – can be cemented
- No reel handling equipment required – Bore-Gard can be unloaded by hand
- No fusion splicing equipment required to join two pipe sections – Bore-Gard is joined together by one person
- No costly reels to return – with Bore-Gard, there are no reels to handle

01 Trim spigot end before attaching pulling eye.

02 Tighten pulling eye so that it expands against interior of the conduit.

03 Attach the next piece of Bore-Gard.



01



02



03

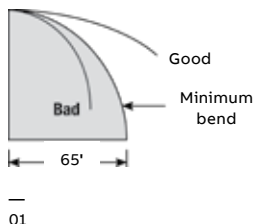
Assembly

1. Position Bore-Gard with the print line facing up.
2. Remove plastic locking strap and set it aside.
3. Remove end caps. On first stick only, trim spigot end of Bore-Gard at the groove before attaching the pulling eye/gripping attachment.
4. Insert pulling eye into spigot end of Bore-Gard.
5. Tighten pulling eye so that it expands against the interior of the conduit. Use of sleeve over O.D. of conduit is recommended.
6. The installer should use appropriate instrumentation to ensure that maximum pull rating is not exceeded.
7. Take next piece of Bore-Gard (10' or 20') and insert spigot end into belled end of the first piece until the insertion line is no longer visible.
8. Slide the plastic locking strap into slot on the side of the bell. Push the strap in completely. It is not necessary to remove or cover the handle on the strap.
9. Repeat with remaining sections as space allows.
10. Bore-Gard is now ready for installation.

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01 Minimum bend radius: Turns in a bore path should be made gradually. Bore-Gard and boreable Multi-Gard have a minimum bend radius of 65'. Bending more than this recommended limit will stress the joint. The drawing on the left illustrates the 65' bend radius. To obtain a 90° turn, you will require 65' of forward distance in any directional plane.



01

Precision-engineered design has matching grooves and nylon locking strap to provide a secure connection

Positive stop automatically aligns strap grooves

Triple-lobed gasket designed to provide ease of assembly and a watertight seal



Insertion depth indicator tells at a glance if pipe ends are inserted to the correct depth

Heavy walls and deep insertion make the joint immune to the effects of normal bending

The belled end will not snag when pulled into a bore

Technical information

| | |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Axial tensile rating | 3 in. - 7,000 pull-apart rating 4 in. - 8,700 pull-apart rating 5 in. - 11,300 pull-apart rating 6 in. - 14,000 pull-apart rating |
| Minimum bend radius | 65 feet – assembly force 20 lb |
| Seal pressure rating | 75 psi |
| Stiffness rating | 600 lb/in. @ 5% defl. |
| Lengths | 10 ft. and 20 ft. |
| Restrained joint in bell | Locking ring/ groove design |



| Cat. no. | Description | Overall length (ft.) | Lay length | O.D. (in.) | I.D. (in.) | Pkg. qty (ft./bundle) | Bundles per truckload | Feet per truckload | Wt. per 100 ft. (lb) | Min. bend radius (ft.) | Insertion force (lb) | Seal pressure rating (psi) | Joint pull rating (lb) | Typical crush (lb) (@ 30% deflection) | NEMA TC2 min. crush (lb) |
|-------------|---------------|----------------------|------------|------------|------------|-----------------------|-----------------------|--------------------|----------------------|------------------------|----------------------|----------------------------|------------------------|---------------------------------------|--------------------------|
| BG340SP-010 | 3 in. Sch. 40 | 10 | 9'6" | 3.50 | 3.0 | 350 | 56 | 19,600 | 164 | 65 | 20 | 75 | 7,000 | 1,225 | 1,000 |
| BG340SP-020 | 3 in. Sch. 40 | 20 | 19'6" | 3.50 | 3.0 | 700 | 28 | 19,600 | 164 | 65 | 20 | 75 | 7,000 | 1,225 | 1,000 |
| BG440SP-010 | 4 in. Sch. 40 | 10 | 9'6" | 4.50 | 4.0 | 260 | 56 | 14,560 | 234 | 65 | 40 | 75 | 8,700 | 1,075 | 900 |
| BG440SP-020 | 4 in. Sch. 40 | 20 | 19'6" | 4.50 | 4.0 | 520 | 28 | 14,560 | 234 | 65 | 40 | 75 | 8,700 | 1,075 | 900 |
| BG540SP-010 | 5 in. Sch. 40 | 10 | 9'6" | 5.56 | 5.0 | 230 | 40 | 9,200 | 317 | 65 | 60 | 75 | 11,300 | 950 | 900 |
| BG540SP-020 | 5 in. Sch. 40 | 20 | 19'6" | 5.56 | 5.0 | 460 | 20 | 9,200 | 317 | 65 | 60 | 75 | 11,300 | 950 | 900 |
| BG640SP-010 | 6 in. Sch. 40 | 10 | 9'6" | 6.625 | 6.0 | 200 | 40 | 8,000 | 418 | 65 | 80 | 75 | 14,000 | 950 | 900 |
| BG640SP-020 | 6 in. Sch. 40 | 20 | 19'6" | 6.625 | 6.0 | 400 | 20 | 8,000 | 418 | 65 | 80 | 75 | 14,000 | 950 | 900 |