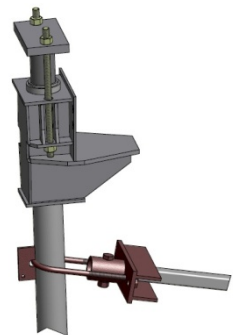
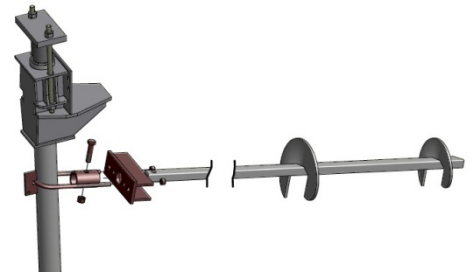


Model 288 Rotational Restraint System with HP287/288 or PP288 Pier Systems Technical Specifications

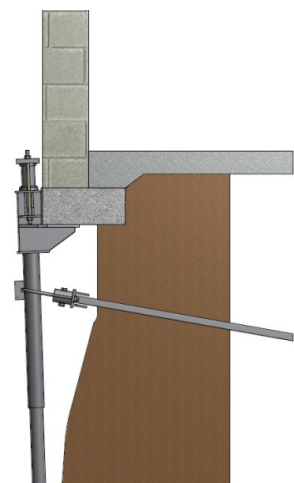
- U-Bolt Capture Plate:** 0.38"-thick steel plate. ASTM A36, yield strength = 36 ksi (min.).
- Adapter Beam:** Weldment manufactured from 0.38"-thick steel plate. ASTM A36, yield strength = 36 ksi (min.).
- Lock Collar:** $\varnothing 2.75 \times 0.313$ " wall x 4.00" long DOM tube. ASTM A513 Type 5 Grade 1026, yield strength = 70 ksi (min.).
- Hardware:** $\varnothing 3/4$ " mechanically galvanized Grade 8 bolt and nut.
 $\varnothing 5/8$ " zinc plated U-Bolt with nuts. ASTM A108
Grade 1018 – cold drawn, yield strength = 70 ksi (min.).
- Finish:** Available plain or with hot-dipped galvanized coating in accordance with ASTM A123.



Allowable Restraint System Capacity: Not Applicable
(Capacity is based on project specific loads and installation variables)

Notes:

1. Model 288 Rotational Restraint System is designed for use with FS288B and FS288BV bracket assemblies.
2. The rotational restraint system is used to provide rotational stability to the bracket assembly when there is an exposed pier shaft length. The installed tieback capacity will vary based on the project loads and the installed geometry. Resulting horizontal component will vary with the installed angle of the tieback anchor. Vertical component of the tieback anchor force should be accounted for in the pier design.
3. The capacity of the helical tieback anchor is determined by torque correlation, field testing, or calculation by approved methods. See the FSI Technical Manual current edition for more information.
4. See separate technical specifications for information on the bracket, pier, and anchor components.



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