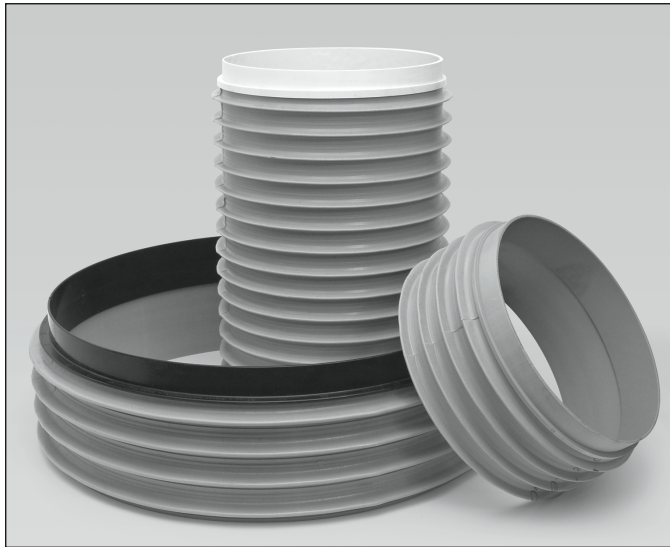


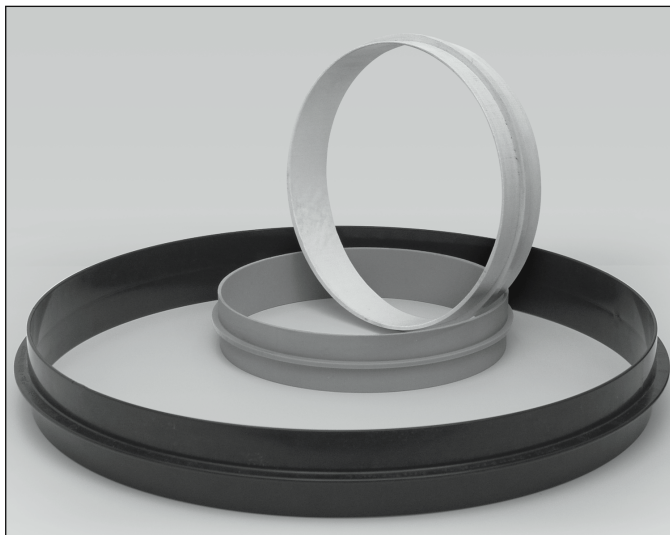
Grade Rings & Grade Ring Inserts

Applications

Orenco's grade rings extend existing access risers to needed lengths. Orenco's grade ring inserts connect sections of access riser pipe for strong, watertight bonding.



Orenco® grade rings with grade ring inserts attached



Orenco grade ring inserts

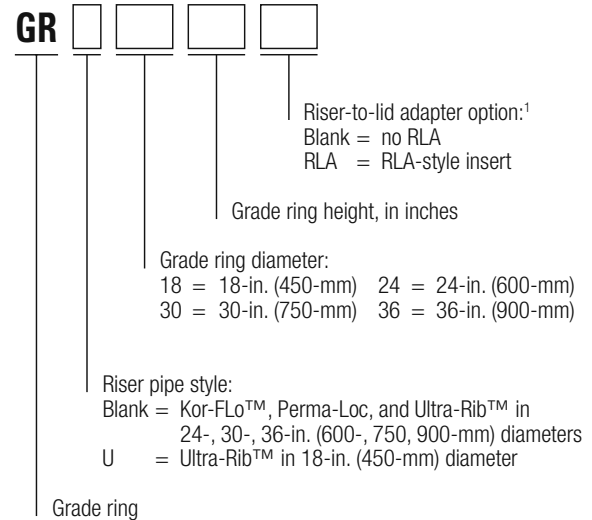
General

An Orenco® grade ring is constructed of a section of PVC riser pipe with an insert affixed to its edge. The grade ring insert is bonded to the end of the riser to serve as a coupling. MA320 or ADH200 adhesive is used to bond grade ring inserts to riser pipes.

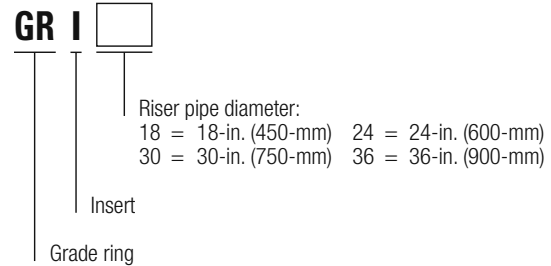
Standard Models

See specifications chart on page 2 for standard models of grade ring inserts.

Product Code Diagrams



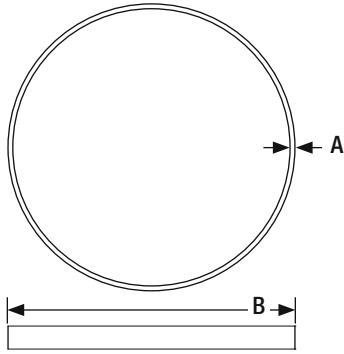
¹ For 24-in. (600-mm) grade rings only



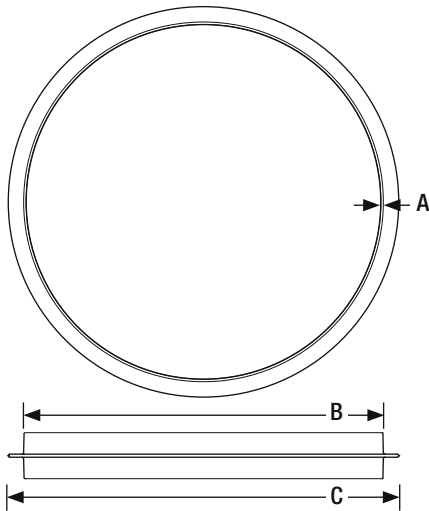
Materials of Construction

Grade Ring Inserts

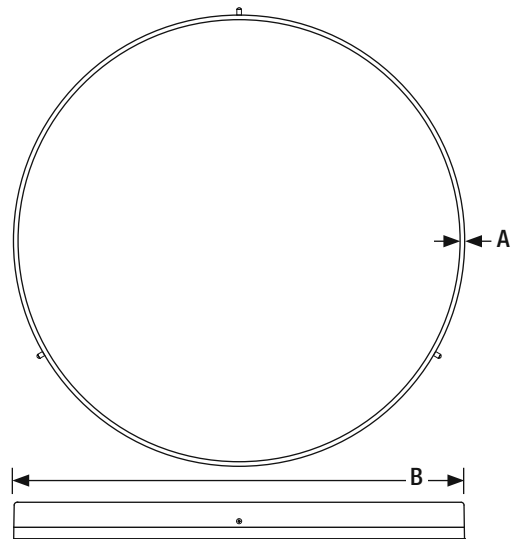
18-inch (450-mm)	PVC
24- and 30-inch (600-, 750-mm)	ABS
30-inch (750-mm)	Fiberglass
Screws and spacers (GRI30 only)	Stainless steel and nylon
Ribbed riser pipe	PVC



GRI18, top and side view



GRI24, top and side view



GRI30, top and side view

Specifications

Grade ring inserts*	GRI18	GRI24	GRI24RLA	GRI30	GRI36
A - Insert thickness, in. (mm)	0.30 (8)	0.30 (8)	0.30 (8)	0.20 (5)	0.25 (6)
B - Outer diameter, in. (mm)	18.70 (475)	23.50 (597)	24.38 (619)	29.25 (743)	35.5 (902)
C - Flange outer diameter, in. (mm)	N/A	24.50 (622)	N/A	N/A	N/A
Pipe applications	Ultra-Rib	Ultra-Rib, Perma-Loc, Kor Flo™	24-in. (600-mm) pipe with RLAs	Ultra-Rib, Perma-Loc, Kor Flo	Perma-Loc, Kor Flo

* All inserts adapt to the I.D. of the riser, except the GRI18, which adapts to the O.D. of the riser.

Specifications for pipe portion of grade rings can be found on Access Riser technical data sheets NTD-RLA-RR-1 and NTD-RLA-RR-2.