

# ALIGNMENT BARRIER

*Grade Ring Alignment System.*



**This specially designed alignment barrier will give you a perfectly aligned manhole chimney every time. Manufactured from a Linear Low Density Polyethylene that has excellent long term weatherability (UV8), balance of toughness and rigidity, excellent low temperature impact, and excellent ESCR. The barrier has been designed with a rib top section to prevent deflection.**



Ess Brothers & Sons, Inc.

9350 County Road 19 ♦ Loretto, MN 55357 ♦ 763-478-2027 ♦ 800-478-2027 ♦ Fax 763-478-8868 ♦ [www.essbrothers.com](http://www.essbrothers.com)

# ALIGNMENT BARRIER

## ESS BROTHERS & SONS, INC.

### APPLICATION STANDARDS & TECHNICAL, DATA TEST RESULTS

Property	Measuring Condition	Alignment Barrier
Flexural Modulus-tangent, psi	ASTM-D790	115000 psi
Elongation (at break %)	ASTM-D 638	400%
Tensile Strength	ASTM-D638	2,800 psi
ESCR	ASTM- D1693 B	1000
Melt Index	ASTM-D1238	3.5 g/10 min.
Density	ASTM-D1895	.56 g/cm <sup>3</sup>
Specific Gravity	ASTM-D792	.941
Flame Rate	HB	UL-94 @.060 & .120 thickness
Impact Strength	ARM	68 ft.-lb.
Deflection Temp. 66 psi	ASTM-D638	147 °F
Deflection Temp. 264 psi	ASTM-D638	104 °F

Disclaimer: This technical data information and recommendations offered are based on test results, and findings we believe to be reliable and complete.



A non-hardening butyl mastic should be applied on the top of the cone/slab to secure the alignment barrier in place.



Ess Brothers & Sons, Inc.

9350 County Road 19. ♦ Loretto, MN 55357 ♦ 763-478-2027 ♦ 800-478-2027 ♦ Fax 763-478-8868 ♦ [www.essbrothers.com](http://www.essbrothers.com)