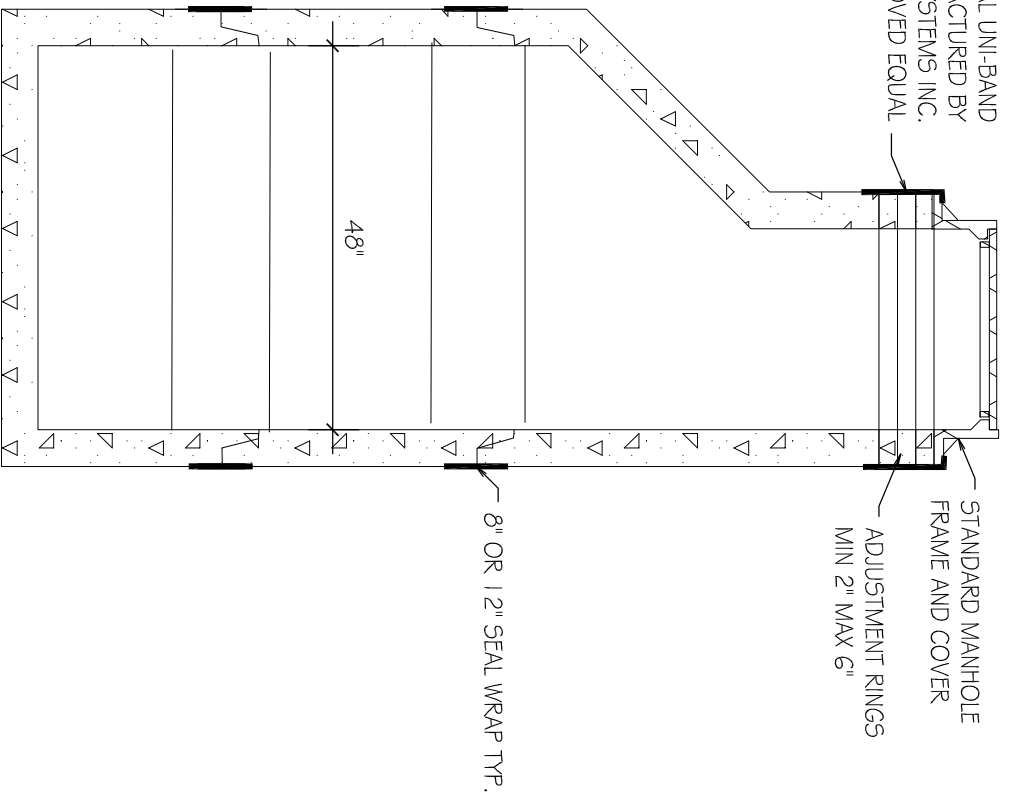


EXTERNAL UNI-BAND
MANUFACTURED BY
SEALING SYSTEMS, INC.
OR APPROVED EQUAL



Infi-Shield® 8" or 12" Seal-Wrap Specification

Patent # 5,531,485

Each pipe joint or manhole joint shall be sealed with an external rubber sleeve similar to the Infi-Shield Seal Wrap as manufactured by Sealing Systems Inc (763-478-2057). The seal shall be made of EPDM (Ethylene Propylene Diene Monomer) rubber with a minimum thickness of 65 mils. Each unit shall have a 2" wide mastic strip on the top and bottom edge of the rubber wrap. The mastic shall be non-hardening butyl rubber sealant, with a minimum thickness of 125 mils. The seal shall be designed to prevent leakage of water through the joint sections of a manhole, catch basin or concrete pipe.

8" or 12" Seal Wrap

Height	8 or 12 inches
Length	32 feet
Thickness	65 mils
Height tolerances	8 inches +/- .188"
Length tolerances	32 feet +/- .000
Rubber Thickness tolerances	65 mils +/- .7 mils
Mastic Thickness	125 mils
Mastic Width	2"
Mastic off set from edge	1/4"

EPDM Rubber/70-6618-1/Color Black

Physical Properties	ASTM Test Method	Typical Value
Durometer, Shore A	D2240	61
Tensile, PSI	D412	1510 PSI
Elongation %	D412	460 %
Compression set %	D395 22 Hrs @ 77 degrees C	26 %
Tear Resistance PPI	D624 Die B	165 ppi
Heat Aging	D573 70 Hrs. @ 70 degrees C	
Change in hardness (Durometer)		65 (+4 pis)
Change in Tensile %		1390 psi (-14 %)
Change in Elongation %		345 % (-25 %)
Ozone Resistance	D1149 72 Hrs @ 50 ppm	no cracks
Water Resistance (Volume)	D471 70 Hrs @ 100 degrees C	+ 1.8 %
Low Temperature Brittleness	D2137 -40 degrees C	Pass

Specifications: ASTM D200 MABA610, A13, B13, C12, EA14, F17

GENERAL NOTES:
THE ADJUSTMENT RINGS AND CASTING SHALL BE SEALED WITH THE INFI-SHIELD UNI-BAND AND THE MANHOLE BARREL JOINTS SHALL BE SEALED WITH INFI-SHIELD EXTERNAL RUBBER SEAL WRAP AS MANUFACTURED BY SEALING SYSTEMS INC. OR APPROVED EQUAL

Sealing Systems, Inc.
9350 County Road 19
Loretto, MN 55357
763-478-2057



8" OR 12" SEAL WRAP MANHOLE DETAIL

DATE: 4-24-06

SHEET: 1 OF 1

DRAWN BY: BAV