

POLYFLEX® WEATHERSTRIPPING

PERFORMANCE DATA

Test Data: Tests in the SEALMAX™ laboratory and independent test facilities prove the superior performance of Polyflex® weatherseal in sealing of door and window units.

COMPARISON TESTS

1. Air Infiltration and Water Leakage Tests conducted on stock windows and doors equipped with manufacturer’s standard weatherstripping. Test specification per NWMA standard No. I.S. 2-73.

Air Infiltration: Per ASTM E-283.
Criteria: Maximum allowable leakage 0.5 cfm/ft (2.8 M3 /h/m) of crack length under pressure equal to a 25 mph/40.2 km/h wind.

Water Leakage: ASTM E-331.

Criteria: No water to pass through unit and overflow sill for 15 minutes under a pressure equal to a 34 mph/54.7 km/h wind, and a flow rate of 5 gal/h/ft² (204 l/h/ m²) of surface area.

Window Number	A	B
Manufacturer’s standard weatherstrip	Aluminum	Rigid Vinyl
Air Infiltration with standard weatherstrip – CFM per foot of crack length (m3/h/m)	0.99 (5.51)	0.98 (5.46)
Air infiltration with Polyflex® weather seals – CFM per foot of crack length (m3/h/m)	0.13 (0.72)	0.45 (2.51)
Water performance with standard weatherstrip	Fail	Fail
Water performance with Polyflex® weather seals	Pass	Pass

2. Air Leakage Tests: Polyflex® weather seals provided zero air infiltration when uniform contact was made across a 36” strip. Test was made for fully open

(uncompressed - no contact made) then in .010”/.25mm mark intervals. Uniform contact was made at .020”/.50mm compression on test pieces.

Test Sample Number	1	2	3	4
Uncompressed Height of Polyflex® weather seals	.220” / 5.5mm	.220” / 5.5mm	.220” / 5.0mm	.220” / 5.0mm
Air infiltration CFM/Ft (m3/h/m) – Compression of:				
Open	.91 (5.07)	.87 (4.85)	.655 (3.65)	.90 (5.01)
.010”/2.54mm	.45 (2.51)	.43 (2.40)	.43 (2.40)	.45 (2.51)
.020”/.50mm	0	0	0	0
.030”/.76mm	0	0	0	0
.040”/1.2mm	0	0	0	0
.050”/1.27mm	0	0	0	0

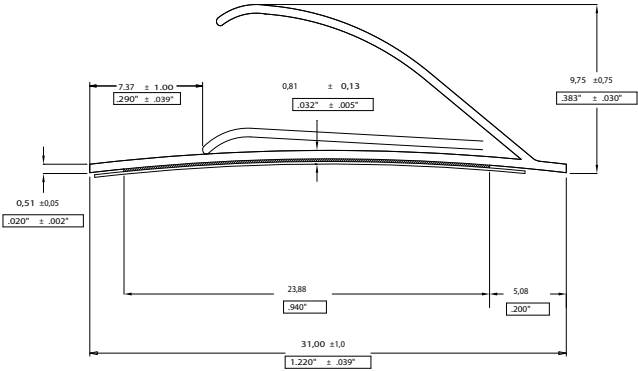
3. Seal Recovery Tests: A special open-close cycle machine measured the recovery of the Polyflex® weather seals following simulated vertical and horizontal

compressing action. Recovery readings shown were taken immediately after cycling stopped.

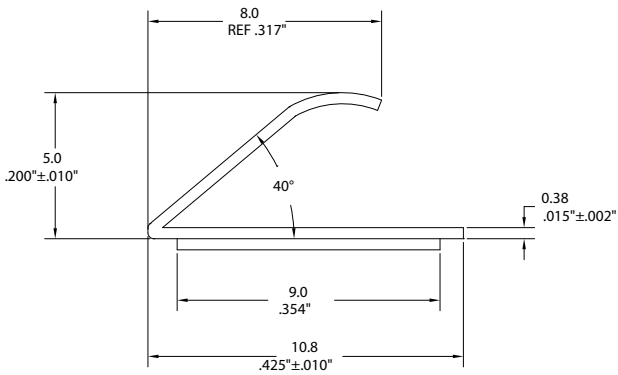
Wipe Seal (such as meeting rail)		
Temperature	Cycles	% Recovery
Normal 70°F /21.1°C	20,000	80.9
Cold -25°F/-31.6°C	5,000	90.0
Warm 140°F/60°C	5,000	80.0
Compression Seal (such as bottom rail)		
Normal 70°F/21.1°C	20,000	89.0
Cold -25°F/-31.6°C	5,000	82.5
Warm 140°F/60°C	5,000	81.0

Note: Polyflex® weather seals are not compatible with wood preservatives. Before inserting Polyflex® weather seal, treated wood must be completely dry.

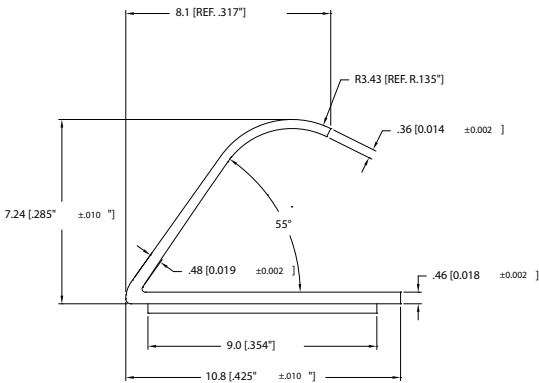
ADHESIVE BACKED PROFILES



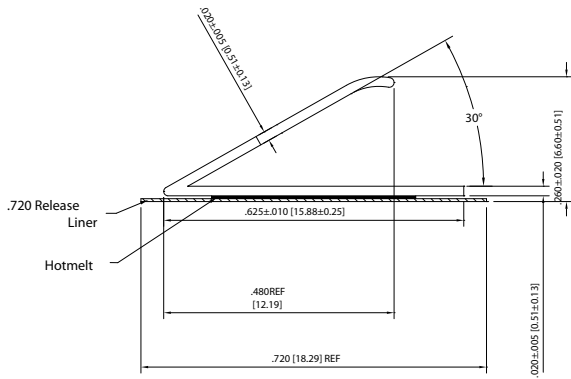
PF 512 AB



PF 524 AB

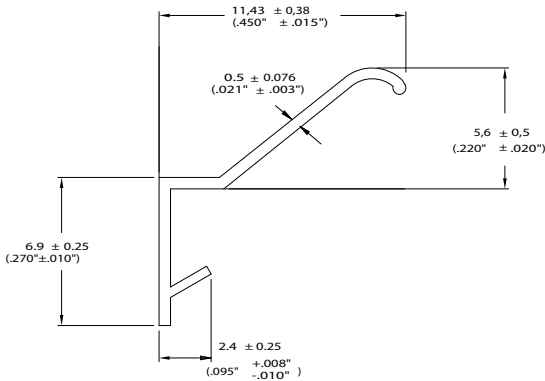


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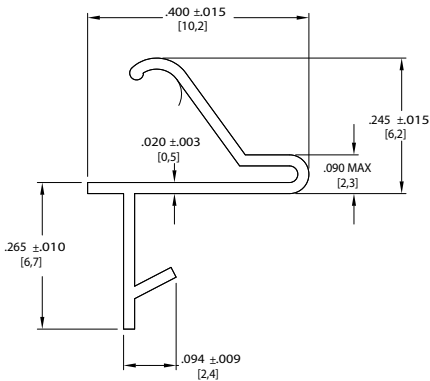


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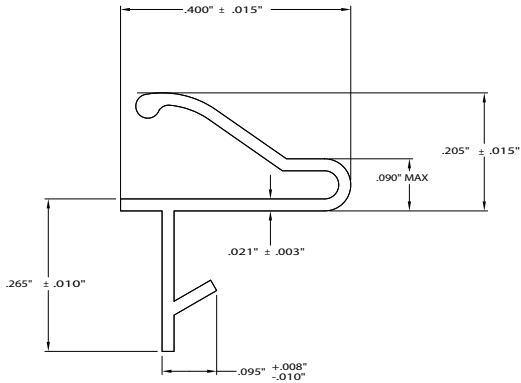
NON ADHESIVE BACKED PROFILES



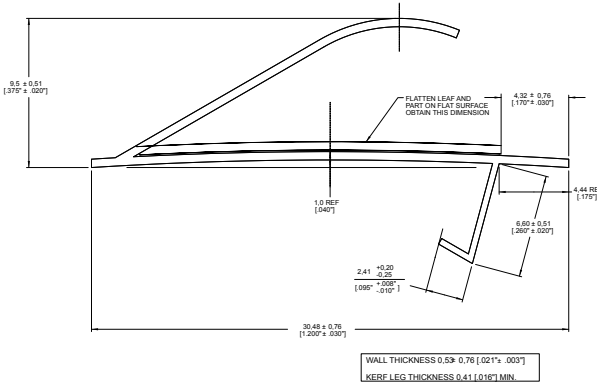
PF 101



PF 141

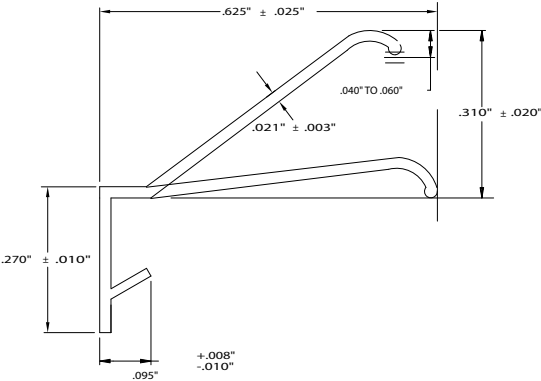


PF 109

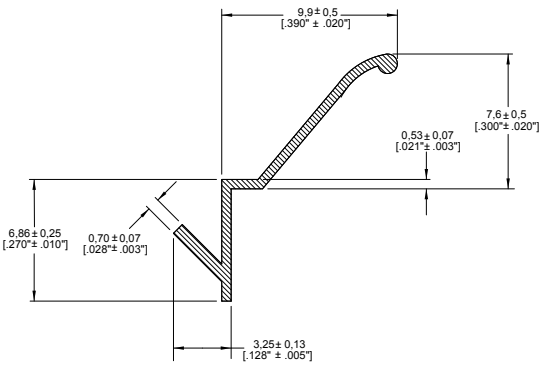


PF 514K

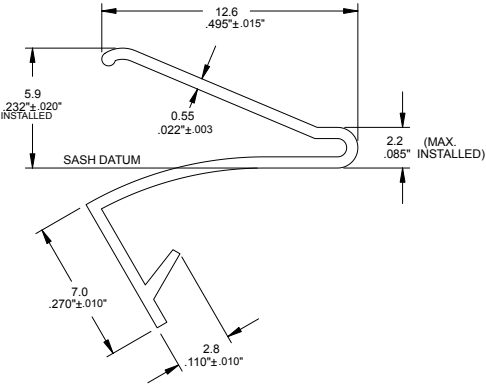
NON ADHESIVE BACKED PROFILES



PF 111



PF 527



PF 115

SEALMAX

The Sealmax brand started in 2000; however, we have been manufacturing weatherseal and weatherstripping since 1931. Originally doing business as Schlegel Canada Inc., Sealmax has undergone many changes since then, but one thing remains the same — quality products for windows and doors.

ADDRESS

514 South Service Road East
Oakville, ON L6J 2X6
Telephone 1-866-458-3707
Fax 1-905-845-6558

EMAIL

General Information: info@sealmax.com
Sales: sales@sealmax.com

sealmax.com