



Tyrol Series

Air, Water and Structural Performance

Alpen's Tyrol products are tested to national AAMA standards (AAMA/WDMA/CSA 101/I.S.2/A440) using independent labs to validate performance against wind pressure, water leaks, and air drafts.

TYROL PICTURE WINDOW	Performance Grade (Test size)	
Performance Grade (PG) AAMA/WDMA/CSA 101/I.S.2/A440	CW-PG 45	(72" x 96")
Design Pressure psf (Pa)	45.10 psf (2160 Pa)	
Structural Test Pressure psf (Pa)	67.65 psf (3240 Pa)	
Air Infiltration @ 1.57 psf (@75 Pa)	<0.01 cfm/ft ² (<0.1 L/s/m ²)	
Water Penetration Resistance Test Pressure	6.89 psf (330 Pa)	
Optional Water Penetration Resistance Test Pressure	10.65 psf (510 Pa)	
Forced Entry Resistance (ASTM F-588-07)	Grade 10 Pass	

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TYROL TILT-TURN	Performance Grade (Test size)		Performance Grade (Test size)	
Performance Grade (PG) AAMA/WDMA/CSA 101/I.S.2/A440	CW-PG 50	(47" x 71")	CW-PG 65	(44" x 86")
Design Pressure psf (Pa)	50.13 psf (2400 Pa)		65.16 psf (3120 Pa)	
Structural Test Pressure psf (Pa)	75.20 psf (3600 Pa)		97.74 psf (4680 Pa)	
Air Infiltration @1.57 psf (@75 Pa)	<0.01 cfm/ft ² (<0.1 L/s/m ²)		<0.01 cfm/ft ² (0.1 L/s/m ²)	
Water Penetration Resistance Test Pressure	7.52 psf (360 Pa)		9.82 psf (360 Pa)	
Optional Water Penetration Resistance Test Pressure	15.04 psf (360 Pa)		15.04 psf (360 Pa)	
Forced Entry Resistance (ASTM F-588-07)	Grade 10 Pass		Grade 10 Pass	

TYROL INSWING DOOR – LOW PROFILE SILL

Performance Grade (Test size)

Performance Grade (PG) AAMA/WDMA/CSA 101/I.S.2/A440	CW-PG 30 (42" x 96")
Design Pressure psf (Pa)	30.08 psf (1440 Pa)
Structural Test Pressure psf (Pa)	45.12 psf
Air Infiltration @1.57 psf (@75 Pa)	0.06 cfm/ft ² (0.3 L/s/m ²)
Water Penetration Resistance Test Pressure	4.52 psf (220 Pa)
Forced Entry Resistance (ASTM F-588-07)	Grade 10 Pass

TYROL OUTSWING DOOR – STANDARD SILL

Performance Grade (Test size)

Performance Grade (PG) AAMA/WDMA/CSA 101/I.S.2/A440	CW-PG 30 (42" x 96")
Design Pressure psf (Pa)	60.15 psf (2880 Pa)
Structural Test Pressure psf (Pa)	90.23 psf (4320 Pa)
Air Infiltration @1.57 psf (@75 Pa)	<0.01 cfm/ft ² (<0.1 L/s/m ²)
Water Penetration Resistance Test Pressure	9.02 psf (432 Pa)
Optional Water Penetration Resistance Test Pressure	10.54 psf (505 Pa)
Forced Entry Resistance (ASTM F-588-07)	Grade 10 Pass