

The following is a selection of NAFS tests conducted on the Defender 88PH+ Pro and 88TS Door Systems. Additional tests have been conducted; contact your Product Representative to review additional NAFS test results. If required, new tests for different configurations, sizes or performance criteria can also be conducted when required for specific projects. This selection was made to demonstrate product performance and large size products.

### Innotech Defender NAFS Performance Summary – 88PH+ Pro Terrace Door Systems

This summary is based on AAMA/WDMA/CSA 101/I.S.2/A440-17, -22 and CSA A440S1 -17, -19 test reports for the Defender product lines. Information is offered in good faith as an accurate summary of data in the referenced test reports.

Innotech Product Type	NAFS Version	Configuration	Size Tested width x height mm & (inches)	Performance Class & Grade	Positive & Negative DP Pa & (psf)	WPR Test Pressure Pa & (psf)	Canadian Air I/E Level & Result	Third Party Test Facility Report #
TDI 88PH+ Pro ADA Sill	17	D	1200 x 2430 mm (47 x 96 in.)	AW-PG75	3600 Pa (75 psf)	720 Pa (15 psf)	Pass 0.00 L/sm <sup>2</sup> (0.00 cfm/ft <sup>2</sup> )	Intertek 106102808CO Q-005
TDI 88PH+ Pro Transom High Perf. Sill	17	TD	1310 x 3205 mm (51.6 x 126.2 in.)	CW-PG55	2640 Pa (55 psf)	720 Pa (15 psf)	A3 0.02 L/sm <sup>2</sup> (0.00 cfm/ft <sup>2</sup> )	Intertek 104694921CO Q-001REV1
TDO 88PH+ Pro High Perf. Sill	17	D	1310 x 2600 mm (51.6 x 102.4 in.)	CW-PG55	2640 Pa (55 psf)	720 Pa (15 psf)	A3 0.02 L/sm <sup>2</sup> (0.00 cfm/ft <sup>2</sup> )	Intertek 104694921CO Q-004
DAD 88PH+ Pro High Perf. Sill	17	TD	1310 x 3202 mm (51.6 x 126 in.)	CW-PG60	2880 Pa (60 psf)	720 Pa (15 psf)	A3 0.00 L/sm <sup>2</sup> (0.00 cfm/ft <sup>2</sup> )	Intertek 105123117CO Q-001
DAD 88PH+ Pro High Perf. Sill (Hurr. Ext.)	17	OD	2296 x 2515 mm (90 x 99 in.)	CW-PG60	2880 Pa (60 psf)	720 Pa (15 psf)	A3 0.01 L/sm <sup>2</sup> (0.00 cfm/ft <sup>2</sup> )	Intertek 105123117CO Q-004A
TDI 88PH+ Pro High Perf. Sill	17	TDD	2515 x 3205 mm (99 x 126 in.)	LC-PG45	2160 Pa (45 psf)	720 Pa (15 psf)	A3 0.05 L/sm <sup>2</sup> (0.01 cfm/ft <sup>2</sup> )	Intertek 104694921CO Q-007
TDO 88PH+ Pro High Perf. Sill	17	DD	2515 x 2600 mm (99 x 102.4 in.)	LC-PG45	2160 Pa (45 psf)	720 Pa (15 psf)	A3 0.04 L/sm <sup>2</sup> (0.01 cfm/ft <sup>2</sup> )	Intertek 104694921CO Q-009

### Innotech Defender NAFS Performance Summary – 88TS Entry Door Systems

This summary is based on AAMA/WDMA/CSA 101/I.S.2/A440-17, -22 and CSA A440S1 -17, -19 test reports for the Defender product lines. Information is offered in good faith as an accurate summary of data in the referenced test reports.

Innotech Product Type	NAFS Version	Configuration	Size Tested width x height mm & (inches)	Performance Class & Grade	Positive & Negative DP Pa & (psf)	WPR Test Pressure Pa & (psf)	Canadian Air I/E Level & Result	Third Party Test Facility Report #
EDI 88TS High Perf. Sill	17	D	1200 x 2440 mm (47.2 x 96 in.)	CW-PG85	4080 Pa (85 psf)	720 Pa (15 psf)	A3 0.00 L/sm <sup>2</sup> (0.01 cfm/ft <sup>2</sup> )	Intertek 104606364CO Q-001H
EDI 88TS EA Sill	17	TD	1310 x 3500 mm (52 x 126 in.)	CW-PG45	2880 Pa (60 psf)	330 Pa (6.9 psf)	A3 0.46 L/sm <sup>2</sup> (0.09 cfm/ft <sup>2</sup> )	Intertek 104817676CO Q-001
EDI 88TS EA Sill	22	OD	3440 x 2500 mm (135 x 98 in.)	CW-PG45	2160 Pa (45 psf)	580 Pa (12 psf)	Pass 0.00 L/sm <sup>2</sup> (0.01 cfm/ft <sup>2</sup> )	Intertek 105683494CO Q-004
EDO 88TS EA Sill	22	D	1305 x 2510 mm (51.3 x 99 in.)	CW-PG75	3600 Pa (75 psf)	580 Pa (12 psf)	Pass 0.1 L/sm <sup>2</sup> (0.02 cfm/ft <sup>2</sup> )	Intertek 105683494CO Q-001

#### Legend

##### Innotech Product Type

FWI	Fixed Window Inswing (Interior Glazed)
FWO	Fixed Window Outswing (Exterior Glazed)
DAW	Dual Action (Tilt & Turn) Window
DAD	Dual Action (Tilt & Turn) Door
TDI	Terrace Door Inswing
TDO	Terrace Door Outswing
EDI	Entry Door Inswing
EDO	Entry Door Outswing
TGD	Tilt & Glide Door
LSD	Lift + Slide Door

##### Configuration Abbreviations

O	Refers to fixed Glazing Lite
X	Refers to Operable Vent Glazing Lite
D	Refers to Single Swing Door
DD	Refers to Double French Swing Door
TD	Refers to Single Swing Door with Transom
/	Over & Under Mullion or Coupler Divider
I	Side-by-Side Mullion or Coupler Divider

##### Test Ratings

DP	Design Pressure
Pa	Pressure in Pascals
psf	Pressure in Pounds per Square Foot
WPR	Water Penetration Resistance
I/E	Infiltration/Exfiltration