



WINDOWS

Tilt & Turn

90 Series thermal-break aluminum · inward opening, tilt and turn · black stainless mesh screen



THE SYSTEM

A thermally broken aluminum tilt-and-turn window on the 90 Series platform. One handle tilts the sash inward at the head for ventilation, or turns it inward on side hinges to open fully. The black stainless mesh screen opens inward as well.

CONSTRUCTION

Frame depth	3 1/2" (90 mm)
Opening	Inward — tilt and turn
Profile wall	2.0 mm, 6063-T5
Thermal break	Polyamide
Finish	AkzoNobel Interpon powder coat, AAMA 2604 ; 2605 and dual-color to order
Hardware	CMECH tilt-and-turn
Screen	Black stainless steel mesh; opens inward, like the sash. Not retractable

PERFORMANCE

0.39 U-FACTOR	0.24 SHGC	0.51 VT
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Manufacturer's whole-window values, not NFRC listed. Meets IECC Climate Zone 2 ($U \leq 0.40$, $SHGC \leq 0.25$): San Antonio, Austin, Houston, Phoenix, Tucson.

SIZES

	INCHES	MILLIMETERS
Max width	33 3/8"	850
Max height	70 3/4"	1800
Min width	21 3/4"	550
Min height	27 5/8"	700
Max sash weight	154 lb	70 kg
Max glass	16.4 sq ft	1.53 m ²

Sizes are sash dimensions and reference sizes. Larger sizes on request, confirmed case by case.

OPERATION



TURN — INWARD



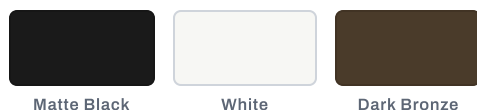
TILT — INWARD

GLAZING

Standard	5 mm Low-E double silver + 20 mm argon + 5 mm
Glass	Tempered, every lite; thickness steps up with lite size

At up to 1.53 m² of glass per sash, the Horizon tilt-and-turn glazes in the 5 mm band. The 6 and 8 mm bands apply to large fixed and sliding units.

FINISH



AkzoNobel Interpon powder coat, AAMA 2604, inside and out. Custom colors, AAMA 2605 and dual-color frames (a different color inside and outside) at an additional charge.

HOW A HORIZON UNIT IS ORDERED

01

Send the schedule

The window and door schedule or a takeoff with opening sizes, the elevations so mulled runs price as assemblies, and the finish inside and out.

02

Approve the drawings

Shop drawings are issued for every opening and signed before any aluminum is cut.

03

Production and delivery

30 to 40 days production, then about 30 days ocean transit to the warehouse.



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Profile sections

Drawn from the production die on the 90 Series platform. All dimensions in millimeters.

PLAN SECTION



Outdoor

indoor

HEAD & SILL — VERTICAL



indoor

Outdoor

READING THE SECTION

90 Frame depth

Remaining figures on the sections are internal profile and gasket dimensions, issued with the approved shop drawings.

GLASS THICKNESS BY PANE AREA

EACH LITE	PANE, SQ FT	PANE, M ²
5 mm	up to 26.8	0.09–2.49
6 mm	26.9–43.0	2.50–3.99
8 mm	43.1–64.5	4.00–5.99

INSTALLATION

Nail fin	Integral, 4 sides; setback per order
Drainage	Weep slots at the sill
Operation	Sash and screen both open inward

HORIZON — LIMITED WARRANTY

Frame, sash, welds	10 years
Insulating glass seal	10 years
Finish — AAMA 2604	10 years
Hardware and screens	3 years

ALSO IN HORIZON

Fixed	110 Series
Casement & awning	WJ110 Series
Sliding window	4075 Series
Sliding door	4075 Series
Multi-slide	TY120 Series

Sections are supplied for detailing only and are not shop drawings. Approved shop drawings are issued for every order before manufacturing.

Thermal values for this non-certified collection are manufacturer's calculated whole-window figures and carry no NFRC listing. NFRC-certified product is specified in the Summit collection.