WINDOWS

Casement

Thermally broken aluminum · outswing, push-out operation · single or pair

THE SYSTEM

A thermally broken aluminum casement on the Ascent profile. The sash is side hinged, pushes out and opens to 90°, with Roto locking hardware and a Coastal 316 stainless handle. Single sash or a pair with a center lock.

CONSTRUCTION

Frame depth	2 5/8″ (66 mm) frame; 3″ (76 mm) sash
Visible frame	4 5/16″ (109.5 mm), frame + sash per side
Thermal break	Polyamide, 15/16″ (24 mm)
Profile wall	2.0 mm
Opening	Outswing, side hinged; opens to 90°
Finish	**AkzoNobel Interpon** powder coat, **AAMA 2604**; 2605 and dual-color to order
Hardware	**Roto** locking; **Coastal** 316 stainless handle. Sashes over 23 5/8″ (600 mm) wide use door-type hinges
Screen	Retractable screen available

PERFORMANCE

0.39	0.20	0.23
U-FACTOR	SHGC	VT

Calculated whole-window values with T40 Low-E glass; not NFRC listed. Meets IECC Climate Zone 2 (U ≤ 0.40, SHGC ≤ 0.25): San Antonio, Austin, Houston, Phoenix, Tucson. NFRC-certified product is specified in the Summit collection.

SIZES

	INCHES	MILLIMETERS
Max width	42″	1067
Max height	95 7/8″	2438
Min width	19″	483
Min height	22″	559
Max sash weight	*To be confirmed*	

Reference sizes, width × height, measured to the outside of the frame, excluding the nail fin. Every Ascent unit is built to the opening on the drawings.

GLAZING

Standard	6 mm T40 Low-E + 12 mm argon + 6 mm
Unit	15/16″ (24 mm) insulating glass
Glass	Tempered, every lite

EGRESS — SMALLEST CASEMENTS

29″ × 45″ (737 × 1143 mm)
30″ × 44″ (762 × 1118 mm)
36″ × 35″ (914 × 889 mm)

Overall frame sizes. Sash opens to 90°. Clear width = W – 192 mm (7 9/16″); clear height = H – 116 mm (4 9/16″). Sizes carry a margin over IRC R310: 6.0 sq ft clear, 21″ clear width, 25″ clear height.

CONFIGURATIONS

SINGLE · PAIR · CASEMENT + FIXED

FINISH

Matte Black · White · Dark Bronze

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 AN ASCENT 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
45 days production from deposit and signed drawings, then about 30 days ocean transit to the warehouse.

WINDOWS · CASEMENT

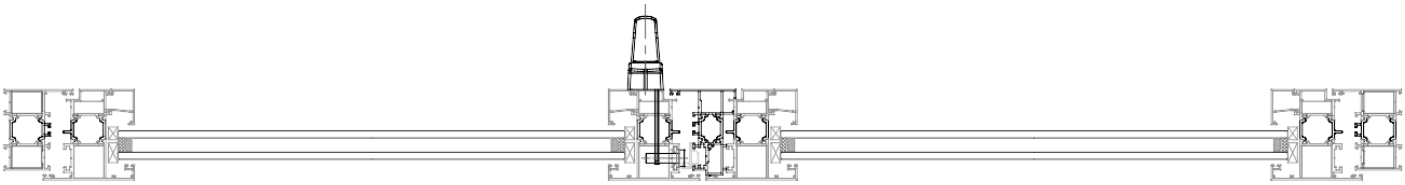
Profile sections

Drawn from the current Ascent production profile drawings. Profile dimensions are in the table alongside.

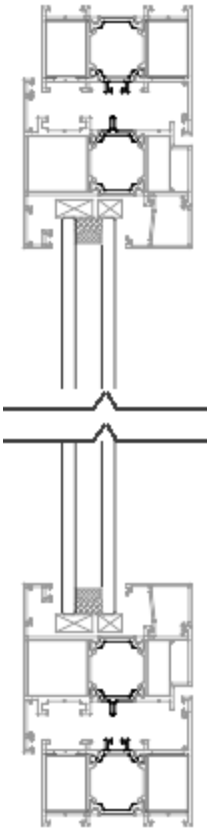
PLAN SECTION

PLAN SECTION — SINGLE SASH

PLAN SECTION — PAIR, CENTER LOCK



HEAD & SILL — VERTICAL



READING THE SECTION

Operation	Outswing sash, side hinged, opens to 90°
Thermal break	Polyamide, 15/16″ (24 mm)
Frame depth	2 5/8″ (66 mm) frame; 3″ (76 mm) sash
Visible frame	4 5/16″ (109.5 mm), frame + sash per side

Profile, gasket and glazing dimensions are issued with the approved shop drawings.

GLAZING MAKE-UP

Outer lite	1/4″ (6 mm) T40 Low-E
Cavity	1/2″ (12 mm) argon
Inner lite	1/4″ (6 mm)
Unit	15/16″ (24 mm) insulating glass
All lites	Tempered

INSTALLATION

Nail fin	Integral, 4 sides, standard; setback selectable per order to suit the cladding
Drainage	Drainage slots with covers

ASCENT — LIMITED WARRANTY

Frame, sash, welds	10 years
Insulating glass seal	10 years
Finish	12 years
Hardware and screens	5 years

ALSO IN ASCENT

Fixed window	Picture and mulled units
Awning	Top hinged, push-out
Sliding window	2-track or 3-track
Swing door	Inswing or outswing, single or pair
Window wall	Data sheet to follow
Sliding door	Data sheet to follow

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 the manufacturer's calculated whole-window figures and carry no NFRC listing. NFRC-certified product is specified in the Summit collection.