ACRO
ALUMINUM INC.

8000 SERIES THERMAL VENT WINDOW - TOP HUNG PROJECT OUT

Series 8000 VENT MANUAL

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FEATURES:

- Polyurethane pour and debridge thermal break
- Overlap vent construction
- Rigid corner key joinery
- Subframe - Equal leg for storefront or unequal leg for curtainwall
- 1" glazing infill
- Extruded screen frames
- Variety of locking, operating, and hinging hardware
- Structural, air, and water tested
- Shop or field glazed

AVAILABLE FINISHES:

- Clear anodized finish (Class1)
- Black/bronze anodized finish (Class1)
- Custom color powder or wet paint

SIZE MAXIMUM AND MINIMUMS:

- Maximum size: 60" x 48"
- Minimum size: 17" x 17"

TEST SUMMARY - AIR, WATER, STRUCTURAL

Testing was performed following the methods and requirements outlined in the following standards:

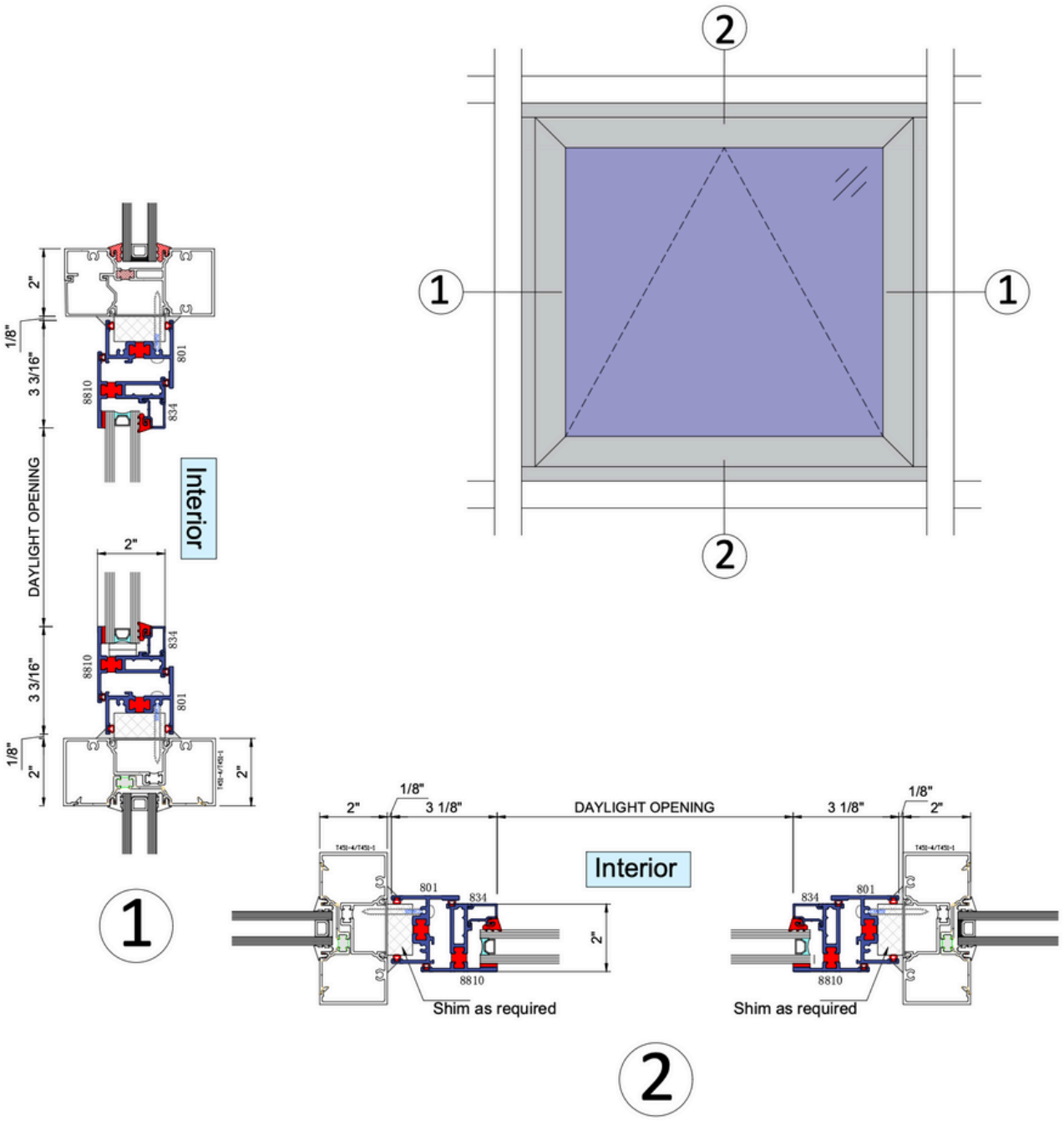
- ASTM E283-19 - *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen,* 2019.
- ASTM E331-00(2016) - *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference,* 2000.
- ASTM E330/E330-14 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Air Pressure Difference (ASTM E330).

- Maximum air leakage recorded at ±75 Pa (~±1.57 psf) = 0.133 L/s/m^2 (0.026 cfm/ft^2).
- Maximum pressure differential achieved without water penetration 720 Pa (~15.04 psf).
- Maximum pressure differential achieved during structural performance testing without breakage 3360 Pa (~70.18 psf).

TABLE 1 - THERMAL MODELING RESULTS

Product Name	Glazing Detail	Center of Glass U-Factor (Glazing only) (W/m2K)	Overall Glass U-Factor (W/m2K)	Overall Glass U-Factor (Btu/hft2F)	SHGC	VT
Acro 8000 Single Awning	6 mm Cardinal 272 Low-E Surface #2 1/2" Butyl Rubber x Quanex T-spacer Argon 90% / Air 10% 6 mm Clear	1.406	2.491	0.439	0.275	0.450
Acro 8000 Single Awning	6 mm Cardinal 270 Low-E Surface #2 1/2" Butyl Rubber x Quanex T-spacer Argon 90% / Air 10% 6 mm Clear	1.390	2.477	0.436	0.248	0.435
Acro 8000 Single Awning	6 mm Cardinal 272 Low-E Surface #2 1/2" Butyl Rubber x Quanex T-spacer Argon 90% / Air 10% 6 mm i89 Surface #4	1.136	2.320	0.409	0.270	0.440

ACRO ALUMINUM WINDOWS
8000 VENT 2" SERIES



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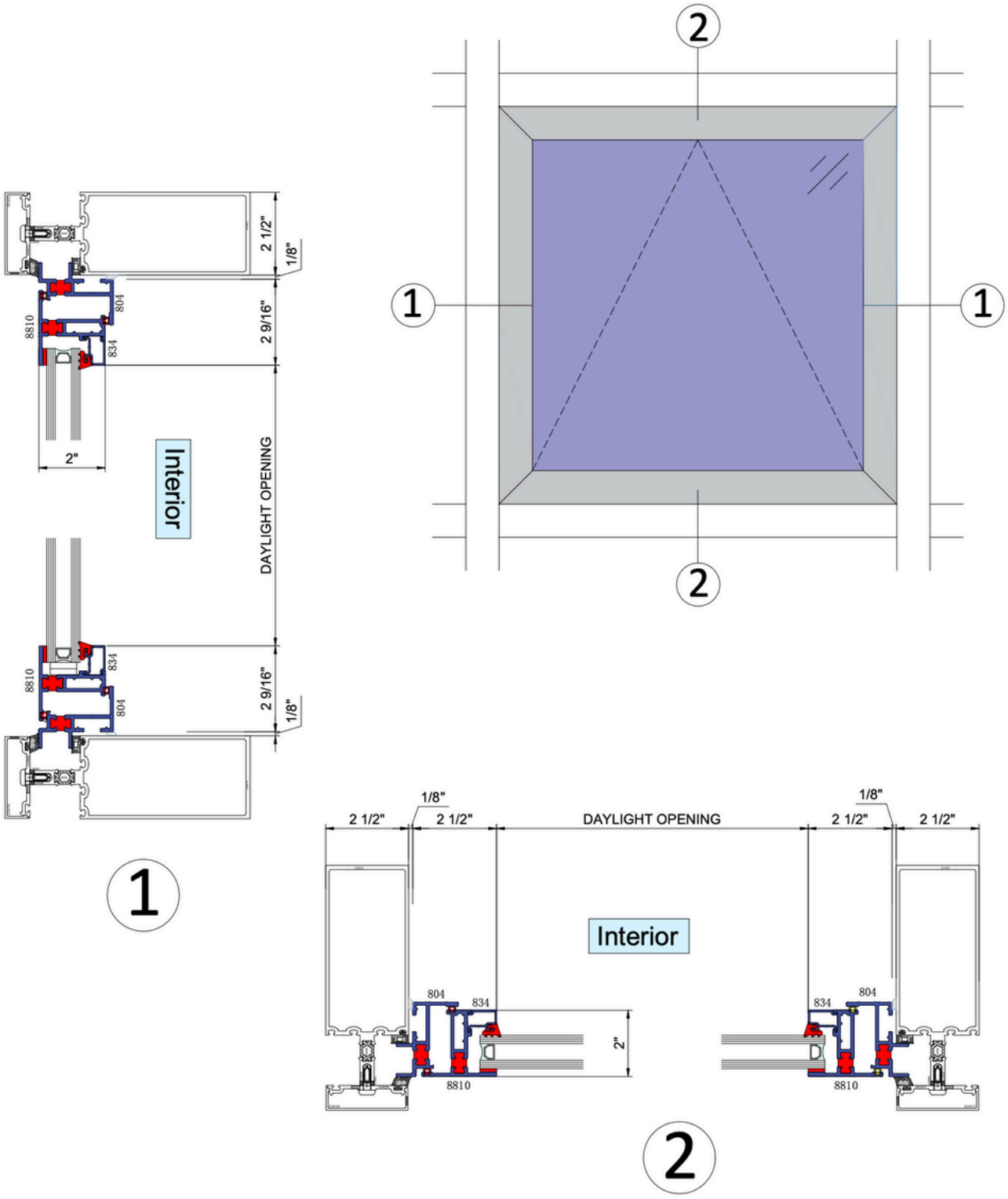

HARDWARE OPTIONS

STANDARD HARDWARE:

- 4 Bar Stainless Steel Hinges with limit stop
- Cam Handle Locks

OPTIONAL HARDWARE:

- Roto Style Crank Operator
- WOCD Device
- Pole and Pole Ring
- Insect screens with wickets to access cam handles

Open in and Casement configurations are available as well.