



S.E.A.L.™ INTERIOR ACCESSORY WINDOWS



WAUSAU

WINDOW AND WALL
SYSTEMS

When existing windows are weather-tight, and ventilation unnecessary, **Wausau Window and Wall Systems®** S.E.A.L.™ interior accessory windows can improve Sound, Energy, Air and Light control - economically, and with a minimum of occupant disruption.

Features and Benefits

- Minimal frame depth to fit within existing window frame openings
- Also used as a curtainwall and storefront add-on for integral blinds or enhanced performance
- Side-hinged access doors with custodial locks
- 5/8" or 1" between-glass Venetian blinds available, with slip-clutch tilt control knob and concealed raise-lower controls
- Mitered frame construction, corner-blocked tubular vents
- Dual glazed 2500 Series I.C.U. observation windows
- Drop tested 2187-DT Series accepts psychiatric glazing, ideal for adaptive re-use
- Offered through Advantage by Wausau
- Wausau extruded aluminum frames contain recycled content averaging 70% or greater
- Covered by Wausau's Standard Limited Warranty of up-to 10 years

2187-DT S.E.A.L. Psychiatric



2500 S.E.A.L. I.C.U. Observation

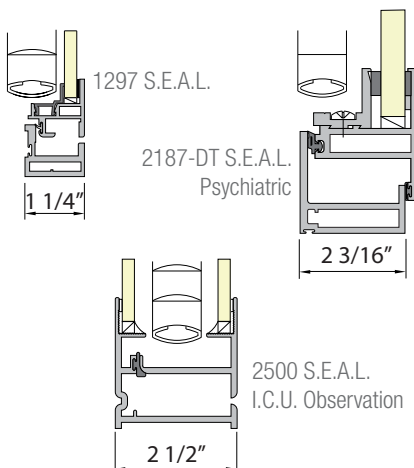
1297 S.E.A.L.

Estimated Performance

U-FACTORS - 1297 SERIES S.E.A.L INTERIOR ACCESSORY WINDOWS				
Exterior Glass Type	Nominal Air Space (in.)	Estimated Center-of-Glass U-Factor (Thermal Transmittance - BTU/hr.sq.ft.°F)		
		Interior Glass Type		
		1/4" Uncoated (annealed or heat-treated)	1/4" Pyrolytic Low-E (facing air space)	7/16" Laminated
1/4" Uncoated (annealed or heat-Treated)	2 1/2"	0.49	0.37	0.47
	5"	0.49	0.37	0.47
1" Insulating Glass	2 1/2"	0.31	0.25	0.30
	5"	0.31	0.25	0.30

All estimates calculated using WINDOWS 6.0 software.
Results will change with exterior glass and frame type, as well as air space and wall cavity conditions.
Test results may vary. Refer to standard Wausau disclaimers and qualifications.

Details



ACOUSTIC PERFORMANCE - 1297 SERIES S.E.A.L INTERIOR ACCESSORY WINDOWS					
Exterior Glass Type	Nominal Air Space (in.)	Estimated Acoustic Performance Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC)			
		Interior Glass Type			
		1/4" Uncoated or Low-E (annealed or heat-treated)		7/16" Laminated	
		STC	OITC	STC	OITC
1/4" Uncoated (annealed or heat-Treated)	2 1/2"	40	31	44	33
	5"	42	33	46	35
1" Insulating Glass	2 1/2"	45	36	48	37
	5"	48	37	50	39

All estimates inferred from Wausau test data on similar glazing make-ups.
Results will change with exterior glass and frame type, as well as air space and wall cavity conditions.
Test results may vary. Refer to standard Wausau disclaimers and qualifications.

Estimated performance values are NOT test results. As noted, actual performance will vary. Validation may require project-specific testing, adding cost and impacting schedule.

Specifications

S.E.A.L. 1297 SERIES

[NOTE: WAUSAU recommends that a representative sample of SEAL Series interior accessory windows be provided in situ, at least one seasonal cycle prior to installation. This will allow building occupants, facility staff, and the design team an opportunity to gauge the effectiveness of interior accessory windows, and verify the suitability of operation, maintenance, existing glass type(s), and surrounding conditions. Internal fogging and thermal stress in existing annealed glass are of particular concern. Refer Wausau's standard disclaimers for limitations and qualifications.]

AIR INFILTRATION and EXFILTRATION: With all purposeful vent holes plugged, neither air infiltration or exfiltration shall not exceed 0.3 cfm per square foot at 6.24 psf pressure differential when tested in accord with ASTM E283.

MATERIALS: Aluminum framing members shall be extruded aluminum billet, 6063-T5 or T6 alloy meeting the requirements of ASTM B221. Principal window frame and access panel members will be a minimum 0.093" in thickness at glazing legs, hardware mounting webs and section flanges. Extruded or formed trim components will be a minimum 0.060" in thickness. Frame depth 1-1/4 " minimum.

COMPONENTS: All steel hardware components including attachment fasteners to be 300 Series stainless steel. Extruded aluminum components 6063-T5 or -T6. Locking handles, bases and strikes to be die cast, white bronze or stainless steel. Thermo-plastic or thermo-set plastic caps, housings and other components to be injection-molded nylon, extruded PVC, or other suitable compound. Hardware to be custodial-operated and include concealed hinge pins and blocks, concealed locks, retainer clips, and lift blocks. All sealants shall comply with applicable provisions of AAMA 800 and/or Federal Specifications FS-TT-001 and 002. Frame joinery sealants shall be suitable for application specified and as tested and approved by window manufacturer. Provide glass and glazing in accordance with Section 08 80 00.

INTEGRAL VENETIAN BLINDS: Integral Venetian blinds shall employ 5/8" or 1" (Select one) wide aluminum slat blinds. Blind color shall be selected from standard color chart. Blind to be integrally mounted between the dual glazing. Tilt-control knob will be located on the operable face and incorporate a "slip clutch" feature. Raise and lower pull cords will be located between glass for access only when glazed access panel is opened.

FABRICATION: Finish, fabricate, assemble, and factory-glaze frame and access panel members into complete windows under the responsibility of one manufacturer. Miter all corners and mechanically stake over a solid extruded aluminum corner block, set and sealed in epoxy; or miter and weld each corner. Provide two die cast concealed hinge pins, retained in injection molded nylon hinge blocks at sill and spring steel hinge clips at head. Die cast or stainless steel Allen-keyed locks for custodial operation shall secure panel in closed position. Provide locks at maximum 40" spacing. Weather-stripping shall be bulb- or fin-type neoprene, EPDM, dual-durometer PVC, polypropylene, TPE, or other suitable material as approved by the window manufacturer. Miter, crowd, stake or join at corners.

WARRANTY: Products: Submit a written warranty, executed by the window manufacturer, for a period of up to 10 years from the date of manufacture, against defective materials or workmanship, including substantial non-compliance with applicable specification requirements and industry standards, which result in premature failure of the windows, finish, factory-glazed glass, or parts, outside of normal wear. In the event that windows or components are found defective, manufacturer will repair or provide replacements without charge at manufacturer's option. Warranty for all components must be direct from the manufacturer (non pass-through) and non pro-rated for the entire term. Warranty must be assignable to the non-residential owner, and transferable to subsequent owners through its length.

Options

- Hinged or lift-out access panels
- Available with or without optional, integral between-glass blinds
- Glazing options for laminated glass or polycarbonate
- More than 30,000 color choices, in liquid and powder-coat paints, applied with 100% VOC-capture processes
- Frosty matte VOC-free anodize ideal for recycled aluminum
- Patina-free **copper anodize** available



ADVANTAGE
BY WAUSAU 

Pre-engineered standard products for competitive pricing and quick delivery

Library of Congress
Washington, D.C.
The Architect of the Capitol



Need replacement windows? Specify Wausau's **INvent™** Series projected windows with polyamide thermal barrier.



WAUSAU

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There's a reason so many of our nation's most important buildings, from art museums to elementary schools have Wausau windows...

For more than 55 years, Wausau has set the standard for performance, quality, and ease of installation.

Wausau engineering professionals ensure that each building's windows are right for its needs, such as pre-engineered school windows, architectural grade hospital windows, or customized historically accurate replacements.

Wausau supports your sustainable design goals and offers an industry-leading product warranty of up to 10 years.



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