Series 2800 Non-Thermal • Series 2900 Thermal*  
4 1/2” Architectural Grade Projected Window

CONFIGURATIONS  
Project-In and Project-Out • Casement • Fixed

Series 2800 carries an AAMA Architectural Grade rating to meet the most demanding specifications. Designed for educational, office or healthcare facilities, the 2800 window system is an attractive product for a wide range of applications. Multiple glazing options provide flexibility to meet specific design requirements. Offered with a complete line of sub frames, mullions and architectural sills, the 2800 window provides the complete solution for your fenestration needs.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Series 2900 only - Thermal barrier in vent and frame</td>
<td>Enhances energy saving potential</td>
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<td></td>
<td>Improved thermal performance</td>
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<tr>
<td>Vertical or horizontal stacking members</td>
<td>Increases configuration options</td>
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<tr>
<td>Dual glazing with optional integral blinds</td>
<td>Improved energy savings and interior light or privacy control with low maintenance</td>
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<tr>
<td>Angle reinforced vent corners</td>
<td>Improves sash/vent rigidity</td>
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<tr>
<td>Wide variety of locking and operating hardware available</td>
<td>Permits hardware options to address specific requirements</td>
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<tr>
<td>Pressure equalization</td>
<td>Superior water resistance</td>
</tr>
<tr>
<td>Screen frames of extruded aluminum alloy are available</td>
<td>Stronger, more durable screens</td>
</tr>
<tr>
<td>Anodized and painted finishes available</td>
<td>Multiple options to answer economic and aesthetic concerns</td>
</tr>
<tr>
<td>Accessory line of subframes, mullions, and architectural sills</td>
<td>Allows custom designs with standard product</td>
</tr>
</tbody>
</table>
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PERFORMANCE DATA

FIXED ARCHITECTURAL GRADE

AAMA RATING ......................................................... AW-PG155
AIR INfiltrATION ..................................... < 10 CFM/SF @ 6.27 PSF
WATER ........................................................ NO LEAKAGE @ 15.0 PSF
*CRF-FRAME .................................................... 64

PROJECTED ARCHITECTURAL GRADE

AAMA RATING PROJECT OUT ....................... AW-PG120
AIR INfiltrATION ..................................... < 10 CFM/SF @ 6.27 PSF
WATER ........................................................ NO LEAKAGE @ 15.0 PSF
*CRF-FRAME .................................................... 60

Note: All performance value data is based on laboratory testing per AAMA 101/5.2/440 for Air/Water/Structural, ASTM E90 and or E413 for Acoustical, AAMA 507 and or NFRC 100/200/500 for UFactors and AAMA 1503 for Condensation Resistance Factor (CRF). Printed values are subject to change pending the frequency of recertification testing. Field results will vary depending on size, the field test method, the addition of sub-frames, panning, mullions, accessories and installation into the surrounding condition.

2900 THERMAL U-FACTORS*

CENTER OF GLASS CONFIGURATION AND SIZE
U-FACTOR FX PD CMT 48” X 72” 59” X 24”
0.48 0.58 0.63 0.24 0.39 0.49
0.34 0.47 0.55 0.20 0.36 0.46
0.30 0.44 0.52 0.12 0.22 0.33
0.24 0.39 0.49
0.20 0.36 0.46

Note: Based on NFRC 100. Job specific performance ratings may vary due to differences in glass and glass spacer selection. If NFRC certified ratings are required, EFCO recommends requesting a CMA Bid Report at the bid stage from EFCO’s Product Technical Support Group to ensure performance will meet project specifications.

S-2800 & S-2900 GLAZING CHART

POLYCARBONATE GLASS OR PANEL

MONOLITHIC & INSULATED GLASS
A A A A A A A A A A
DUAL GLAZING
Exterior LITE I I I I I I I I A A
INTERIOR LITE
         A A A

* Obscure glass thickness
** Laminated glass thickness
A - Available glazing option
I - Internal blinds can be used with this type of dual glazing
Blank - N/A

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Frame Construction
The frame is constructed from .125” nominal material wall thickness aluminum of 6063-T6 alloy with a depth of 4 1/2”. It features a standard equal leg frame. Corners are of screw spline construction and back sealed with small-joint seam sealer. See Illustration 1.

Vent Frame Construction
The vent consists of a tubular member with .125” nominal material wall thickness aluminum of 6063-T6 alloy with a depth of 2”. Vent corners are mitered, angle reinforced, crimped, cold epoxy welded, and back sealed with small-joint seam sealer. See Illustration 2.

Weather Stripping
All vents are dual weather-stripped with a dual durometer Santoprene® gasket. The exterior gasket is intentionally omitted at the vent bottom rail for project-out vents and at the vent top rail for project-in vents, allowing air to pressure equalize the void between the vent and frame. Each vent utilizes the pressure equalization technique for superior water resistance. Two holes or slots per vent through the window frame facilitate weepage.

Screens
Screen frames are extruded 6063-T6 aluminum alloy frames. Full width hinged wickets or fully hinged screens are available. 18 x 16 mesh screens are available in fiberglass and .011” diameter aluminum. 18 x 18 mesh screens are available in .009” diameter stainless steel.

Thermal Barrier (S-2900 Only)
All frames and vents are thermally improved using the latest technology in two part high density polyurethane. See Illustration 3.

Hardware
Locking cam handles, access controlled locks, and keepers are of cast white bronze with a US25D finish. 4-bar hinges are fabricated of stainless steel meeting AAMA 904.1 requirements. Butt hinges are fabricated from extruded aluminum of 6063-T6 alloy with stainless steel pins. See the Hardware Chart for available hardware types.

Glazing
Windows are inside glazed with an extruded aluminum, snap-in glazing bead. Glazings of 1/8” to 1-1/4” can be utilized. Dual glazing is also available in 1/8”, 3/16”, and 1/4” glass. Aluminum blinds between the glass are available with dual glazed windows. See the Glazing Chart for exact size.
Some hardware options and/or combinations may not be available due to size and weight limitations. Please contact your local sales rep for more information.

PX32, 325X, and 450X hardware options are not included on this chart.