Series 433
2" x 4 1/2" Thermal Triple Set™ Storefront Framing

CONFIGURATIONS
Screw Spline • Shear Block

System 433 is a thermally broken storefront framing system. Glass planes can be placed in an outside set, center set or inside set configuration, which gives you design flexibility to meet any multi-plane glazing specification. Series 433 is compatible with all EFCO entrances.

Features | Benefits
---|---
Thermally broken frames | Enhanced thermal performance
Three glass planes | Create shadow box effect, match vision of architect
All joints and horizontal mullions are square cut | Facilitates shop fabrication of “ladders” that can be transported as a unit to job sites for quick installation
Door frames will accommodate glass in three planes | Glass plane effect can continue at door frames
90° and 135° inside and outside corner mullions | Accommodates multifaceted elevations
All joint fasteners are #12 screws | Strengthens system to allow transportation of ladders without damage to joinery system
Steel is available for mullions as stock steel bars or custom fabricated steel shapes | Eliminates the cost of customer steel fabrication
Accommodates up to 1 1/16” glazing | Allows system performance enhancements
Inside or outside glazing in all glass planes | Energy savings options
Uniform glazing gasket is used for exterior and interior | Allows flexibility of construction methods
Stock length or fabricated | Simplifies ordering and installation
Anodized or painted finishes available | Provides customers with an option

© Copyright 2009 EFCO Corporation 04/09
### 2" x 4 1/2" Thermal Triple Set™ Storefront Framing

#### PERFORMANCE DATA

**OUTSIDE SET/OUTSIDE GLAZED SCREW SPLINE CONFIGURATION**
- AIR INFILTRATION: <0.06 CFM/SF @ 6.24 PSF
- WATER: NO LEAKAGE @ 10.0 PSF
- STRUCTURAL: visit MyEFCO at www.efcocorp.com
  - CRF-FRAME (1503-98): 66<sup>a</sup>
  - CRF-Glass (1503-98): 69<sup>a</sup>

**INSIDE SET/OUTSIDE GLAZED SCREW SPLINE CONFIGURATION**
- AIR INFILTRATION: <0.06 CFM/SF @ 6.24 PSF
- WATER: NO LEAKAGE @ 10.0 PSF
- STRUCTURAL: visit MyEFCO at www.efcocorp.com
  - CRF-FRAME (1503-98): 66<sup>a</sup>
  - CRF-Glass (1503-98): 69<sup>a</sup>

**GLAZING**
System 433 can be inside or outside glazed with extruded aluminum, snap-in glazing bead. Glass is “dry glazed” with top load gasket. Glazing of 3/16” to 1-1/16” infill panels are accommodated. See glazing chart below for exact size.

#### 433 THERMAL U-FACTORS<sup>*</sup>

<table>
<thead>
<tr>
<th>CENTER OF GLASS U-FACTOR</th>
<th>CONFIGURATION AND SIZE</th>
<th>Fx/Fx**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>78 3/4&quot; x 78 3/4&quot;</td>
<td>120&quot; x 120&quot;</td>
</tr>
<tr>
<td>0.46</td>
<td>0.56</td>
<td>0.51</td>
</tr>
<tr>
<td>0.34</td>
<td>0.46</td>
<td>0.41</td>
</tr>
<tr>
<td>0.30</td>
<td>0.43</td>
<td>0.37</td>
</tr>
<tr>
<td>0.26</td>
<td>0.39</td>
<td>0.32</td>
</tr>
<tr>
<td>0.20</td>
<td>0.35</td>
<td>0.28</td>
</tr>
</tbody>
</table>

<sup>*</sup> Based on NFRC 100
<sup>**</sup>NFRC Gateway size

#### GLAZING CHART

<table>
<thead>
<tr>
<th>GLAZING</th>
<th>POLYCARBONATE</th>
<th>GLASS OR PANEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSULATED GLASS</td>
<td>3/16”</td>
<td>1/4”</td>
</tr>
<tr>
<td>MMONOLITHIC GLASS</td>
<td>C</td>
<td>C</td>
</tr>
</tbody>
</table>

<sup>*</sup> Obscure glass thickness
<sup>**</sup> Laminated glass thickness

A = Estimated values and/or designations
B = Non-standard size or configuration
C = Dual glazed
D = 1” Insulated - 1/4” clear, 1/2” air, 1/4” clear
E = 1” Insulated - 1/4” clear, (low Emissivity), 1/2” air, 1/4” clear
F = 1” Insulated - 1/4” clear, (low Emissivity), 1/2” argon, 1/4” clear
G = 1” Insulated - 1/4” clear, 1/2” air, 1/4” clear (Low Emissivity)

**- Obscure glass thickness
**- Laminated glass thickness
A = Available glazing option
C = Adaptor (and/or) gasket required
Blank = N/A
Series 433
2” x 4 1/2” Thermal Triple Set™ Storefront Framing

Frame Construction
Members are extruded 6063-T6 aluminum alloy with a nominal wall thickness of .080”. Corner construction employs a screw spline or shear block method and utilize #12 fasteners. Frame members have a face sight line of 2” and frame depth of 4 1/2”. See Illustration 1 & 2 for system joinery.

Glass planes can be placed in an outside set, center set, or inside set configuration. Both inside and outside glazing is available. 90° and 135° inside and outside corners are available.

Door Frames
Series 433 offers integral entrance frames in shear block construction. Members are nominally .080” in thickness. A standard entrance header is available as well as an entrance header that is designed for use with concealed overhead closers. Transom lite glazing is accommodated through either applied glass stops and glazing beads or extruded in place glazing pockets. Door stops are available as extruded in place or screw applied configurations.

Weather Stripping
All entrance frames are weather-stripped with bulb gasket.

Thermal Barrier
All frames and vents are thermally broken using the latest technology in two part, high density polyurethane.

Glazing
Series 433 can be inside or outside glazed with extruded aluminum, snap-in glazing bead. Glass is “dry glazed” with top load gasket. Glazing of 3/16” to 1 1/16” infill panels are accommodated. See Glazing Chart for exact size.