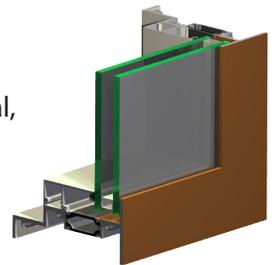


SERIES 450X / 450G



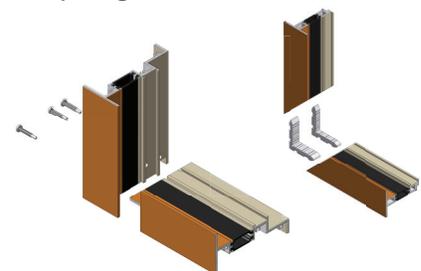
The 450X and 450G XTherm™ window series, were developed to meet the increasing energy-efficiency demands of today's marketplace. The deeper, strutted thermal break allows for triple glazing while also providing superior thermal separation of the framing materials. This window system is an attractive and versatile product that can be utilized on a wide range of applications from educational, to office and healthcare facilities. Offered with a complete line of thermal subframes, mullions, and architectural sills, the 450X and 450G provide the complete solution for your fenestration needs.



<p>AAMA RATING (A440)</p> <p>FX: AW150 PO: AW120</p> 	<p>STRUCTURAL LOAD (ASTM E330)</p> <p>FX: +/- 225.56 PSF PO: +/- 180.45 PSF</p> 
<p>AIR INFILTRATION (ASTM E283)</p> <p>FX: <0.10 CFM/FT² PO: <0.10 CFM/FT²</p> 	<p>WATER RESISTANCE (ASTM E547 & E331)</p> <p>FX: 15 PSF PO: 15 PSF</p> 
<p>U-FACTOR* (ANSI/NFRC 100/200)</p> <p>FX: 0.24 - 0.54 PO: 0.36 - 0.59</p> 	<p>CRF (AAMA 1503)</p> <p>FX: 75 PO: 74</p> 
<p>STC* (ASTM E90 & E413)</p> <p>FX: 35 - 44 PO: 34 - 43</p> 	<p>OITC* (ASTM E90 & E413)</p> <p>FX: 28 - 34 CSMT: 27 - 32</p> 
<p>FORCED ENTRY (ASTM F588 OR F842)</p> <p>FX: GRADE 40 PO: GRADE 40</p> 	<p>ACCESSIBILITY (AAMA 513)</p> <p>YES (OUTSWING, INSWING, & PO ONLY)</p> 

STANDARD FEATURES

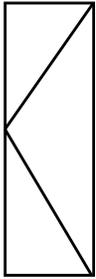
- 35 mm E-Strut™ thermal isolator
- Vertical or horizontal stacking members
- Dual glazing with optional integral blinds
- Pressure equalization
- Angle reinforced vent corners
- Wide variety of locking and operating hardware available
- Accessory line of subframes, mullions, and architectural sills
- Anodized or painted finishes available
- Screen frames of extruded aluminum alloy are available
- Snap-In grid available with 450G version



* Performance dependent on glass selection. Please contact your EFCO sales rep for project specific performance.

325X & 450X WINDOW HARDWARE CHART

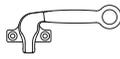
Casement-Out



Locking Hardware



Cam Handle



Pole Ring Cam Handle



Pull Handle



Applied Single Point Locking



Applied Multi Point Locking



Access Control Lock



Pole Pull Ring

Operating Hardware



4 Bar Arm w/ Limit Stop



Keyed Release Limit Arm



Concealed Hinge Keyed & Non-keyed



Butt Hinge



Roto Operator



Friction Adjuster

Reduced Motion & Operating Forces Hardware (AAMA 513)



Applied Multi Point Locking w/ Extended Lock Handle

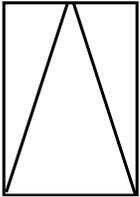


Single Arm Roto Operator



Butt Hinge

Project-Out



Locking Hardware



Cam Handle



Pole Ring Cam Handle



Access Control Lock



Lift Handle

Operating Hardware



4 Bar Arm



4 Bar Arm (Loose Rivet)



4 Bar Arm w/ Limit Arm



4 Bar Arm w/ Limit Stop Shim



Dual Shoe Roto Operator

Reduced Motion & Operating Forces Hardware (AAMA 513)



Cam Handle

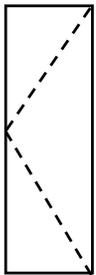


Dual Shoe Roto Operator

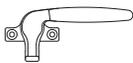


4 Bar Arm (Loose Rivet)

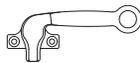
Casement-In



Locking Hardware



Cam Handle



Pole Ring Cam Handle



Applied Single Point Locking



Access Control Lock

Operating Hardware



Butt Hinge



Friction Adjuster



Concealed Hinge Keyed & Non-keyed



4 Bar Arm w/ Limit Stop

Reduced Motion & Operating Forces Hardware (AAMA 513)



Cam Handle

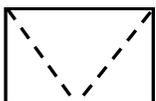


Applied Multi Point Locking w/ Extended Lock Handle

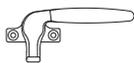


Butt Hinge

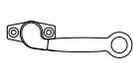
Project-In



Locking Hardware



Cam Handle



Pole Ring Cam Handle



Access Control Lock

Operating Hardware



4 Bar Arm



4 Bar Arm w/ Limit Stop



4 Bar Arm w/ Limit Stop Shim



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.