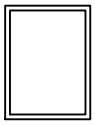
PERFORMANCE

The Series 8800 window is a thermally broken mainframe that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows. The system w/ Human Impact Sash is tested to AAMA 501.8.

Fixed (Picture Window)  AAMA 501.8 Impact Rating 2,000ft-lb$_{Force}$ Maximum Size 53" x 83" NAFS / AAMA 101 Test Size " x " Class: Not Rated Performance Grade: N/A Air Infiltration: < CFM Water Infiltration Resistance: > psf	Thermal performance results of the Retro-Fit Impact Sash are not possible to predict, calculate, or simulate without knowing the exact geometry, material properties and thermal performance of the existing primary fenestration and the exact placement of the Impact Sash relative to the primary fenestration. Heat build-up between the primary fenestration and Retro-Fit Impact Sash must be expected when the opening is subject to direct sun light. Verification that the primary fenestration's glass is capable of sustaining the resulting thermal stresses is advised.
Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes	
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"	
Product Type may be configured for Blast Resistant Installation ☒ No ☐ Yes [6]	

This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards.

Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product

Please contact WINCO for project specific information

[1] NFRC 101 Test & Rating Size

[2] Based on NFRC 100/200/500 Rating and LBNL Window 7.8 Simulations following NFRC Protocols

[3] AAMA 101 (NAFS) Gateway Test Size

[4] Based on LBNL Window Simulations following NFRC Protocols

[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[6] Blast Resistant Configuration is highly dependant on Product Size, Blast Design Load(s) and Project Specific Glass, Frame & Connection Response (Required Level of Protection, Allowable Hazard Level)

PERFORMANCE

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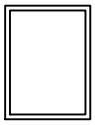
Fixed (Picture Window)  AAMA 501.8 Impact Rating 2,000ft-lb$_{Force}$ Maximum Size 53" x 83" NAFS / AAMA 101 Test Size " x " Class: Not Rated Performance Grade: N/A Air Infiltration: < CFM Water Infiltration Resistance: > psf	Thermal performance results of the Retro-Fit Impact Sash are not possible to predict, calculate, or simulate without knowing the exact geometry, material properties and thermal performance of the existing primary fenestration and the exact placement of the Impact Sash relative to the primary fenestration. Heat build-up between the primary fenestration and Retro-Fit Impact Sash must be expected when the opening is subject to direct sun light. Verification that the primary fenestration's glass is capable of sustaining the resulting thermal stresses is advised.
Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes	
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"	
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Please contact WINCO for project specific information

[1] NFRC 101 Test & Rating Size

[2] Based on NFRC 100/200/500 Rating and LBNL Window 7.8 Simulations following NFRC Protocols

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[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[6] Blast Resistant Configuration is highly dependant on Product Size, Blast Design Load(s) and Project Specific Glass, Frame & Connection Response (Required Level of Protection, Allowable Hazard Level)

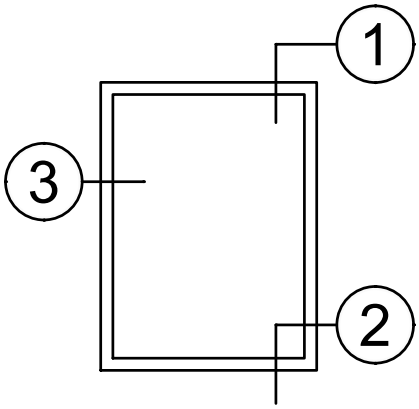
HARDWARE

All 8800 Series windows are fixed. The human impact sash is a hinged configuration with concealed stainless steel hinges and multi point locks. The lock is mounted in a manner to achieve a flush appearance and avoid hardware protrusions to enhance the safety of the product. The blind control knob is a thumb turn design which also does not offer any hardware protrusions.

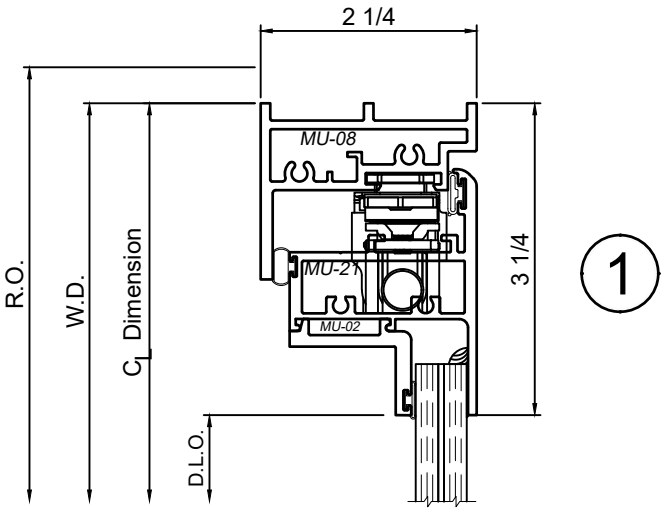
For an Anti-Ligature configuration as tested and approved by the New York State Office of Mental Health (NYSOMH) an optional closure bar is furnished at the top of the sash with corner fillers which render the top corners of the sash inaccessible and thus reduce the risk of ligature related injury. Closure plates are also furnished to be field applied over the lock penetrations after the window installation is completed. The blind tilt control knob for the NYSOMH Anti-Ligature configuration is WACI No. 5502 (Concealed Mounted) or WACI No. 5504 (Surface Mounted) which will force a string or fabric to slide of under load and does not offer any recesses to wedge any cord or string into. It does feature a 3/4" protrusion which could potentially lead to injury if impacted with a body part. An alternate Blind Control Knob is the Thumb-Wheel WACI No. 5159 (Concealed Mounted) which does not protrude thru the Impact Sash Frame, but requires more user effort to operate.

The NYSOMH configuration includes a GEM Lock. The GEM Lock is in addition to and not in lieu of the standard concealed multi point locks. The standard locks are required to meet AAMA 501.8 Impact testing. The punched passage to the locks is rendered inaccessible via the afore mentioned closure plates.

If non-impact resistant windows are desired in addition to AAMA 501.8 Impact Resistant windows, the blind accessory sash can be configured with an alternate glazing bead to house 1/4" nominal glazing infill and optional lift-out hardware. For Human Impact applications, the lift out hardware is not an option at this time.



Note:
The primary (exterior) glazing remains undisturbed by the addition of the 8800 Retro-Fit Impact Sash. It can be accessed for maintenance, but not be used for ventilation.
Sealing against intrusion of Air or Water from the building's exterior must be addressed in the primary (exterior) glazing system.



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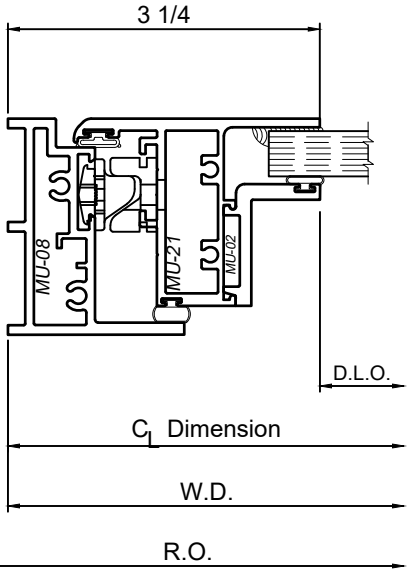
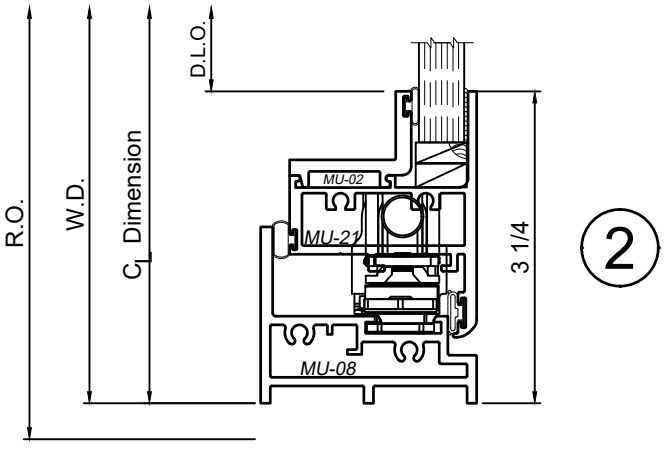


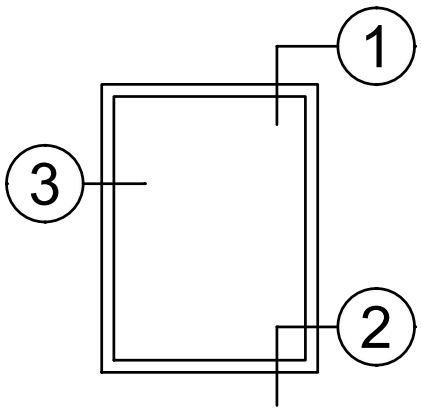
3



2

SCALE 6"=1'-0"

8800 Series 4" Thermal Fixed Human Impact Windows
Product Details - Picture Window (Retro Fit) Anti-Ligature Option



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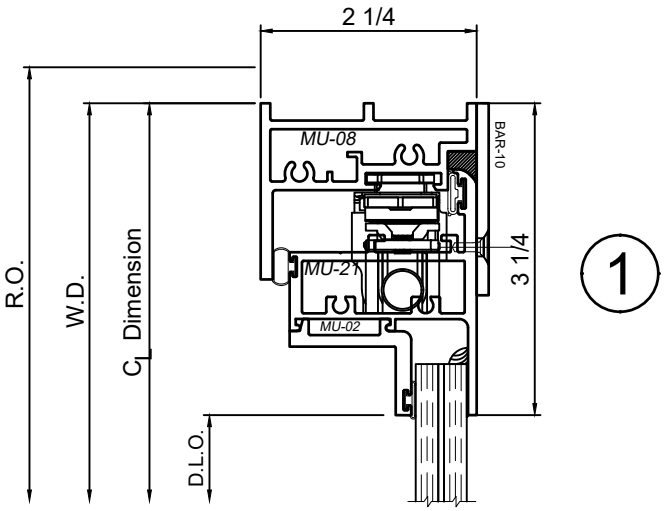
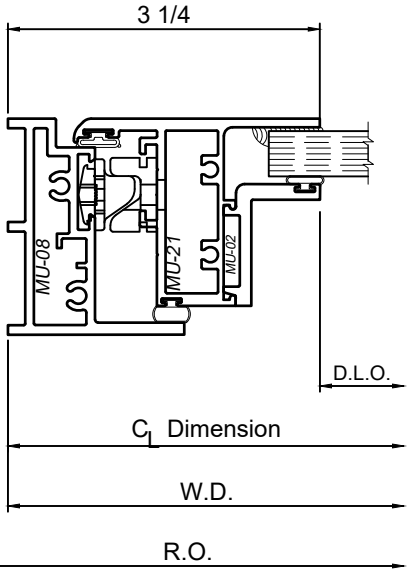
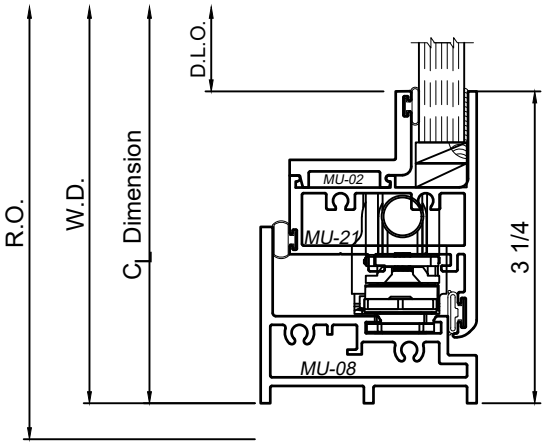


1



3

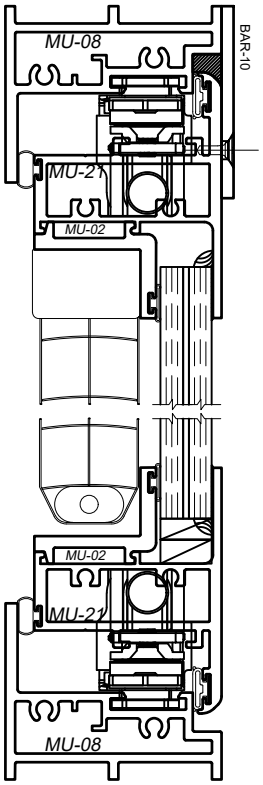


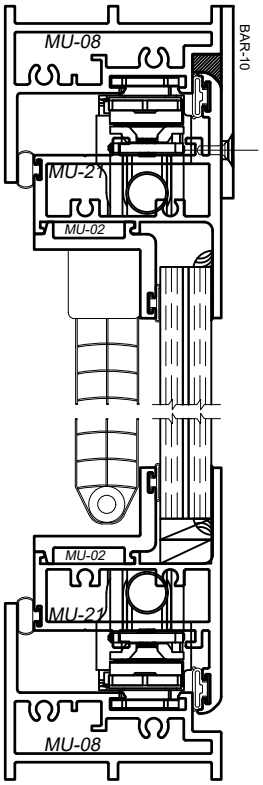
2

SCALE 6"=1'-0"

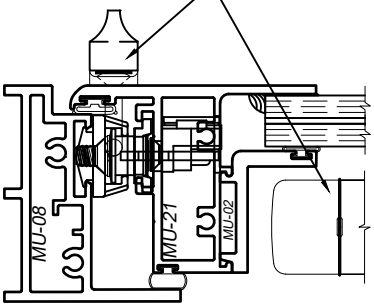
8800 Series 4" Thermal Fixed Human Impact Windows
Product Details - Retro Fit Anti-Ligature Option

Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

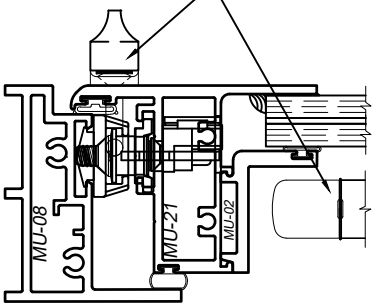


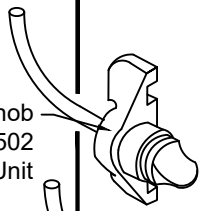


shown w/ optional 1" blinds
Anti-Ligature Blind Knob 5504

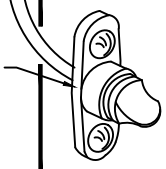


shown w/ optional 5/8" blinds
Anti-Ligature Blind Knob 5504





Default Tilt Control Knob
Concealed mounted Anti-Ligature Blind Knob 5502
tested by NYSOMH mounted on WINCO 8800 Unit

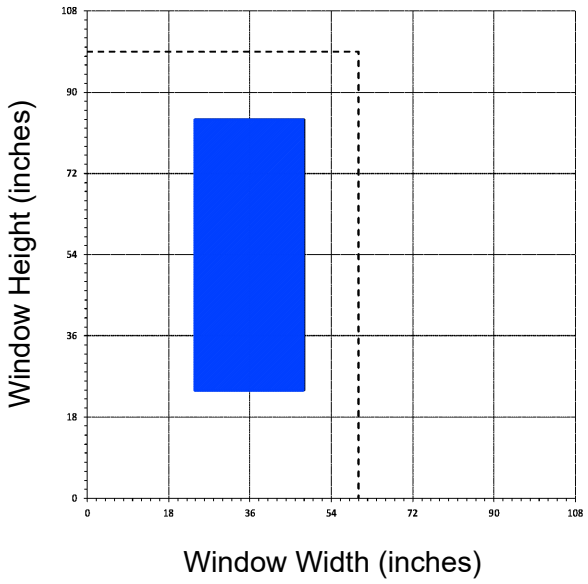


Alternative Tilt Control Knob:
Surface mounted Anti-Ligature Blind Knob 5504
tested by NYSOMH mounted on WINCO 8800 Unit

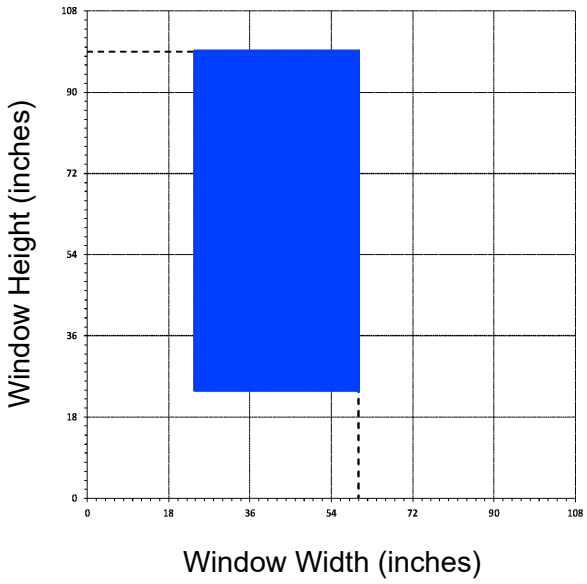
SCALE 6"=1'-0"

8800 Series 4" Thermal Fixed Human Impact Windows
Window Unit Size Chart

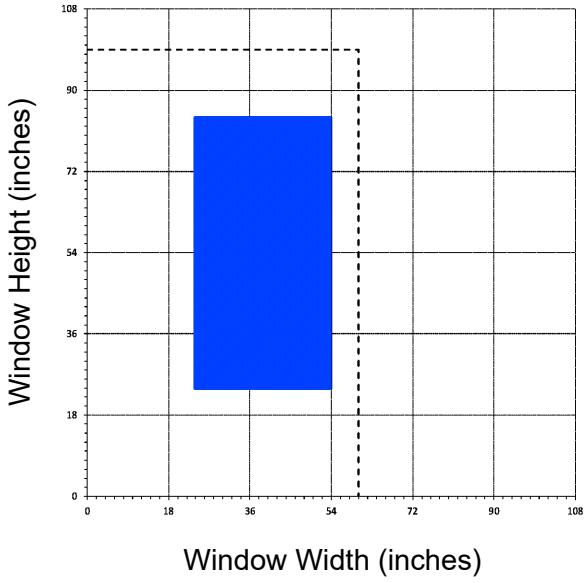
Fixed 1500 ft lbs Impact
9/16" Laminate Impact Panel



Fixed 1800 ft lbs Impact
1/2" Polycarbonate Impact Panel



Fixed 2000 ft lbs Impact
1/2" Polycarbonate Impact Panel



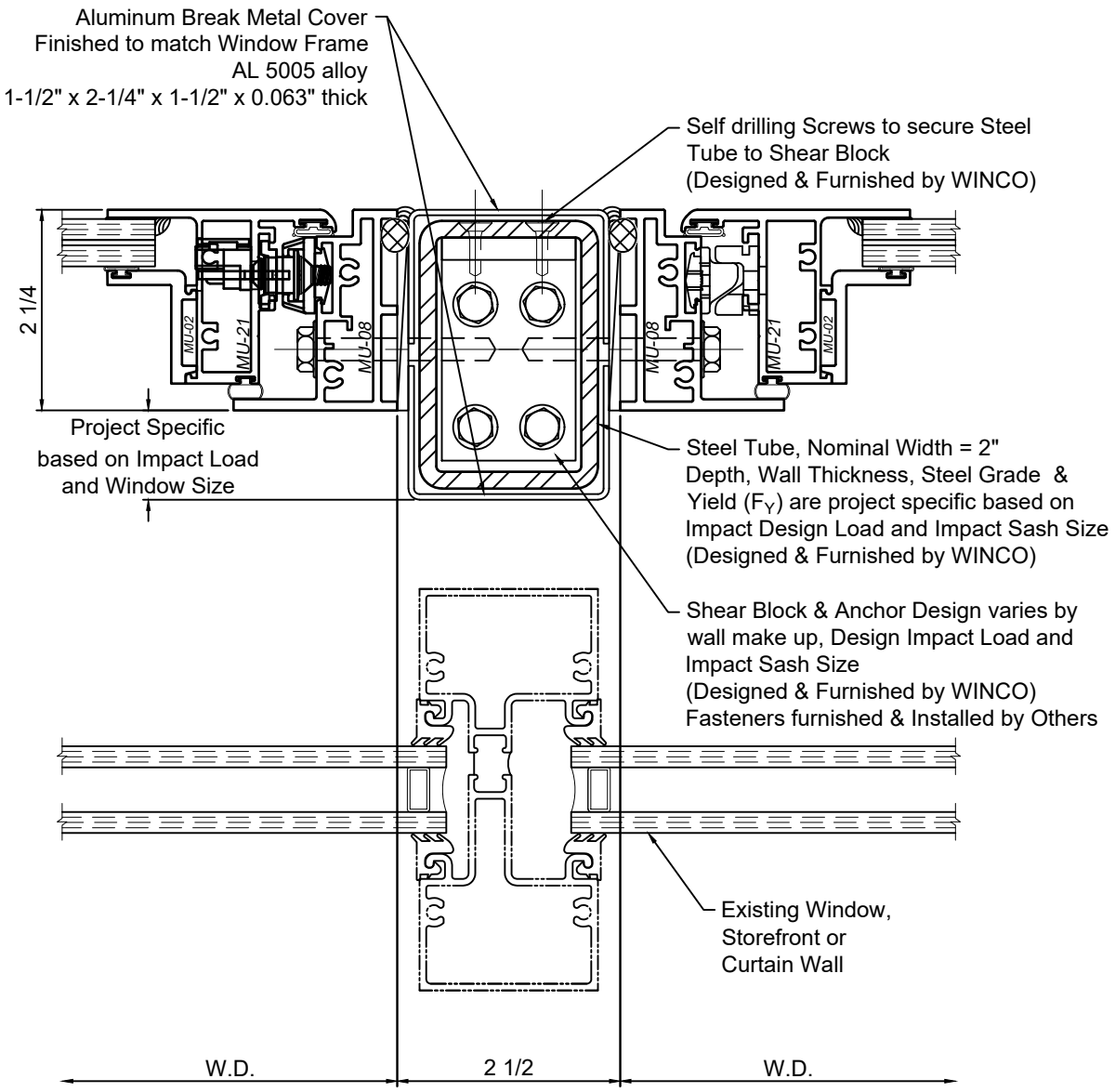
- - - - AAMA Gateway Test Size
(without Impact Panel to AAMA 101 / I.S.2 / / ANSI 440 / NAFS for Air/Water/Structural performance)

The 8800 Human Impact Series was tested in multiple glazing configurations to AAMA 501.8
- With 9/16" Laminated Impact Panel at 1,500 ft lbs
- With 1/2" Polycarbonate Impact Panel at 1,800 ft lbs
- With 1/2" Polycarbonate Impact Panel at 2,000 ft lbs

Note that the maximum certified size is limited by the AAMA 501.8 Impact Test Size, not the AAMA 101 Air/Water/Structural Test size.

- Dashed line represents the size window as tested to AAMA 101 for Air/Water/Structural Performance
- Chart assumes the window has been installed in a properly prepared opening by a qualified installer.
- Individual job criteria such as: other glazing materials, specified wind load, and specific operating hardware; may enhance or restrict the chart.
- Minimum Unit size is 24" x 24".
- The chart is a general guideline for Human Impact window unit sizing. Anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

HSS (Steel Tube) w/ Break Metal Cladding



SCALE 6"=1'-0"