Oldcastle BuildingEnvelope™

ICR-225 - Window Wall

STRUCTURAL CHARTS

JUNE 2012

Phone: 1-866-OLDCASTLE (653-2278)
Web Address: www.oldcastlebe.com

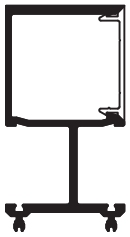
ICR-225 - WINDOW WALL - WINDLOAD CHARTS

Data is based on deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6", with a maximum deflection of 1 1/4". All curves reflect single span conditions, unless noted otherwise.

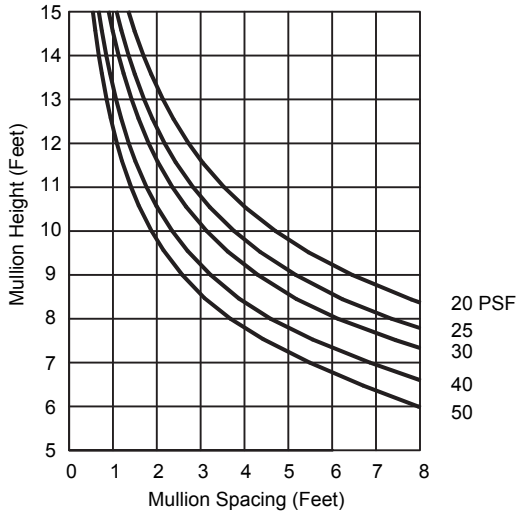
These curves reflect the limiting value for mullions with horizontals and are based on allowable windload stress for T6 aluminum (15,000 psi) and A36 steel (20,000 psi).

A 4/3 increase in allowable stress is not reflected in these curves. For special applications not covered by these curves, please consult your local Oldcastle BuildingEnvelope™ facility for assistance.

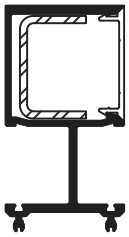
ICR-400 / 406



I = 3.088
S = 1.432

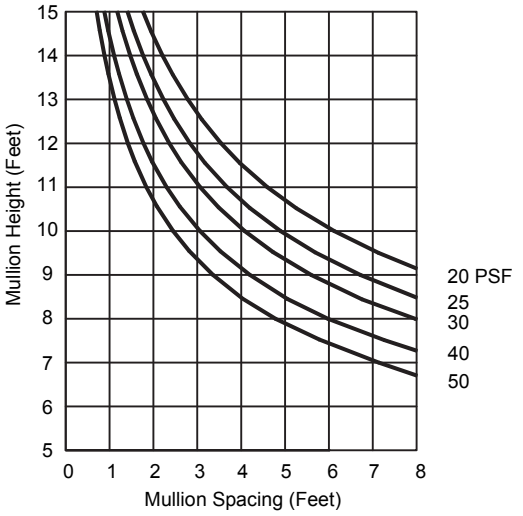


ICR-400 / 406

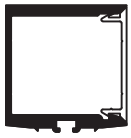


I = 3.088
S = 1.432

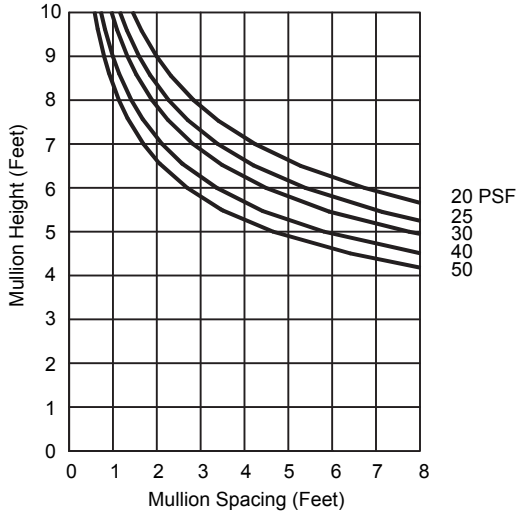
RS-28
I = 0.320
S= 0.330



ICR-404 / 406



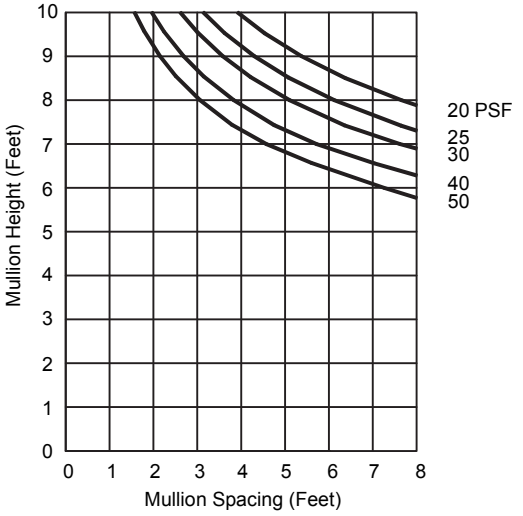
I = 0.954
S = 0.814



ICR-404 / 406

I = 0.954
S = 0.814

RS-27
I = 0.558
S= 0.638



Data is based on deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6", with a maximum deflection of 1 1/4". All curves reflect single span conditions, unless noted otherwise.

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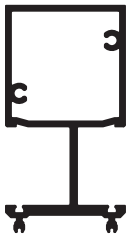
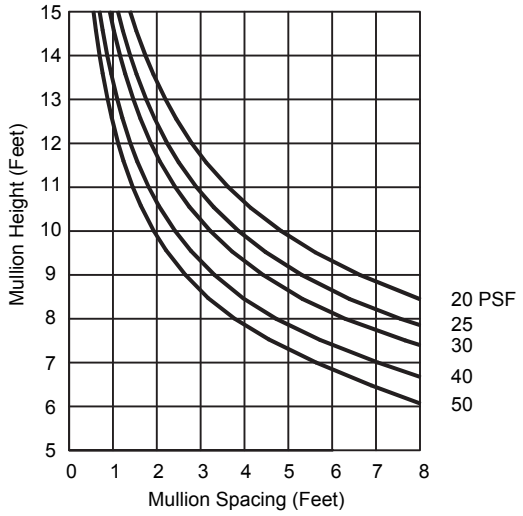
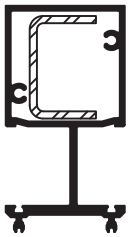
ICR-450



I = 3.172
S = 1.476

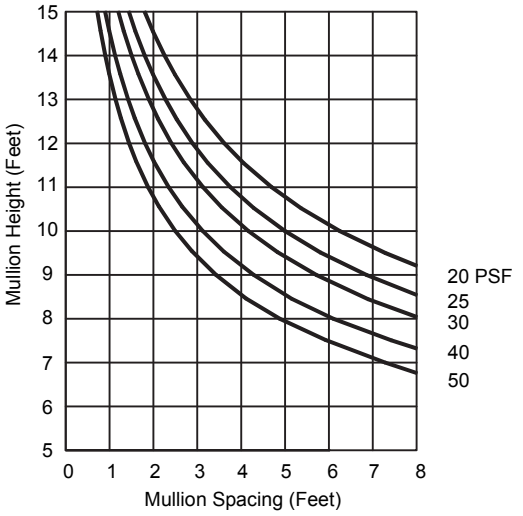


ICR-450

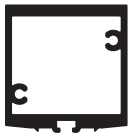


I = 3.172
S = 1.476

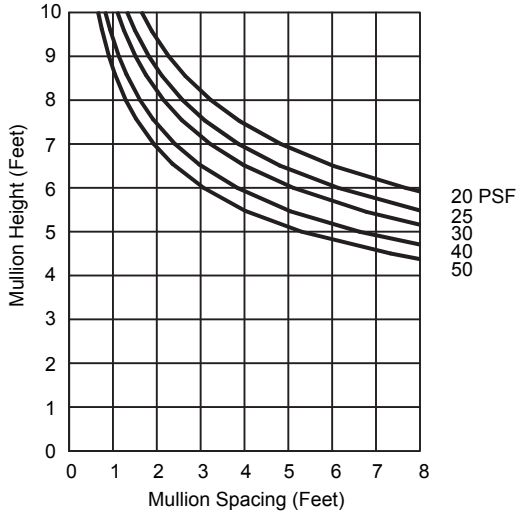
RS-28
I = 0.320
S= 0.330



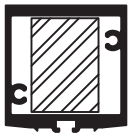
ICR-454



I = 1.087
S = 0.911

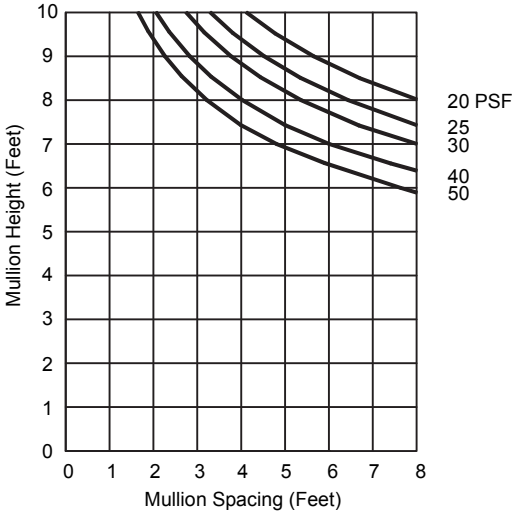


ICR-454



I = 1.087
S = 0.911

RS-27
I = 0.558
S= 0.638



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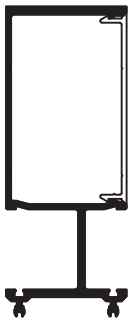
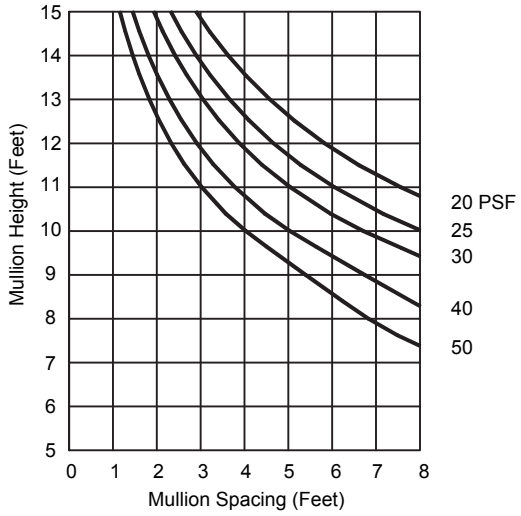
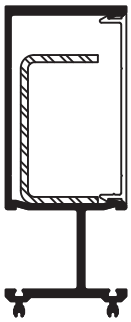
ICR-610 / 616



I = 6.606
S = 2.184

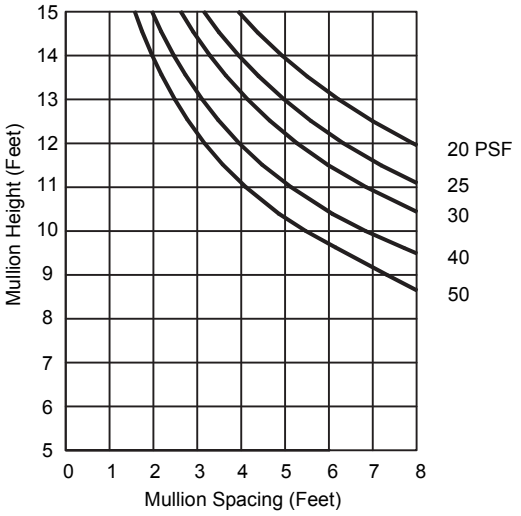


ICR-610 / 616

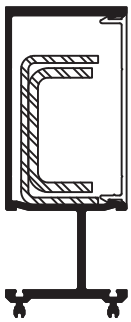


I = 6.606
S = 2.184

HP-19
I = 0.817
S= 0.588



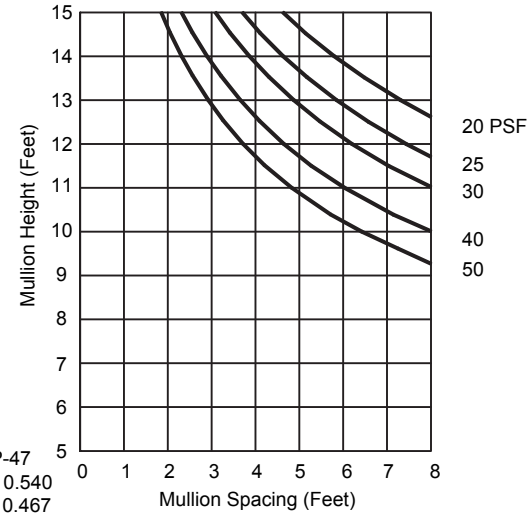
ICR-610 / 616



I = 6.606
S = 2.184

HP-19
I = 0.817
S= 0.588

HP-47
I = 0.540
S= 0.467



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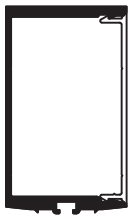
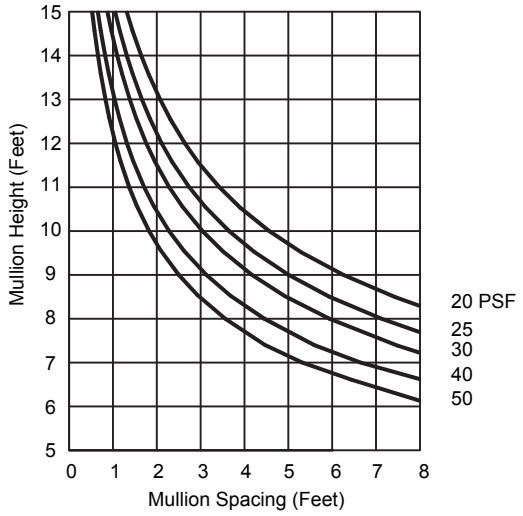
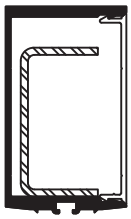
ICR-624 / 616



I = 2.993
S = 1.526

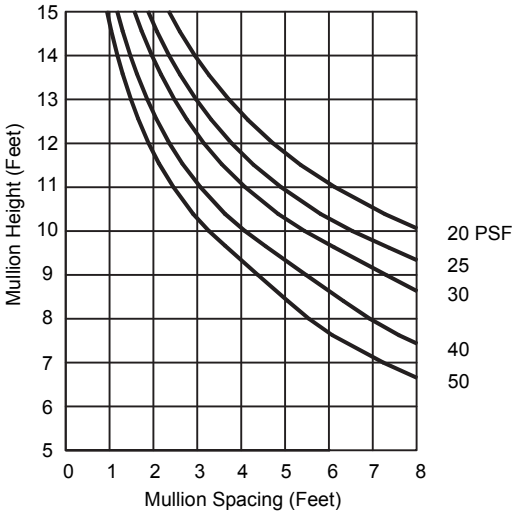


ICR-624 / 616

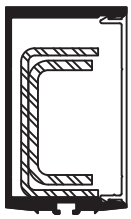


I = 2.993
S = 1.526

HP-19
I = 0.817
S= 0.588

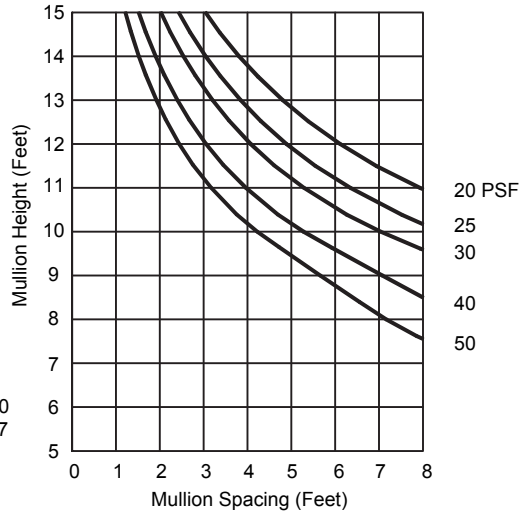


ICR-624 / 616



I = 2.993
S = 1.526

HP-19 HP-47
I = 0.817 I = 0.540
S= 0.588 S= 0.467



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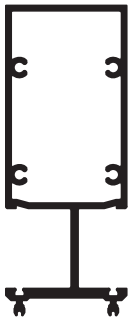
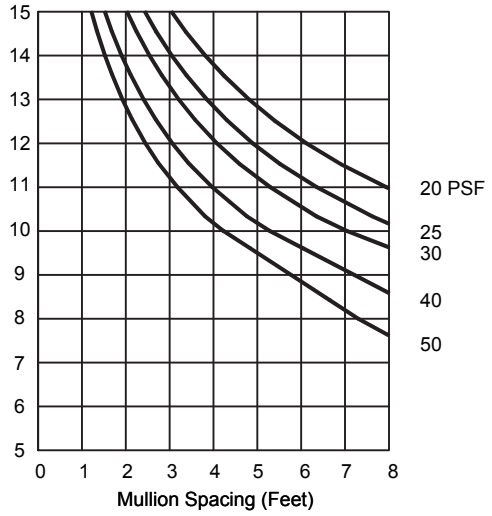
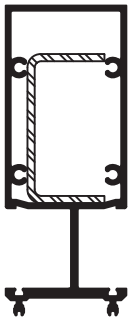
ICR-650



I = 6.938
S = 2.336

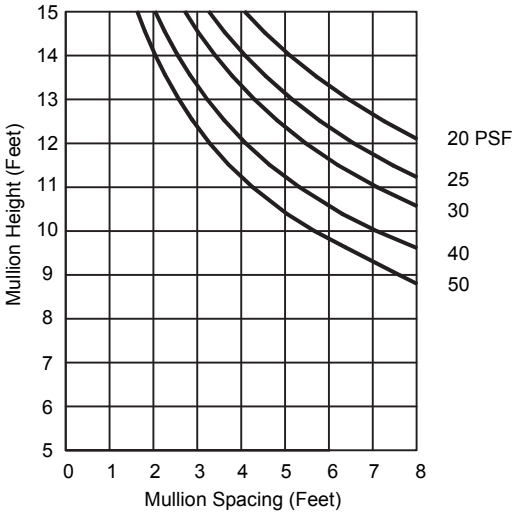


ICR-650

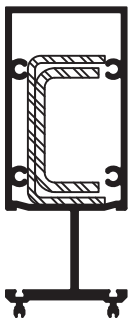


I = 6.938
S = 2.336

HP-19
I = 0.817
S= 0.588

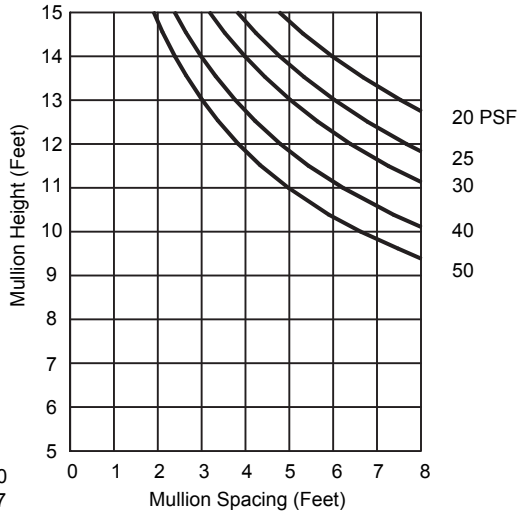


ICR-650



I = 6.938
S = 2.336

HP-19 HP-47
I = 0.817 I = 0.540
S= 0.588 S= 0.467



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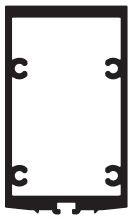
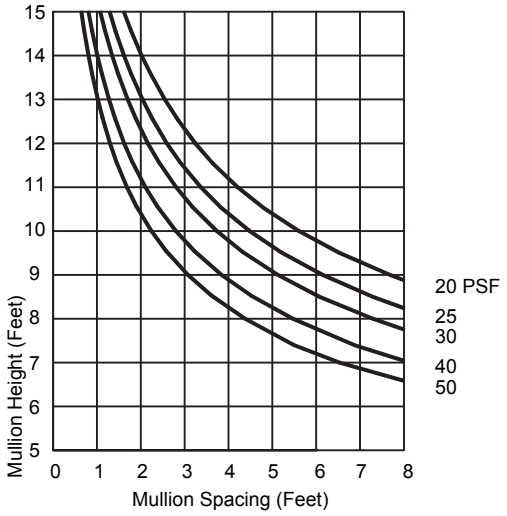
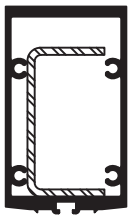
ICR-654



I = 3.676
S = 1.877

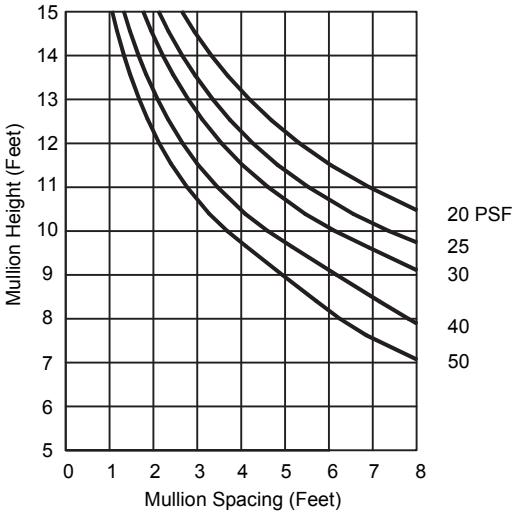


ICR-654

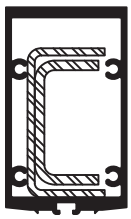


I = 3.676
S = 1.877

HP-19
I = 0.817
S= 0.588



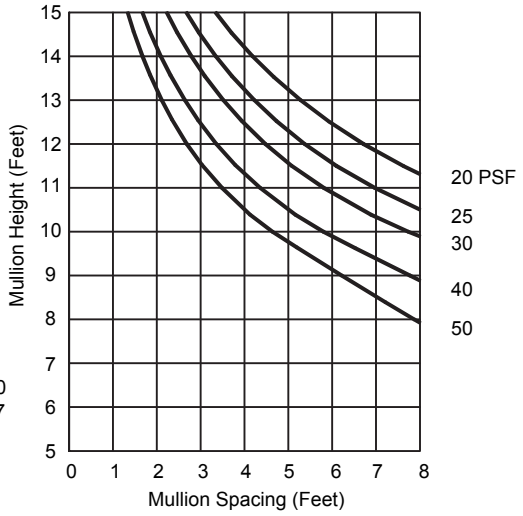
ICR-654



I = 3.676
S = 1.877

HP-19
I = 0.817
S= 0.588

HP-47
I = 0.540
S= 0.467



Data is based on maximum deflection of 1/8" at the center of an intermediate horizontal. All curves are calculated for 1" thick insulating glass (6.5 PSF) supported on two setting blocks at 1/4 or 1/8 point loading locations.

These curves are based on allowable windload stress for T6 aluminum (15,000 psi).

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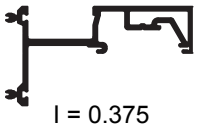
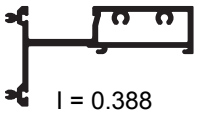
ICR-412

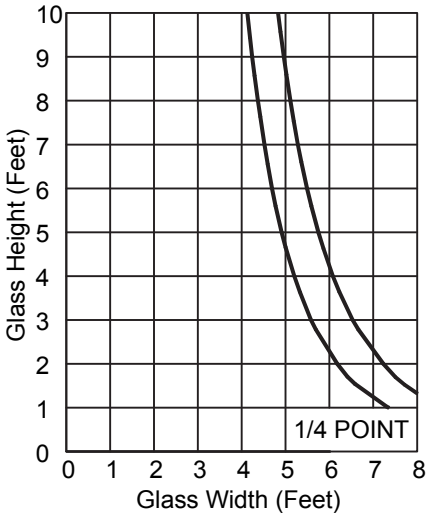


I = 0.375
S = 0.237

ICR-414

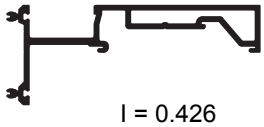


I = 0.388
S = 0.249



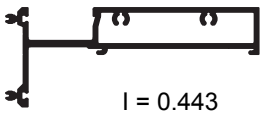
1/8 POINT

ICR-612

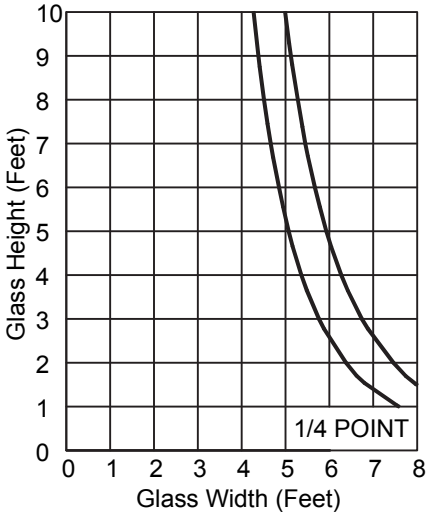


I = 0.426
S = 0.257

ICR-614



I = 0.443
S = 0.277



1/8 POINT