Oldcastle BuildingEnvelope®
A CRH COMPANY

ThermaStack™ Storefront

STRUCTURAL CHARTS

JUNE 2021

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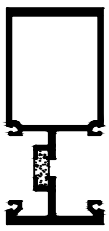
THERMASTACK™ STOREFRONT - WIND LOAD CHART

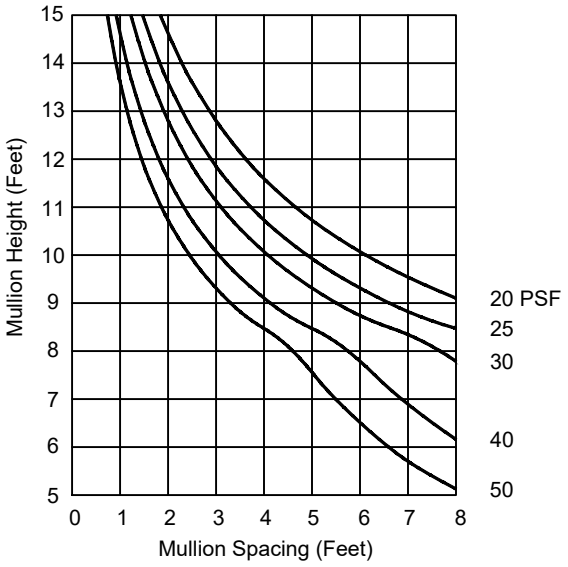
Data is based on deflection limitations in accordance with AAMA TIR-A11 and AAMA TIR-A8 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6", with a maximum deflection of 1 1/4". All curves reflect single span conditions, unless noted otherwise.

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).

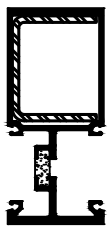
For special applications not covered by these curves, please consult your local Oldcastle BuildingEnvelope® facility for assistance.

TS-108

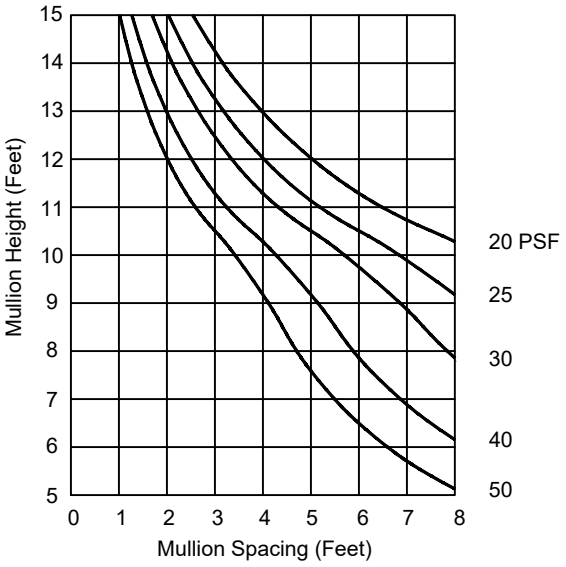




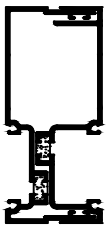
TS-108

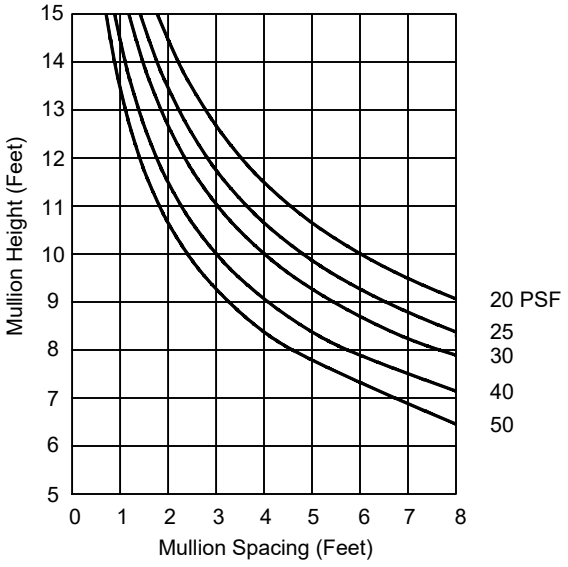


RS-41 Steel
I = 0.447
S = 0.447

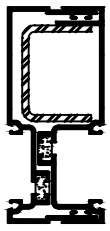


TS118 / TS119

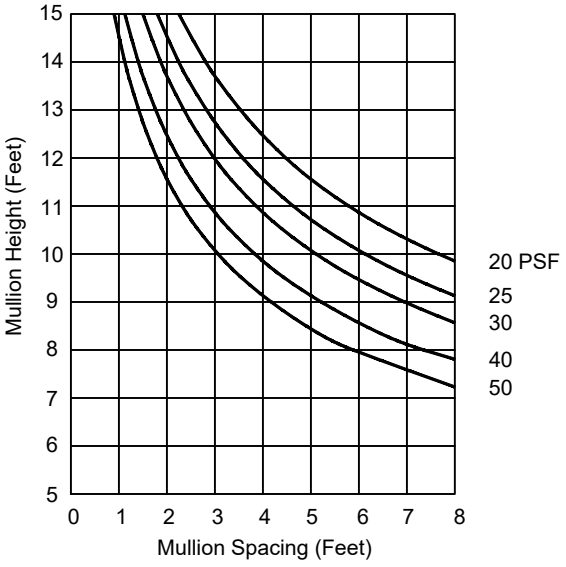




TS118 / TS119



RS-42 Steel
I = 0.373
S = 0.373



THERMASTACK™ STOREFRONT - SSG - WIND LOAD CHART

Data is based on deflection limitations in accordance with AAMA TIR-A11 and AAMA TIR-A8 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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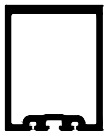
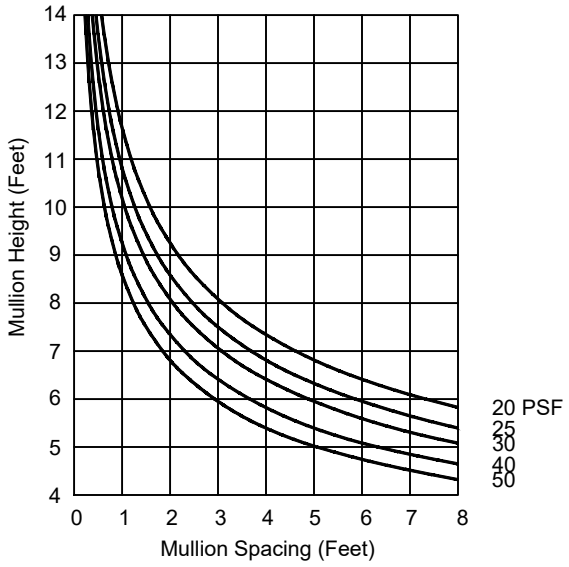
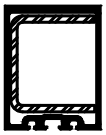
TS-104



I = 1.038
S = 0.814

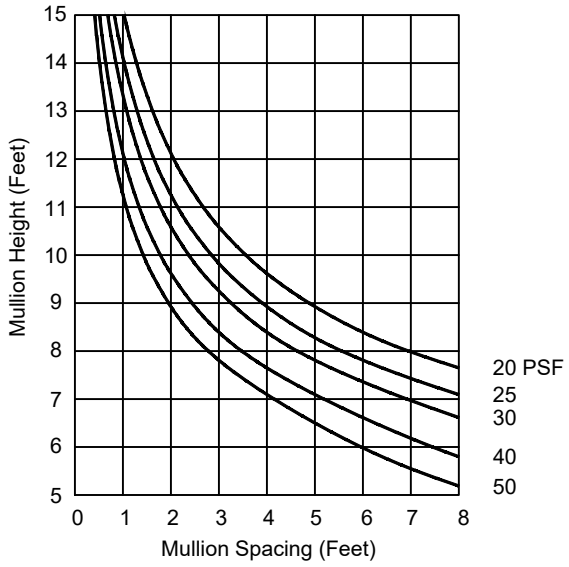


TS-104



I = 1.038
S = 0.814

RS-40 Steel
I = 0.447
S = 0.447



THERMASTACK™ STOREFRONT - ENTRANCE - WIND LOAD CHART

Data is based on deflection limitations in accordance with AAMA TIR-A11 and AAMA TIR-A8 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).

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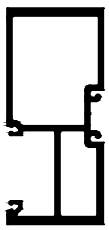
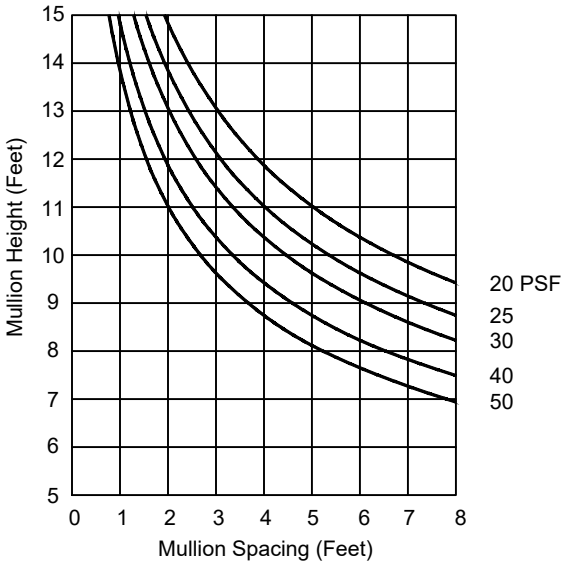
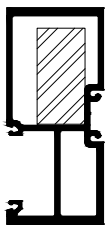
TS-134



I = 4.392
S = 2.056

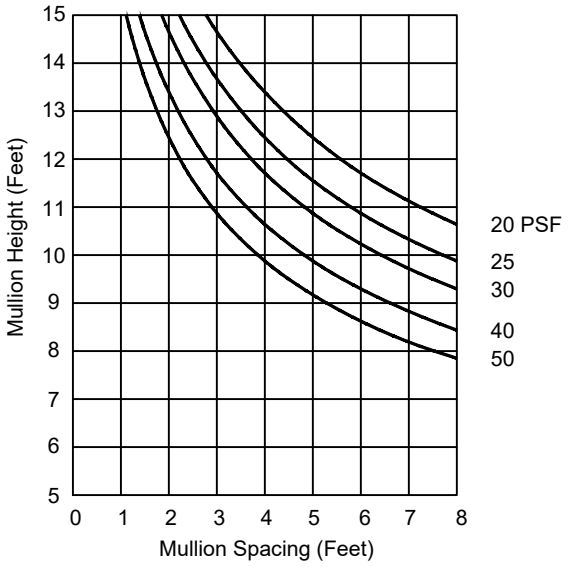


TS-134



I = 4.392
S = 2.056

RS-43 Steel
I = 0.667
S = 0.667



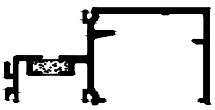
THERMASTACK™ STOREFRONT - DEAD LOAD CHART

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.

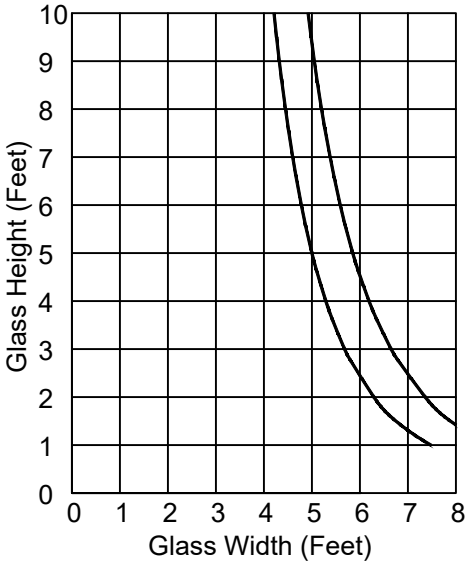
These curves are based on allowable windload stress for T6 aluminum (15,000 psi).

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.

TS-106

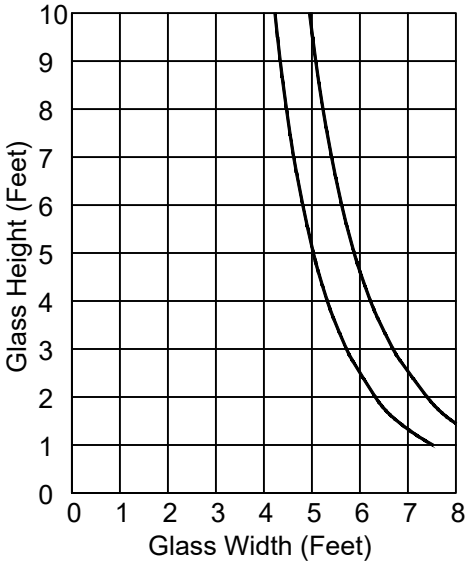


I = 0.403
S = 0.469



TS-125

I = 0.412
S = 0.311



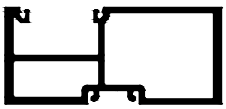
THERMASTACK™ STOREFRONT - ENTRANCE - DEAD LOAD CHART

Data is based on maximum deflection of 1/16" 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).

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.

TS-134



I = 0.873
S = 0.973