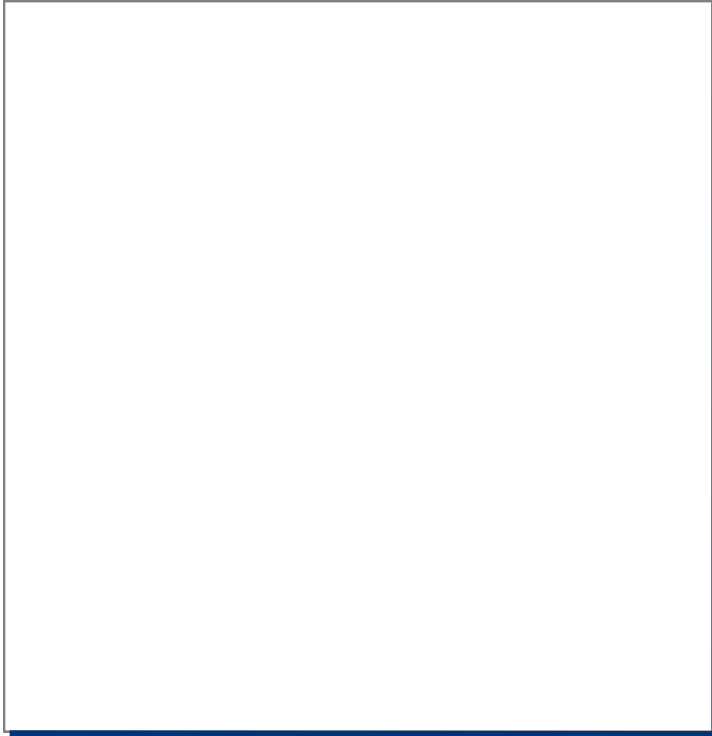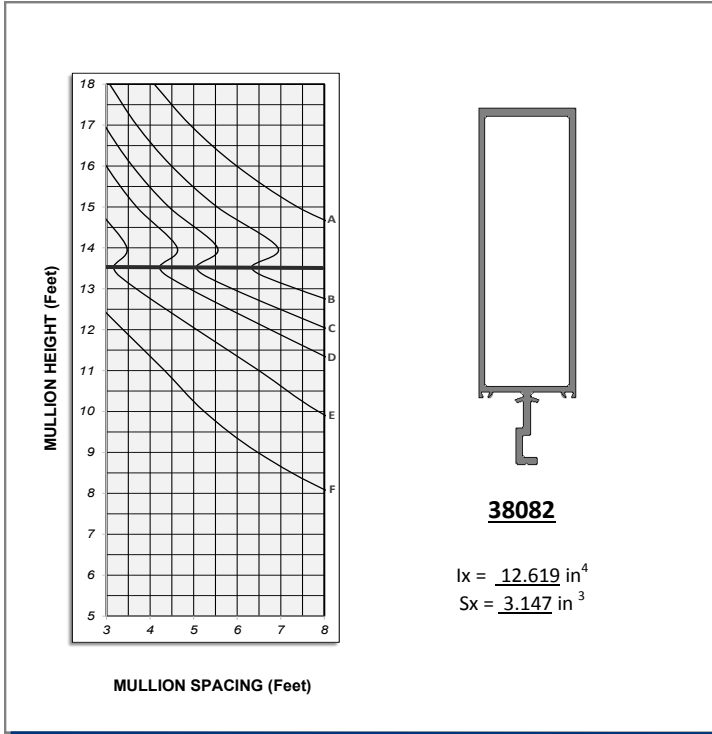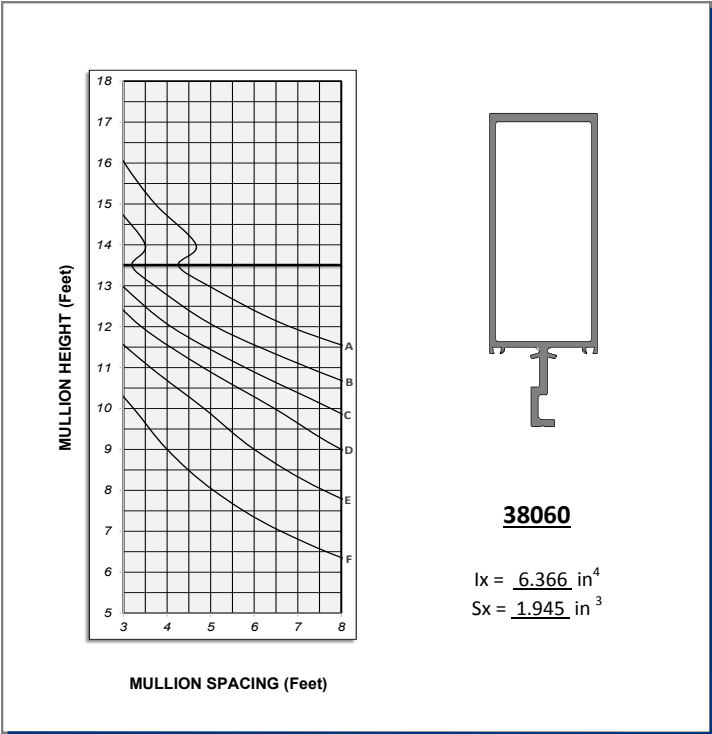# WINDLOAD CHARTS | SB380 SERIES

A = 15 P.S.F.   D = 30 P.S.F.
B = 20 P.S.F.   E = 40 P.S.F.
C = 25 P.S.F.   F = 60 P.S.F.

DESCRIPTION: 2" x 4 1/2" & 2" x 7 3/8" CURTAIN WALL SYSTEM
CATEGORY: CURTAIN WALL
SCALE: NTS

Trulite
GLASS & ALUMINUM SOLUTIONS™

38060

Ix = __6.366__ in^4
Sx = __1.945__ in^3

MULLION HEIGHT (Feet) / MULLION SPACING (Feet)

38082

Ix = __12.619__ in^4
Sx = __3.147__ in^3

MULLION HEIGHT (Feet) / MULLION SPACING (Feet)

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- Deflections have been calculated using the algebraic sum of the individual Ix-values.
- Bending stress has been apportioned by relative Ix of the appropriate members.
- Mullions are assumed to be a single span, simple beam, uniformly loaded and adequately braced against lateral-torsional buckling. All other complex design conditions shall be reviewed by a design professional.
- Aluminum extrusions shall be 6063-T6 (Fy=25ksi) alloy. Steel reinforcement if used shall be A36 steel (Fy=36ksi) minimum. Allowable stresses to be derived as per Table 2-21 of Aluminum Design Manual, 2010. Deflection limitation of mullions shall be in accordance with AAMA TIR-A11 of L/175 or 3/4" (which ever is less) for spans up to 13'-6" and L/240 + 1/4 for all others where L is equal to the span of mullion (Zigzag curves are due to these deflection limits).
- For mullions containing steel reinforcement, the reinforcement is assumed to be installed for the full length of the mullion. A design professional shall be consulted for instances where steel reinforcement is installed for a partial length of the mullion span.
- Windload pressure determinations shall be as per the 2012 IBC and ASCE 7-10 (nominal/ASD) and according to local governing codes. A professional engineer shall be consulted for the most current laws and local building codes.
- Selection of perimeter fasteners and attachment of glazing system to the building structure are project specific and therefore shall be reviewed and determined by a design professional.
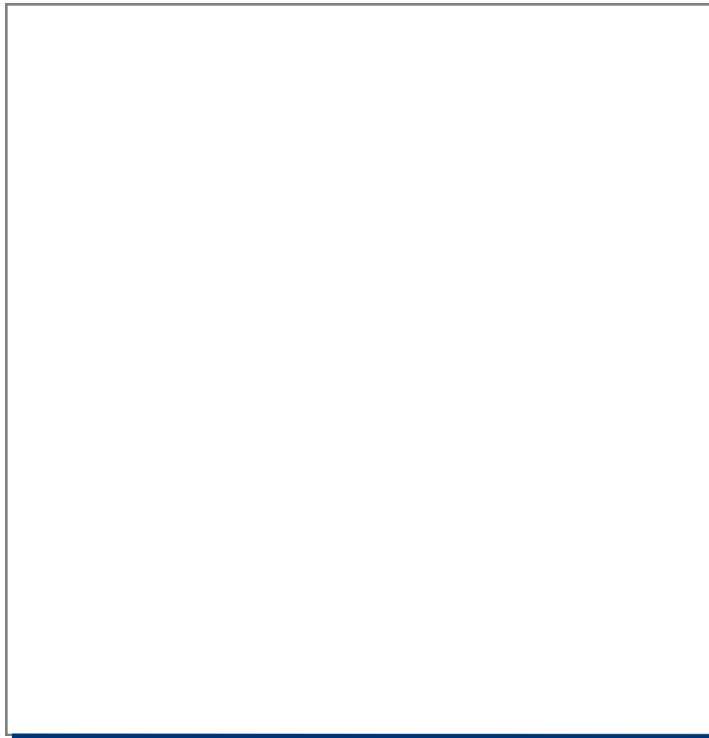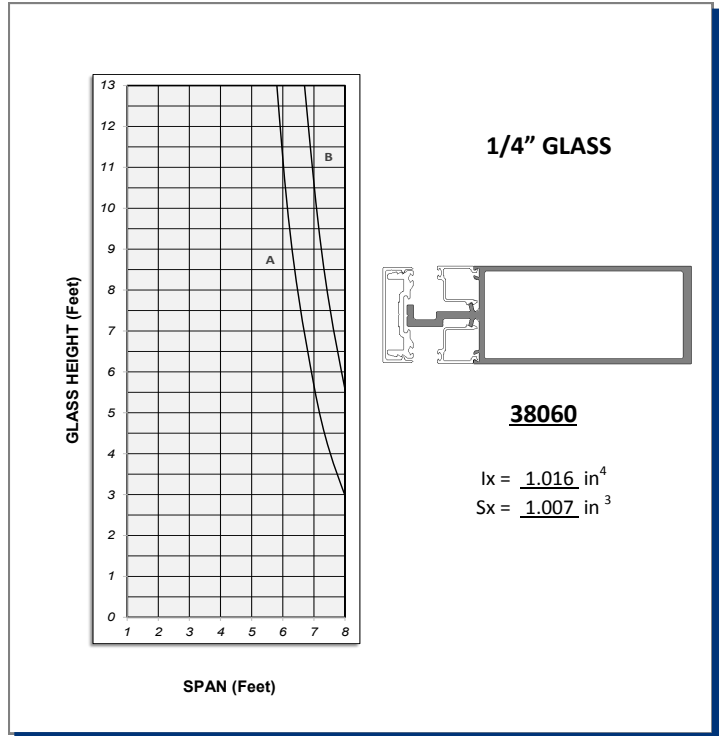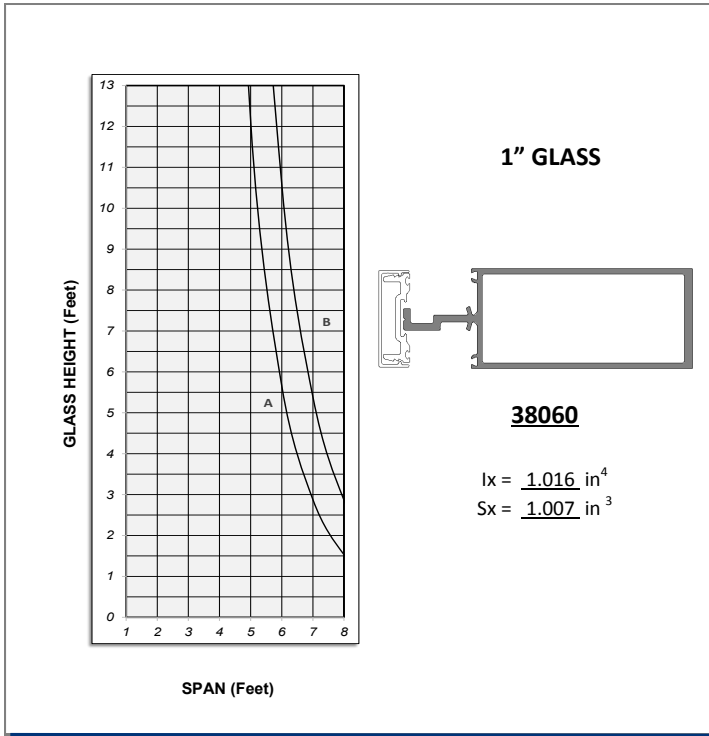- Trulite assumes no responsibility for selecting the appropriate systems for specific projects.

DEADLOAD CHARTS | SB380 SERIES

A = 1/4 Point Loading
B = 1/8 Point Loading

DESCRIPTION: 2" x 6 3/8" CURTAIN WALL SYSTEM
CATEGORY: CURTAIN WALL
SCALE: NTS

Trulite
GLASS & ALUMINUM SOLUTIONS™

1" GLASS

38060

Ix = 1.016 in^4
Sx = 1.007 in^3

1/4" GLASS

38060

Ix = 1.016 in^4
Sx = 1.007 in^3

- Deflections have been calculated using the algebraic sum of the individual Ix-values.
- Bending stress has been apportioned by relative Ix of the appropriate members.
- Transoms are assumed to be single span and glass deadload is concentrated at L/4 or L/8, where L is equal to the span of transom.
- Aluminum extrusions shall be 6063-T6 (Fy=25ksi) alloy. Steel reinforcement if used shall be A36 steel (Fy=36ksi) minimum. Allowable stresses to be derived as per Table 2-21 of Aluminum Design Manual, 2010. Deflection limitation of transoms shall be L/360 as per IBC 2012 Sect. 1604.3 or 1/8" (which ever is less).
- For transoms containing steel reinforcement, the reinforcement is assumed to be installed for the full length of the transom. A design professional shall be consulted for instances where steel reinforcement is installed for a partial length of the transom span.
- Deadload considered is based on 1/4" thick or 1" (actual total glass thickness = 0.5") thick glass and weight of transom member plus reinforcement if any.
- Selection of perimeter fasteners and attachment of glazing system to the building structure are project specific and therefore shall be reviewed and determined by a design professional.
- Trulite assumes no responsibility for selecting the appropriate systems for specific projects.