

Jamb & Header System

Industry standard nomenclature is used to identify MBA's products. The Steel Framing Industry Association has established standard designation codes for structural studs and track. In each case, the identification starts with the measurement of the width of the member, followed by a letter (J = jamb stud and H = header) followed by the flange dimension. A hyphen is used to separate all of this from the thickness of the metal.

Member Depth:

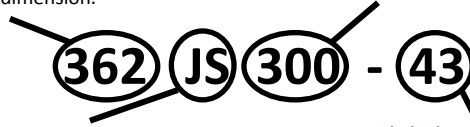
(Example: 3-5/8" = 3.625" = **362** x 1/100 inches)

All member depths are taken in 1/100 inches. For all "T" sections member depth is the inside to inside dimension.

Flange Width:

(Example: 1-1/4" = 1.25" = **125** x 1/100 inches)

All flange widths are taken in 1/100 inches.



Style:

(Example: Jamb or Joist Section = J)

Relevant alpha characters utilized by the designation system are:

J = Jamb or Joist Sections

H = Header Sections

Material Thickness:

(Example: 0.018 in. = **18** mils; 1 mil = 1/100 in.)

Material thickness is the minimum base metal thickness in mils. Minimum base metal thickness represents 95% of the design thickness.

Steel Thickness

| Mils | Gauge | Thickness (in) | |
|------|-------|----------------|----------------------|
| | | Design | Minimum ¹ |
| 43 | 18 | 0.0451 | 0.0428 |
| 54 | 16 | 0.0566 | 0.0538 |
| 68 | 14 | 0.0713 | 0.0677 |
| 97 | 12 | 0.1017 | 0.0966 |

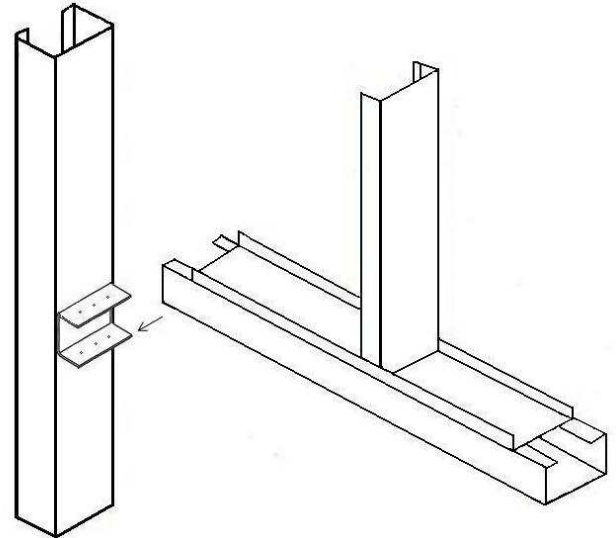
¹ Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site based on Section A3.4 of the 1996 AISI Specification.

Design Stiffening Lip Length

| Section | Flange Width | Design Stiffening Lip Length (in) |
|---------|--------------|-----------------------------------|
| JS300 | 3" | 1.000 |
| JS350 | 3.5" | 1.000 |
| HS300 | 3" | 1.000 |
| HS350 | 3.5" | 1.000 |

Jamb Stud and Header Punchouts

Jamb studs and headers can be manufactured with punchouts to enable plumbing and wiring installation. The lowest punchout is centered 12" from the bottom and 24" or 48" o.c thereafter, with the final opening 12" minimum from the top. Care should be taken during installation to orient all jambs and headers in the same top-to-bottom direction.



General Notes

- Physical properties and load tables have been calculated in conformance with the 2001 NASPEC for the Design of Cold-Formed Steel Structural Members, including the 2004 Supplement, and the IBC 2006, unless noted otherwise.
- Structural framing members have a protective coating conforming to ASTM C 955.
- Reference ASTM specification A 1003/A 1003 M table 1 for the universe of allowable coatings for light gauge steel framing.
- All delivered material must be kept dry, preferably by being stored inside a building under a roof. If it is necessary to store material outside, it must be stacked off the ground, properly supported on a level platform, and fully protected from the weather. Reference ASTM C 754 section 8 and ASTM C 1007 section 4.

LEED Green Building Credits

MR Credit 2: Construction Waste Management – MBA steel framing is 100% recyclable.

MR Credit 4: Recycled Content – MBA steel framing is formed from no less than 25.5% post-consumer and 6.8% pre-consumer recycled content.

MR Credit 5: Regional Materials – MBA has manufacturing facilities in multiple states.

Clip Properties

Clip Properties Table Notes

1. Screw strengths based on 8 #10-16 self-drilling tapping screws per ICC Evaluation Report ESR1976
2. Tabulated values assume 8 screws used in jamb to header connection
3. Up to 1/4 inch gap between end of header and jamb permitted using 1/4" Gap values
4. To determine the capacity of a connection, compare the appropriate header and jamb value and use the lower value
5. Allowable loads have not been increased for wind or seismic
6. For Lateral and Vertical Forces occurring at the same time, use the interaction equation $(f_1/F_1)^2 + (f_2/F_2)^2 < 1.07$
7. Table to be used by qualified engineers only

Clip Profile Dimensions

| Clip Section | Design Thickness (in) | Gauge | Leg Length (in) | Clip Length (in) | Web Width (in) | Yield (ksi) | Coating |
|--------------|-----------------------|-------|-----------------|------------------|----------------|-------------|---------|
| 306HC350-68 | 0.0713 | 14 | 2.0625 | 3.500 | 3.0625 | 50 | G90 |
| 356HC350-68 | 0.0713 | 14 | 2.0625 | 3.500 | 3.5625 | 50 | G90 |
| 306HC588-68 | 0.0713 | 14 | 2.0625 | 5.875 | 3.0625 | 50 | G90 |
| 356HC588-68 | 0.0713 | 14 | 2.0625 | 5.875 | 3.5625 | 50 | G90 |
| 306HC788-68 | 0.0713 | 14 | 2.0625 | 7.875 | 3.0625 | 50 | G90 |
| 356HC788-68 | 0.0713 | 14 | 2.0625 | 7.875 | 3.5625 | 50 | G90 |

Allowable loads (lbs.)

| Jamb Section | Header Section | Clip Section | Clip Strength | | | | |
|--------------|----------------|--------------|---------------------|--------|----------------------|----------|------|
| | | | Lateral Force (lbs) | | Vertical Force (lbs) | | |
| | | | Jamb | Header | Jamb | Header | |
| | | | | | No Gap | 1/4" Gap | |
| 362JS300-43 | 362HS300-43 | 306HC350-68 | 1052 | 838 | 1052 | 740 | 611 |
| 362JS300-54 | 362HS300-54 | 306HC350-68 | 1972 | 1570 | 1972 | 1008 | 786 |
| 362JS300-68 | 362HS300-68 | 306HC350-68 | 1972 | 1570 | 1972 | 1110 | 786 |
| 362JS300-97 | 362HS300-97 | 306HC350-68 | 1972 | 1570 | 1972 | 1224 | 786 |
| 362JS350-54 | 362HS350-54 | 356HC350-68 | 1972 | 1570 | 1972 | 1008 | 786 |
| 362JS350-68 | 362HS350-68 | 356HC350-68 | 1972 | 1570 | 1972 | 1110 | 786 |
| 362JS350-97 | 362HS350-97 | 356HC350-68 | 1972 | 1570 | 1972 | 1224 | 786 |
| 600JS300-43 | 600HS300-43 | 306HC588-68 | 1052 | 978 | 1052 | 1262 | 878 |
| 600JS300-54 | 600HS300-54 | 306HC588-68 | 1972 | 1832 | 1972 | 1440 | 1056 |
| 600JS300-68 | 600HS300-68 | 306HC588-68 | 1972 | 1832 | 1972 | 1542 | 1158 |
| 600JS300-97 | 600HS300-97 | 306HC588-68 | 1972 | 1832 | 1972 | 1756 | 1319 |
| 600JS350-54 | 600HS350-54 | 356HC588-68 | 1972 | 1832 | 1972 | 1440 | 1056 |
| 600JS350-68 | 600HS350-68 | 356HC588-68 | 1972 | 1832 | 1972 | 1542 | 1158 |
| 600JS350-97 | 600HS350-97 | 356HC588-68 | 1972 | 1832 | 1972 | 1756 | 1319 |
| 800JS300-43 | 800HS300-43 | 306HC788-68 | 1052 | 996 | 1052 | 1262 | 878 |
| 800JS300-54 | 800HS300-54 | 306HC788-68 | 1972 | 1867 | 1972 | 1440 | 1056 |
| 800JS300-68 | 800HS300-68 | 306HC788-68 | 1972 | 1867 | 1972 | 1542 | 1158 |
| 800JS300-97 | 800HS300-97 | 306HC788-68 | 1972 | 1867 | 1972 | 1756 | 1319 |
| 800JS350-54 | 800HS350-54 | 356HC788-68 | 1972 | 1867 | 1972 | 1440 | 1056 |
| 800JS350-68 | 800HS350-68 | 356HC788-68 | 1972 | 1867 | 1972 | 1542 | 1158 |
| 800JS350-97 | 800HS350-97 | 356HC788-68 | 1972 | 1867 | 1972 | 1756 | 1319 |

Interior Span Chart (3.0" Flange)

Interior Structural Composite Table Notes

1. Deflections are computed using 1.0 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 10psf , Wind Load = 5psf)

| Wall Height (ft) | Section | F _y (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------------------|---------------------|---------|---------|---------------------|---------|---------|---------------------|---------|---------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 7ft | 8ft | 9ft | 7ft | 8ft | 9ft | 7ft | 8ft | 9ft |
| 9 | 362HS300-43 | 33 | 11'-7" | 13'-8" | | 11'-7" | 13'-8" | | 11'-7" | 13'-8" | |
| | 362HS300-54 | 50 | 12'-10" | 15'-4" | | 12'-10" | 15'-4" | | 12'-10" | 15'-4" | |
| | 362HS300-68 | 50 | 13'-7" | 16'-2" | | 13'-7" | 16'-2" | | 13'-7" | 16'-2" | |
| | 362HS300-97 | 50 | 14'-9" | 17'-7" | | 14'-9" | 17'-7" | | 14'-9" | 17'-7" | |
| | 600HS300-43 | 33 | 12'-9" | 15'-2" | | 12'-9" | 15'-2" | | 12'-9" | 15'-2" | |
| | 600HS300-54 | 50 | 13'-6" | 16'-0" | | 13'-6" | 16'-0" | | 13'-6" | 16'-0" | |
| | 600HS300-68 | 50 | 14'-3" | 17'-0" | | 14'-3" | 17'-0" | | 14'-3" | 17'-0" | |
| | 600HS300-97 | 50 | 15'-5" | 18'-5" | | 15'-5" | 18'-5" | | 15'-5" | 18'-5" | |
| | 800HS300-43 | 33 | 13'-1" | 15'-7" | | 13'-1" | 15'-7" | | 13'-1" | 15'-7" | |
| | 800HS300-54 | 50 | 13'-10" | 16'-5" | | 13'-10" | 16'-5" | | 13'-10" | 16'-5" | |
| 11 | 362HS300-43 | 33 | 9'-0" | 9'-10" | 11'-0" | 9'-0" | 9'-10" | 11'-0" | 9'-0" | 9'-10" | 10'-2" |
| | 362HS300-54 | 50 | 10'-10" | 11'-8" | 12'-10" | 10'-10" | 11'-8" | 12'-10" | 10'-10" | 10'-11" | 10'-11" |
| | 362HS300-68 | 50 | 11'-5" | 12'-4" | 13'-7" | 11'-5" | 12'-4" | 13'-7" | 11'-5" | 11'-10" | 11'-10" |
| | 362HS300-97 | 50 | 12'-5" | 13'-4" | 14'-9" | 12'-5" | 13'-4" | 14'-9" | 12'-5" | 13'-3" | 13'-3" |
| | 600HS300-43 | 33 | 10'-0" | 11'-2" | 12'-9" | 10'-0" | 11'-2" | 12'-9" | 10'-0" | 11'-2" | 12'-9" |
| | 600HS300-54 | 50 | 11'-4" | 12'-2" | 13'-6" | 11'-4" | 12'-2" | 13'-6" | 11'-4" | 12'-2" | 13'-6" |
| | 600HS300-68 | 50 | 12'-0" | 12'-11" | 14'-3" | 12'-0" | 12'-11" | 14'-3" | 12'-0" | 12'-11" | 14'-3" |
| | 600HS300-97 | 50 | 13'-0" | 14'-0" | 15'-5" | 13'-0" | 14'-0" | 15'-5" | 13'-0" | 14'-0" | 15'-5" |
| | 800HS300-43 | 33 | 10'-6" | 11'-9" | 13'-1" | 10'-6" | 11'-9" | 13'-1" | 10'-6" | 11'-9" | 13'-1" |
| | 800HS300-54 | 50 | 11'-7" | 12'-6" | 13'-10" | 11'-7" | 12'-6" | 13'-10" | 11'-7" | 12'-6" | 13'-10" |
| 13 | 362HS300-43 | 33 | 7'-7" | 8'-1" | 8'-8" | 7'-7" | 8'-1" | 8'-8" | 7'-7" | 8'-1" | 8'-8" |
| | 362HS300-54 | 50 | 9'-9" | 10'-3" | 10'-10" | 9'-9" | 10'-3" | 10'-10" | 9'-9" | 10'-3" | 10'-4" |
| | 362HS300-68 | 50 | 10'-4" | 10'-10" | 11'-5" | 10'-4" | 10'-10" | 11'-5" | 10'-4" | 10'-10" | 11'-3" |
| | 362HS300-97 | 50 | 11'-2" | 11'-9" | 12'-5" | 11'-2" | 11'-9" | 12'-5" | 11'-2" | 11'-9" | 12'-5" |
| | 600HS300-43 | 33 | 8'-4" | 9'-0" | 9'-10" | 8'-4" | 9'-0" | 9'-10" | 8'-4" | 9'-0" | 9'-10" |
| | 600HS300-54 | 50 | 10'-3" | 10'-9" | 11'-4" | 10'-3" | 10'-9" | 11'-4" | 10'-3" | 10'-9" | 11'-4" |
| | 600HS300-68 | 50 | 10'-10" | 11'-4" | 12'-0" | 10'-10" | 11'-4" | 12'-0" | 10'-10" | 11'-4" | 12'-0" |
| | 600HS300-97 | 50 | 11'-9" | 12'-3" | 13'-0" | 11'-9" | 12'-3" | 13'-0" | 11'-9" | 12'-3" | 13'-0" |
| | 800HS300-43 | 33 | 8'-8" | 9'-5" | 10'-4" | 8'-8" | 9'-5" | 10'-4" | 8'-8" | 9'-5" | 10'-4" |
| | 800HS300-54 | 50 | 10'-6" | 11'-0" | 11'-7" | 10'-6" | 11'-0" | 11'-7" | 10'-6" | 11'-0" | 11'-7" |
| 15 | 362HS300-43 | 33 | 6'-8" | 7'-0" | 7'-5" | 6'-8" | 7'-0" | 7'-5" | 6'-8" | 7'-0" | 7'-5" |
| | 362HS300-54 | 50 | 8'-10" | 9'-3" | 9'-9" | 8'-10" | 9'-3" | 9'-9" | 8'-10" | 9'-3" | 9'-9" |
| | 362HS300-68 | 50 | 9'-6" | 9'-11" | 10'-4" | 9'-6" | 9'-11" | 10'-4" | 9'-6" | 9'-11" | 10'-4" |
| | 362HS300-97 | 50 | 10'-5" | 10'-9" | 11'-2" | 10'-5" | 10'-9" | 11'-2" | 10'-5" | 10'-9" | 11'-2" |
| | 600HS300-43 | 33 | 7'-4" | 7'-9" | 8'-3" | 7'-4" | 7'-9" | 8'-3" | 7'-4" | 7'-9" | 8'-3" |
| | 600HS300-54 | 50 | 9'-5" | 9'-10" | 10'-3" | 9'-5" | 9'-10" | 10'-3" | 9'-5" | 9'-10" | 10'-3" |
| | 600HS300-68 | 50 | 10'-1" | 10'-5" | 10'-10" | 10'-1" | 10'-5" | 10'-10" | 10'-1" | 10'-5" | 10'-10" |
| | 600HS300-97 | 50 | 10'-11" | 11'-3" | 11'-9" | 10'-11" | 11'-3" | 11'-9" | 10'-11" | 11'-3" | 11'-9" |
| | 800HS300-43 | 33 | 7'-7" | 8'-1" | 8'-7" | 7'-7" | 8'-1" | 8'-7" | 7'-7" | 8'-1" | 8'-7" |
| | 800HS300-54 | 50 | 9'-8" | 10'-1" | 10'-6" | 9'-8" | 10'-1" | 10'-6" | 9'-8" | 10'-1" | 10'-6" |
| 800HS300-68 | 50 | 10'-4" | 10'-8" | 11'-1" | 10'-4" | 10'-8" | 11'-1" | 10'-4" | 10'-8" | 11'-1" | |
| 800HS300-97 | 50 | 11'-2" | 11'-7" | 12'-0" | 11'-2" | 11'-7" | 12'-0" | 11'-2" | 11'-7" | 12'-0" | |

Interior Span Chart (3.5" Flange)

Interior Structural Composite Table Notes

1. Deflections are computed using 1.0 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 10psf , Wind Load = 5psf)

| Wall Height (ft) | Section | Fy (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------|---------------------|---------|---------|---------------------|---------|---------|---------------------|---------|---------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 7ft | 8ft | 9ft | 7ft | 8ft | 9ft | 7ft | 8ft | 9ft |
| 9 | 362HS350-54 | 50 | 14'-1" | 16'-4" | | 14'-1" | 16'-4" | | 14'-1" | 16'-4" | |
| | 362HS350-68 | 50 | 14'-11" | 17'-9" | | 14'-11" | 17'-9" | | 14'-11" | 17'-9" | |
| | 362HS350-97 | 50 | 16'-2" | 19'-3" | | 16'-2" | 19'-3" | | 16'-2" | 19'-3" | |
| | 600HS350-54 | 50 | 14'-9" | 17'-7" | | 14'-9" | 17'-7" | | 14'-9" | 17'-7" | |
| | 600HS350-68 | 50 | 15'-8" | 18'-7" | | 15'-8" | 18'-7" | | 15'-8" | 18'-7" | |
| | 600HS350-97 | 50 | 17'-0" | 20'-2" | | 17'-0" | 20'-2" | | 17'-0" | 20'-2" | |
| | 800HS350-54 | 50 | 15'-2" | 18'-0" | | 15'-2" | 18'-0" | | 15'-2" | 18'-0" | |
| | 800HS350-68 | 50 | 16'-0" | 19'-1" | | 16'-0" | 19'-1" | | 16'-0" | 19'-1" | |
| 800HS350-97 | 50 | 17'-5" | 20'-8" | | 17'-5" | 20'-8" | | 17'-5" | 20'-8" | | |
| 11 | 362HS350-54 | 50 | 11'-10" | 12'-9" | 14'-1" | 11'-10" | 12'-9" | 13'-4" | 11'-3" | 11'-3" | 11'-3" |
| | 362HS350-68 | 50 | 12'-7" | 13'-6" | 14'-11" | 12'-7" | 13'-6" | 14'-7" | 12'-4" | 12'-4" | 12'-4" |
| | 362HS350-97 | 50 | 13'-7" | 14'-7" | 16'-2" | 13'-7" | 14'-7" | 16'-2" | 13'-7" | 13'-9" | 13'-9" |
| | 600HS350-54 | 50 | 12'-5" | 13'-4" | 14'-9" | 12'-5" | 13'-4" | 14'-9" | 12'-5" | 13'-4" | 14'-9" |
| | 600HS350-68 | 50 | 13'-2" | 14'-1" | 15'-8" | 13'-2" | 14'-1" | 15'-8" | 13'-2" | 14'-1" | 15'-8" |
| | 600HS350-97 | 50 | 14'-3" | 15'-4" | 17'-0" | 14'-3" | 15'-4" | 17'-0" | 14'-3" | 15'-4" | 17'-0" |
| | 800HS350-54 | 50 | 12'-9" | 13'-8" | 15'-2" | 12'-9" | 13'-8" | 15'-2" | 12'-9" | 13'-8" | 15'-2" |
| | 800HS350-68 | 50 | 13'-6" | 14'-6" | 16'-0" | 13'-6" | 14'-6" | 16'-0" | 13'-6" | 14'-6" | 16'-0" |
| 800HS350-97 | 50 | 14'-7" | 15'-9" | 17'-5" | 14'-7" | 15'-9" | 17'-5" | 14'-7" | 15'-9" | 17'-5" | |
| 13 | 362HS350-54 | 50 | 10'-8" | 11'-2" | 11'-10" | 10'-8" | 11'-2" | 11'-10" | 10'-8" | 10'-8" | 10'-8" |
| | 362HS350-68 | 50 | 11'-4" | 11'-10" | 12'-7" | 11'-4" | 11'-10" | 12'-7" | 11'-4" | 11'-8" | 11'-8" |
| | 362HS350-97 | 50 | 12'-3" | 12'-10" | 13'-7" | 12'-3" | 12'-10" | 13'-7" | 12'-3" | 12'-10" | 13'-0" |
| | 600HS350-54 | 50 | 11'-3" | 11'-9" | 12'-5" | 11'-3" | 11'-9" | 12'-5" | 11'-3" | 11'-9" | 12'-5" |
| | 600HS350-68 | 50 | 11'-10" | 12'-5" | 13'-2" | 11'-10" | 12'-5" | 13'-2" | 11'-10" | 12'-5" | 13'-2" |
| | 600HS350-97 | 50 | 12'-11" | 13'-6" | 14'-3" | 12'-11" | 13'-6" | 14'-3" | 12'-11" | 13'-6" | 14'-3" |
| | 800HS350-54 | 50 | 11'-6" | 12'-0" | 12'-9" | 11'-6" | 12'-0" | 12'-9" | 11'-6" | 12'-0" | 12'-9" |
| | 800HS350-68 | 50 | 12'-2" | 12'-9" | 13'-6" | 12'-2" | 12'-9" | 13'-6" | 12'-2" | 12'-9" | 13'-6" |
| 800HS350-97 | 50 | 13'-2" | 13'-10" | 14'-7" | 13'-2" | 13'-10" | 14'-7" | 13'-2" | 13'-10" | 14'-7" | |
| 15 | 362HS350-54 | 50 | 9'-11" | 10'-4" | 10'-8" | 9'-11" | 10'-4" | 10'-8" | 9'-11" | 10'-2" | 10'-2" |
| | 362HS350-68 | 50 | 10'-6" | 10'-11" | 11'-4" | 10'-6" | 10'-11" | 11'-4" | 10'-6" | 10'-11" | 11'-1" |
| | 362HS350-97 | 50 | 11'-5" | 11'-10" | 12'-3" | 11'-5" | 11'-10" | 12'-3" | 11'-5" | 11'-10" | 12'-3" |
| | 600HS350-54 | 50 | 10'-5" | 10'-9" | 11'-3" | 10'-5" | 10'-9" | 11'-3" | 10'-5" | 10'-9" | 11'-3" |
| | 600HS350-68 | 50 | 11'-0" | 11'-5" | 11'-10" | 11'-0" | 11'-5" | 11'-10" | 11'-0" | 11'-5" | 11'-10" |
| | 600HS350-97 | 50 | 12'-0" | 12'-5" | 12'-11" | 12'-0" | 12'-5" | 12'-11" | 12'-0" | 12'-5" | 12'-11" |
| | 800HS350-54 | 50 | 10'-8" | 11'-1" | 11'-6" | 10'-8" | 11'-1" | 11'-6" | 10'-8" | 11'-1" | 11'-6" |
| | 800HS350-68 | 50 | 11'-4" | 11'-9" | 12'-2" | 11'-4" | 11'-9" | 12'-2" | 11'-4" | 11'-9" | 12'-2" |
| 800HS350-97 | 50 | 12'-3" | 12'-8" | 13'-2" | 12'-3" | 12'-8" | 13'-2" | 12'-3" | 12'-8" | 13'-2" | |

Exterior Span Chart (3.0" Flange)

Exterior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 12psf , Wind Load = 20psf)

| Wall Height (ft) | Section | Fy (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------|---------------------|---------|---------|---------------------|--------|---------|---------------------|---------|--------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft |
| 9 | 362HS300-43 | 33 | 8'-0" | | | 8'-0" | | | 8'-0" | | |
| | 362HS300-54 | 50 | 11'-0" | | | 11'-0" | | | 11'-0" | | |
| | 362HS300-68 | 50 | 12'-3" | | | 12'-3" | | | 12'-3" | | |
| | 362HS300-97 | 50 | 13'-7" | | | 13'-7" | | | 13'-7" | | |
| | 600HS300-43 | 33 | 10'-5" | | | 10'-5" | | | 10'-5" | | |
| | 600HS300-54 | 50 | 14'-5" | | | 14'-5" | | | 12'-2" | | |
| | 600HS300-68 | 50 | 16'-3" | | | 15'-8" | | | 13'-3" | | |
| | 600HS300-97 | 50 | 17'-7" | | | 17'-6" | | | 14'-9" | | |
| | 800HS300-43 | 33 | 11'-11" | | | 11'-11" | | | 11'-11" | | |
| | 800HS300-54 | 50 | 15'-9" | | | 15'-9" | | | 15'-3" | | |
| 800HS300-68 | 50 | 16'-7" | | | 16'-7" | | | 16'-6" | | | |
| 800HS300-97 | 50 | 18'-0" | | | 18'-0" | | | 18'-0" | | | |
| 11 | 362HS300-43 | 33 | 6'-6" | 7'-4" | | 6'-6" | 7'-4" | | 6'-6" | 7'-2" | |
| | 362HS300-54 | 50 | 9'-0" | 10'-1" | | 9'-0" | 9'-2" | | 7'-9" | 7'-9" | |
| | 362HS300-68 | 50 | 10'-5" | 11'-5" | | 10'-0" | 10'-0" | | 8'-5" | 8'-5" | |
| | 362HS300-97 | 50 | 12'-8" | 12'-9" | | 11'-1" | 11'-1" | | 9'-4" | 9'-4" | |
| | 600HS300-43 | 33 | 8'-1" | 9'-8" | | 8'-1" | 9'-8" | | 8'-1" | 9'-8" | |
| | 600HS300-54 | 50 | 11'-1" | 13'-5" | | 11'-1" | 13'-5" | | 11'-1" | 11'-4" | |
| | 600HS300-68 | 50 | 12'-4" | 15'-6" | | 12'-4" | 14'-8" | | 12'-4" | 12'-4" | |
| | 600HS300-97 | 50 | 13'-4" | 17'-7" | | 13'-4" | 16'-5" | | 13'-4" | 13'-10" | |
| | 800HS300-43 | 33 | 8'-10" | 11'-1" | | 8'-10" | 11'-1" | | 8'-10" | 11'-1" | |
| | 800HS300-54 | 50 | 11'-11" | 15'-4" | | 11'-11" | 15'-4" | | 11'-11" | 14'-3" | |
| 800HS300-68 | 50 | 12'-7" | 16'-7" | | 12'-7" | 16'-7" | | 12'-7" | 15'-5" | | |
| 800HS300-97 | 50 | 13'-8" | 18'-0" | | 13'-8" | 18'-0" | | 13'-8" | 17'-3" | | |
| 13 | 362HS300-43 | 33 | 5'-7" | 6'-1" | 6'-10" | 5'-7" | 6'-1" | 6'-10" | 5'-7" | 6'-1" | 6'-10" |
| | 362HS300-54 | 50 | 7'-9" | 8'-5" | 9'-5" | 7'-9" | 8'-5" | 8'-8" | 7'-4" | 7'-4" | 7'-4" |
| | 362HS300-68 | 50 | 9'-0" | 9'-10" | 10'-10" | 9'-0" | 9'-5" | 9'-5" | 7'-11" | 7'-11" | 7'-11" |
| | 362HS300-97 | 50 | 10'-11" | 11'-11" | 12'-1" | 10'-6" | 10'-6" | 10'-6" | 8'-10" | 8'-10" | 8'-10" |
| | 600HS300-43 | 33 | 6'-9" | 7'-8" | 9'-1" | 6'-9" | 7'-8" | 9'-1" | 6'-9" | 7'-8" | 9'-1" |
| | 600HS300-54 | 50 | 9'-4" | 10'-7" | 12'-6" | 9'-4" | 10'-7" | 12'-6" | 9'-4" | 10'-7" | 10'-9" |
| | 600HS300-68 | 50 | 10'-10" | 12'-3" | 14'-6" | 10'-10" | 12'-3" | 13'-10" | 10'-10" | 11'-8" | 11'-8" |
| | 600HS300-97 | 50 | 11'-9" | 13'-4" | 17'-7" | 11'-9" | 13'-4" | 15'-6" | 11'-9" | 13'-1" | 13'-1" |
| | 800HS300-43 | 33 | 7'-4" | 8'-6" | 10'-5" | 7'-4" | 8'-6" | 10'-5" | 7'-4" | 8'-6" | 10'-5" |
| | 800HS300-54 | 50 | 10'-2" | 11'-9" | 14'-6" | 10'-2" | 11'-9" | 14'-6" | 10'-2" | 11'-9" | 13'-5" |
| 800HS300-68 | 50 | 11'-1" | 12'-7" | 16'-7" | 11'-1" | 12'-7" | 16'-7" | 11'-1" | 12'-7" | 14'-7" | |
| 800HS300-97 | 50 | 12'-0" | 13'-8" | 18'-0" | 12'-0" | 13'-8" | 18'-0" | 12'-0" | 13'-8" | 16'-4" | |
| 15 | 362HS300-43 | 33 | 5'-0" | 5'-4" | 5'-10" | 5'-0" | 5'-4" | 5'-10" | 5'-0" | 5'-4" | 5'-10" |
| | 362HS300-54 | 50 | 6'-11" | 7'-5" | 8'-0" | 6'-11" | 7'-5" | 8'-0" | 6'-11" | 7'-0" | 7'-0" |
| | 362HS300-68 | 50 | 8'-0" | 8'-7" | 9'-4" | 8'-0" | 8'-7" | 9'-0" | 7'-7" | 7'-7" | 7'-7" |
| | 362HS300-97 | 50 | 9'-8" | 10'-5" | 11'-4" | 9'-8" | 10'-0" | 10'-0" | 8'-5" | 8'-5" | 8'-5" |
| | 600HS300-43 | 33 | 6'-0" | 6'-7" | 7'-4" | 6'-0" | 6'-7" | 7'-4" | 6'-0" | 6'-7" | 7'-4" |
| | 600HS300-54 | 50 | 8'-3" | 9'-1" | 10'-2" | 8'-3" | 9'-1" | 10'-2" | 8'-3" | 9'-1" | 10'-2" |
| | 600HS300-68 | 50 | 9'-6" | 10'-6" | 11'-9" | 9'-6" | 10'-6" | 11'-9" | 9'-6" | 10'-6" | 11'-2" |
| | 600HS300-97 | 50 | 10'-9" | 11'-9" | 13'-4" | 10'-9" | 11'-9" | 13'-4" | 10'-9" | 11'-9" | 12'-5" |
| | 800HS300-43 | 33 | 6'-5" | 7'-2" | 8'-2" | 6'-5" | 7'-2" | 8'-2" | 6'-5" | 7'-2" | 8'-2" |
| | 800HS300-54 | 50 | 8'-11" | 9'-11" | 11'-4" | 8'-11" | 9'-11" | 11'-4" | 8'-11" | 9'-11" | 11'-4" |
| 800HS300-68 | 50 | 10'-2" | 11'-1" | 12'-7" | 10'-2" | 11'-1" | 12'-7" | 10'-2" | 11'-1" | 12'-7" | |
| 800HS300-97 | 50 | 11'-1" | 12'-0" | 13'-8" | 11'-1" | 12'-0" | 13'-8" | 11'-1" | 12'-0" | 13'-8" | |

Exterior Span Chart (3.5" Flange)

Exterior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 12psf , Wind Load = 20psf)

| Wall Height (ft) | Section | Fy (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------|---------------------|---------|---------|---------------------|---------|---------|---------------------|---------|---------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft |
| 9 | 362HS350-54 | 50 | 11'-6" | | | 11'-6" | | | 11'-6" | | |
| | 362HS350-68 | 50 | 12'-8" | | | 12'-8" | | | 12'-8" | | |
| | 362HS350-97 | 50 | 14'-2" | | | 14'-2" | | | 14'-2" | | |
| | 600HS350-54 | 50 | 15'-2" | | | 14'-10" | | | 12'-6" | | |
| | 600HS350-68 | 50 | 17'-5" | | | 16'-2" | | | 13'-8" | | |
| | 600HS350-97 | 50 | 19'-3" | | | 18'-2" | | | 15'-4" | | |
| | 800HS350-54 | 50 | 17'-2" | | | 17'-2" | | | 15'-7" | | |
| | 800HS350-68 | 50 | 18'-3" | | | 18'-3" | | | 17'-0" | | |
| 800HS350-97 | 50 | 19'-9" | | | 19'-9" | | | 19'-1" | | | |
| 11 | 362HS350-54 | 50 | 9'-5" | 10'-6" | | 9'-5" | 9'-5" | | 8'-0" | 8'-0" | |
| | 362HS350-68 | 50 | 10'-11" | 11'-10" | | 10'-4" | 10'-4" | | 8'-9" | 8'-9" | |
| | 362HS350-97 | 50 | 13'-3" | 13'-3" | | 11'-7" | 11'-7" | | 9'-9" | 9'-9" | |
| | 600HS350-54 | 50 | 11'-10" | 14'-0" | | 11'-10" | 13'-10" | | 11'-8" | 11'-8" | |
| | 600HS350-68 | 50 | 13'-6" | 16'-1" | | 13'-6" | 15'-2" | | 12'-9" | 12'-9" | |
| | 600HS350-97 | 50 | 14'-8" | 19'-3" | | 14'-8" | 17'-0" | | 14'-4" | 14'-4" | |
| | 800HS350-54 | 50 | 13'-1" | 16'-0" | | 13'-1" | 16'-0" | | 13'-1" | 14'-7" | |
| | 800HS350-68 | 50 | 13'-10" | 18'-3" | | 13'-10" | 18'-3" | | 13'-10" | 15'-11" | |
| 800HS350-97 | 50 | 15'-0" | 19'-9" | | 15'-0" | 19'-9" | | 15'-0" | 17'-10" | | |
| 13 | 362HS350-54 | 50 | 8'-3" | 8'-11" | 9'-9" | 8'-3" | 8'-11" | 8'-11" | 7'-6" | 7'-6" | 7'-6" |
| | 362HS350-68 | 50 | 9'-6" | 10'-3" | 11'-3" | 9'-6" | 9'-10" | 9'-10" | 8'-3" | 8'-3" | 8'-3" |
| | 362HS350-97 | 50 | 11'-6" | 12'-5" | 12'-7" | 10'-11" | 10'-11" | 10'-11" | 9'-3" | 9'-3" | 9'-3" |
| | 600HS350-54 | 50 | 10'-1" | 11'-3" | 13'-1" | 10'-1" | 11'-3" | 13'-1" | 10'-1" | 11'-0" | 11'-0" |
| | 600HS350-68 | 50 | 11'-7" | 13'-0" | 15'-0" | 11'-7" | 13'-0" | 14'-4" | 11'-7" | 12'-1" | 12'-1" |
| | 600HS350-97 | 50 | 12'-11" | 14'-8" | 18'-2" | 12'-11" | 14'-8" | 16'-1" | 12'-11" | 13'-7" | 13'-7" |
| | 800HS350-54 | 50 | 11'-0" | 12'-7" | 15'-0" | 11'-0" | 12'-7" | 15'-0" | 11'-0" | 12'-7" | 13'-9" |
| | 800HS350-68 | 50 | 12'-2" | 13'-10" | 17'-7" | 12'-2" | 13'-10" | 17'-7" | 12'-2" | 13'-10" | 15'-1" |
| 800HS350-97 | 50 | 13'-2" | 15'-0" | 19'-9" | 13'-2" | 15'-0" | 19'-9" | 13'-2" | 15'-0" | 16'-11" | |
| 15 | 362HS350-54 | 50 | 7'-4" | 7'-10" | 8'-5" | 7'-4" | 7'-10" | 8'-5" | 7'-2" | 7'-2" | 7'-2" |
| | 362HS350-68 | 50 | 8'-6" | 9'-1" | 9'-9" | 8'-6" | 9'-1" | 9'-4" | 7'-10" | 7'-10" | 7'-10" |
| | 362HS350-97 | 50 | 10'-3" | 11'-0" | 11'-10" | 10'-3" | 10'-5" | 10'-5" | 8'-10" | 8'-10" | 8'-10" |
| | 600HS350-54 | 50 | 8'-11" | 9'-8" | 10'-9" | 8'-11" | 9'-8" | 10'-9" | 8'-11" | 9'-8" | 10'-6" |
| | 600HS350-68 | 50 | 10'-3" | 11'-2" | 12'-5" | 10'-3" | 11'-2" | 12'-5" | 10'-3" | 11'-2" | 11'-6" |
| | 600HS350-97 | 50 | 11'-10" | 12'-11" | 14'-8" | 11'-10" | 12'-11" | 14'-8" | 11'-10" | 12'-11" | 12'-11" |
| | 800HS350-54 | 50 | 9'-8" | 10'-8" | 12'-1" | 9'-8" | 10'-8" | 12'-1" | 9'-8" | 10'-8" | 12'-1" |
| | 800HS350-68 | 50 | 11'-2" | 12'-2" | 13'-10" | 11'-2" | 12'-2" | 13'-10" | 11'-2" | 12'-2" | 13'-10" |
| 800HS350-97 | 50 | 12'-2" | 13'-2" | 15'-0" | 12'-2" | 13'-2" | 15'-0" | 12'-2" | 13'-2" | 15'-0" | |

Exterior Span Chart (3.0" Flange)

Exterior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 12psf , Wind Load = 25psf)

| Wall Height (ft) | Section | Fy (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------|---------------------|---------|---------|---------------------|--------|---------|---------------------|---------|---------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft |
| 9 | 362HS300-43 | 33 | 7'-3" | | | 7'-3" | | | 7'-3" | | |
| | 362HS300-54 | 50 | 10'-0" | | | 10'-0" | | | 10'-0" | | |
| | 362HS300-68 | 50 | 11'-4" | | | 11'-4" | | | 11'-4" | | |
| | 362HS300-97 | 50 | 12'-8" | | | 12'-8" | | | 12'-8" | | |
| | 600HS300-43 | 33 | 9'-7" | | | 9'-7" | | | 9'-7" | | |
| | 600HS300-54 | 50 | 13'-3" | | | 13'-3" | | | 11'-3" | | |
| | 600HS300-68 | 50 | 15'-4" | | | 14'-7" | | | 12'-3" | | |
| | 600HS300-97 | 50 | 17'-7" | | | 16'-3" | | | 13'-9" | | |
| | 800HS300-43 | 33 | 11'-0" | | | 11'-0" | | | 11'-0" | | |
| | 800HS300-54 | 50 | 15'-3" | | | 15'-3" | | | 14'-1" | | |
| 800HS300-68 | 50 | 16'-7" | | | 16'-7" | | | 15'-4" | | | |
| 800HS300-97 | 50 | 18'-0" | | | 18'-0" | | | 17'-2" | | | |
| 11 | 362HS300-43 | 33 | 6'-0" | 6'-8" | | 6'-0" | 6'-8" | | 6'-0" | 6'-8" | |
| | 362HS300-54 | 50 | 8'-3" | 9'-2" | | 8'-3" | 8'-6" | | 7'-2" | 7'-2" | |
| | 362HS300-68 | 50 | 9'-7" | 10'-7" | | 9'-3" | 9'-3" | | 7'-10" | 7'-10" | |
| | 362HS300-97 | 50 | 11'-9" | 11'-10" | | 10'-4" | 10'-4" | | 8'-8" | 8'-8" | |
| | 600HS300-43 | 33 | 7'-7" | 8'-10" | | 7'-7" | 8'-10" | | 7'-7" | 8'-10" | |
| | 600HS300-54 | 50 | 10'-5" | 12'-3" | | 10'-5" | 12'-3" | | 10'-5" | 10'-7" | |
| | 600HS300-68 | 50 | 12'-1" | 14'-2" | | 12'-1" | 13'-7" | | 11'-6" | 11'-6" | |
| | 600HS300-97 | 50 | 13'-4" | 17'-4" | | 13'-4" | 15'-3" | | 12'-10" | 12'-10" | |
| | 800HS300-43 | 33 | 8'-5" | 10'-2" | | 8'-5" | 10'-2" | | 8'-5" | 10'-2" | |
| | 800HS300-54 | 50 | 11'-7" | 14'-2" | | 11'-7" | 14'-2" | | 11'-7" | 13'-2" | |
| 800HS300-68 | 50 | 12'-7" | 16'-7" | | 12'-7" | 16'-7" | | 12'-7" | 14'-4" | | |
| 800HS300-97 | 50 | 13'-8" | 18'-0" | | 13'-8" | 18'-0" | | 13'-8" | 16'-1" | | |
| 13 | 362HS300-43 | 33 | 5'-3" | 5'-8" | 6'-2" | 5'-3" | 5'-8" | 6'-2" | 5'-3" | 5'-8" | 6'-2" |
| | 362HS300-54 | 50 | 7'-3" | 7'-9" | 8'-6" | 7'-3" | 7'-9" | 8'-1" | 6'-9" | 6'-9" | 6'-9" |
| | 362HS300-68 | 50 | 8'-4" | 9'-0" | 9'-11" | 8'-4" | 8'-9" | 8'-9" | 7'-5" | 7'-5" | 7'-5" |
| | 362HS300-97 | 50 | 10'-2" | 11'-0" | 11'-2" | 9'-9" | 9'-9" | 9'-9" | 8'-3" | 8'-3" | 8'-3" |
| | 600HS300-43 | 33 | 6'-5" | 7'-2" | 8'-3" | 6'-5" | 7'-2" | 8'-3" | 6'-5" | 7'-2" | 8'-3" |
| | 600HS300-54 | 50 | 8'-11" | 9'-11" | 11'-5" | 8'-11" | 9'-11" | 11'-5" | 8'-11" | 9'-11" | 10'-0" |
| | 600HS300-68 | 50 | 10'-3" | 11'-6" | 13'-3" | 10'-3" | 11'-6" | 12'-11" | 10'-3" | 10'-10" | 10'-10" |
| | 600HS300-97 | 50 | 11'-9" | 13'-4" | 16'-2" | 11'-9" | 13'-4" | 14'-5" | 11'-9" | 12'-2" | 12'-2" |
| | 800HS300-43 | 33 | 7'-0" | 8'-0" | 9'-7"* | 7'-0" | 8'-0" | 9'-7"* | 7'-0" | 8'-0" | 9'-7"* |
| | 800HS300-54 | 50 | 9'-9" | 11'-1" | 13'-3" | 9'-9" | 11'-1" | 13'-3" | 9'-9" | 11'-1" | 12'-6" |
| 800HS300-68 | 50 | 11'-1" | 12'-7" | 15'-6" | 11'-1" | 12'-7" | 15'-6" | 11'-1" | 12'-7" | 13'-7" | |
| 800HS300-97 | 50 | 12'-0" | 13'-8" | 18'-0" | 12'-0" | 13'-8" | 18'-0" | 12'-0" | 13'-8" | 15'-2" | |
| 15 | 362HS300-43 | 33 | 4'-8" | 5'-0" | 5'-4" | 4'-8" | 5'-0" | 5'-4" | 4'-8" | 5'-0" | 5'-4" |
| | 362HS300-54 | 50 | 6'-6" | 6'-11" | 7'-4" | 6'-6" | 6'-11" | 7'-4" | 6'-6" | 6'-6" | 6'-6" |
| | 362HS300-68 | 50 | 7'-6" | 8'-0" | 8'-7" | 7'-6" | 8'-0" | 8'-4" | 7'-0" | 7'-0" | 7'-0" |
| | 362HS300-97 | 50 | 9'-1" | 9'-9" | 10'-5" | 9'-1" | 9'-4" | 9'-4" | 7'-10" | 7'-10" | 7'-10" |
| | 600HS300-43 | 33 | 5'-8" | 6'-2" | 6'-10" | 5'-8" | 6'-2" | 6'-10" | 5'-8" | 6'-2" | 6'-10" |
| | 600HS300-54 | 50 | 7'-10" | 8'-7" | 9'-6" | 7'-10" | 8'-7" | 9'-6" | 7'-10" | 8'-7" | 9'-6" |
| | 600HS300-68 | 50 | 9'-1" | 9'-11" | 10'-11" | 9'-1" | 9'-11" | 10'-11" | 9'-1" | 9'-11" | 10'-4" |
| | 600HS300-97 | 50 | 10'-9" | 11'-9" | 13'-4" | 10'-9" | 11'-9" | 13'-4" | 10'-9" | 11'-7" | 11'-7" |
| | 800HS300-43 | 33 | 6'-2" | 6'-10" | 7'-8" | 6'-2" | 6'-10" | 7'-8" | 6'-2" | 6'-10" | 7'-8" |
| | 800HS300-54 | 50 | 8'-7" | 9'-5" | 10'-8" | 8'-7" | 9'-5" | 10'-8" | 8'-7" | 9'-5" | 10'-8" |
| 800HS300-68 | 50 | 9'-11" | 11'-0" | 12'-5" | 9'-11" | 11'-0" | 12'-5" | 9'-11" | 11'-0" | 12'-5" | |
| 800HS300-97 | 50 | 11'-1" | 12'-0" | 13'-8" | 11'-1" | 12'-0" | 13'-8" | 11'-1" | 12'-0" | 13'-8" | |

Exterior Span Chart (3.5" Flange)

Exterior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 12psf , Wind Load = 25psf)

| Wall Height (ft) | Section | Fy (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------|---------------------|--------|---------|---------------------|--------|---------|---------------------|---------|---------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft |
| 9 | 362HS350-54 | 50 | 10'-5" | | | 10'-5" | | | 10'-5" | | |
| | 362HS350-68 | 50 | 11'-9" | | | 11'-9" | | | 11'-9" | | |
| | 362HS350-97 | 50 | 13'-2" | | | 13'-2" | | | 13'-2" | | |
| | 600HS350-54 | 50 | 13'-10" | | | 13'-9" | | | 11'-7" | | |
| | 600HS350-68 | 50 | 15'-11" | | | 15'-0" | | | 12'-8" | | |
| | 600HS350-97 | 50 | 19'-3" | | | 16'-10" | | | 14'-3" | | |
| | 800HS350-54 | 50 | 15'-11" | | | 15'-11" | | | 14'-6" | | |
| | 800HS350-68 | 50 | 18'-3" | | | 18'-3" | | | 15'-9" | | |
| 800HS350-97 | 50 | 19'-9" | | | 19'-9" | | | 17'-9" | | | |
| 11 | 362HS350-54 | 50 | 8'-8" | 9'-6" | | 8'-8" | 8'-9" | | 7'-5" | 7'-5" | |
| | 362HS350-68 | 50 | 10'-1" | 11'-0" | | 9'-7" | 9'-7" | | 8'-1" | 8'-1" | |
| | 362HS350-97 | 50 | 12'-2" | 12'-4" | | 10'-9" | 10'-9" | | 9'-1" | 9'-1" | |
| | 600HS350-54 | 50 | 11'-1" | 12'-9" | | 11'-1" | 12'-9" | | 10'-10" | 10'-10" | |
| | 600HS350-68 | 50 | 12'-9" | 14'-8" | | 12'-9" | 14'-1" | | 11'-10" | 11'-10" | |
| | 600HS350-97 | 50 | 14'-8" | 17'-9" | | 14'-8" | 15'-9" | | 13'-4" | 13'-4" | |
| | 800HS350-54 | 50 | 12'-4" | 14'-8" | | 12'-4" | 14'-8" | | 12'-4" | 13'-6" | |
| | 800HS350-68 | 50 | 13'-10" | 17'-2" | | 13'-10" | 17'-2" | | 13'-10" | 14'-9" | |
| 800HS350-97 | 50 | 15'-0" | 19'-9" | | 15'-0" | 19'-8" | | 15'-0" | 16'-7" | | |
| 13 | 362HS350-54 | 50 | 7'-8" | 8'-2" | 8'-10" | 7'-8" | 8'-2" | 8'-4" | 7'-0" | 7'-0" | 7'-0" |
| | 362HS350-68 | 50 | 8'-10" | 9'-5" | 10'-2" | 8'-10" | 9'-1" | 9'-1" | 7'-8" | 7'-8" | 7'-8" |
| | 362HS350-97 | 50 | 10'-8" | 11'-5" | 11'-8" | 10'-2" | 10'-2" | 10'-2" | 8'-7" | 8'-7" | 8'-7" |
| | 600HS350-54 | 50 | 9'-6" | 10'-6" | 11'-10" | 9'-6" | 10'-6" | 11'-10" | 9'-6" | 10'-3" | 10'-3" |
| | 600HS350-68 | 50 | 10'-11" | 12'-1" | 13'-8" | 10'-11" | 12'-1" | 13'-4" | 10'-11" | 11'-2" | 11'-2" |
| | 600HS350-97 | 50 | 12'-11" | 14'-7" | 16'-6" | 12'-11" | 14'-7" | 14'-11" | 12'-7" | 12'-7" | 12'-7" |
| | 800HS350-54 | 50 | 10'-6" | 11'-9" | 13'-9" | 10'-6" | 11'-9" | 13'-9" | 10'-6" | 11'-9" | 12'-10" |
| | 800HS350-68 | 50 | 12'-2" | 13'-9" | 16'-1" | 12'-2" | 13'-9" | 16'-1" | 12'-2" | 13'-9" | 14'-0" |
| 800HS350-97 | 50 | 13'-2" | 15'-0" | 19'-5" | 13'-2" | 15'-0" | 18'-7" | 13'-2" | 15'-0" | 15'-8" | |
| 15 | 362HS350-54 | 50 | 6'-11" | 7'-3" | 7'-8" | 6'-11" | 7'-3" | 7'-8" | 6'-8" | 6'-8" | 6'-8" |
| | 362HS350-68 | 50 | 7'-11" | 8'-4" | 8'-11" | 7'-11" | 8'-4" | 8'-8" | 7'-4" | 7'-4" | 7'-4" |
| | 362HS350-97 | 50 | 9'-7" | 10'-2" | 10'-10" | 9'-7" | 9'-8" | 9'-8" | 8'-2" | 8'-2" | 8'-2" |
| | 600HS350-54 | 50 | 8'-5" | 9'-1" | 10'-0" | 8'-5" | 9'-1" | 10'-0" | 8'-5" | 9'-1" | 9'-9" |
| | 600HS350-68 | 50 | 9'-9" | 10'-6" | 11'-6" | 9'-9" | 10'-6" | 11'-6" | 9'-9" | 10'-6" | 10'-8" |
| | 600HS350-97 | 50 | 11'-8" | 12'-8" | 13'-10" | 11'-8" | 12'-8" | 13'-10" | 11'-8" | 12'-0" | 12'-0" |
| | 800HS350-54 | 50 | 9'-3" | 10'-1" | 11'-3" | 9'-3" | 10'-1" | 11'-3" | 9'-3" | 10'-1" | 11'-3" |
| | 800HS350-68 | 50 | 10'-9" | 11'-9" | 13'-1" | 10'-9" | 11'-9" | 13'-1" | 10'-9" | 11'-9" | 13'-1" |
| 800HS350-97 | 50 | 12'-2" | 13'-2" | 15'-0" | 12'-2" | 13'-2" | 15'-0" | 12'-2" | 13'-2" | 14'-11" | |

Exterior Span Chart (3.0" Flange)

Exterior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 12psf , Wind Load = 30psf)

| Wall Height (ft) | Section | Fy (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------|---------------------|---------|---------|---------------------|---------|---------|---------------------|---------|---------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft |
| 9 | 362HS300-43 | 33 | 6'-8" | | | 6'-8" | | | 6'-8" | | |
| | 362HS300-54 | 50 | 9'-3" | | | 9'-3" | | | 9'-3" | | |
| | 362HS300-68 | 50 | 10'-8" | | | 10'-8" | | | 10'-8" | | |
| | 362HS300-97 | 50 | 11'-11" | | | 11'-11" | | | 11'-11" | | |
| | 600HS300-43 | 33 | 8'-11" | | | 8'-11" | | | 8'-11" | | |
| | 600HS300-54 | 50 | 12'-4" | | | 12'-4" | | | 10'-7" | | |
| | 600HS300-68 | 50 | 14'-3" | | | 13'-8" | | | 11'-7" | | |
| | 600HS300-97 | 50 | 17'-5" | | | 15'-4" | | | 12'-11" | | |
| | 800HS300-43 | 33 | 10'-3" | | | 10'-3" | | | 10'-3" | | |
| | 800HS300-54 | 50 | 14'-3" | | | 14'-3" | | | 13'-3" | | |
| 800HS300-68 | 50 | 16'-7" | | | 16'-7" | | | 14'-5" | | | |
| 800HS300-97 | 50 | 18'-0" | | | 18'-0" | | | 16'-2" | | | |
| 11 | 362HS300-43 | 33 | 5'-7" | 6'-1" | | 5'-7" | 6'-1" | | 5'-7" | 6'-1" | |
| | 362HS300-54 | 50 | 7'-9" | 8'-5" | | 7'-9" | 8'-0" | | 6'-9" | 6'-9" | |
| | 362HS300-68 | 50 | 9'-0" | 9'-10" | | 8'-8" | 8'-8" | | 7'-4" | 7'-4" | |
| | 362HS300-97 | 50 | 10'-11" | 11'-1" | | 9'-9" | 9'-9" | | 8'-2" | 8'-2" | |
| | 600HS300-43 | 33 | 7'-2" | 8'-3" | | 7'-2" | 8'-3" | | 7'-2" | 8'-3" | |
| | 600HS300-54 | 50 | 9'-10" | 11'-4" | | 9'-10" | 11'-4" | | 9'-10" | 9'-11" | |
| | 600HS300-68 | 50 | 11'-5" | 13'-2" | | 11'-5" | 12'-10" | | 10'-10" | 10'-10" | |
| | 600HS300-97 | 50 | 13'-4" | 16'-1" | | 13'-4" | 14'-4" | | 12'-1" | 12'-1" | |
| | 800HS300-43 | 33 | 8'-0" | 9'-6" | | 8'-0" | 9'-6" | | 8'-0" | 9'-6" | |
| | 800HS300-54 | 50 | 11'-1" | 13'-2" | | 11'-1" | 13'-2" | | 11'-1" | 12'-5" | |
| 800HS300-68 | 50 | 12'-7" | 15'-5" | | 12'-7" | 15'-5" | | 12'-7" | 13'-6" | | |
| 800HS300-97 | 50 | 13'-8" | 18'-0" | | 13'-8" | 17'-11" | | 13'-8" | 15'-1" | | |
| 13 | 362HS300-43 | 33 | 4'-11" | 5'-3" | 5'-8" | 4'-11" | 5'-3" | 5'-8" | 4'-11" | 5'-3" | 5'-8" |
| | 362HS300-54 | 50 | 6'-9" | 7'-3" | 7'-10" | 6'-9" | 7'-3" | 7'-7" | 6'-5" | 6'-5" | 6'-5" |
| | 362HS300-68 | 50 | 7'-10" | 8'-5" | 9'-1" | 7'-10" | 8'-3" | 8'-3" | 6'-11" | 6'-11" | 6'-11" |
| | 362HS300-97 | 50 | 9'-7" | 10'-3" | 10'-6" | 9'-2" | 9'-2" | 9'-2" | 7'-9" | 7'-9" | 7'-9" |
| | 600HS300-43 | 33 | 6'-1" | 6'-9" | 7'-8" | 6'-1" | 6'-9" | 7'-8" | 6'-1" | 6'-9" | 7'-8" |
| | 600HS300-54 | 50 | 8'-6" | 9'-4" | 10'-7" | 8'-6" | 9'-4" | 10'-7" | 8'-6" | 9'-4" | 9'-5" |
| | 600HS300-68 | 50 | 9'-9" | 10'-10" | 12'-3" | 9'-9" | 10'-10" | 12'-1" | 9'-9" | 10'-3" | 10'-3" |
| | 600HS300-97 | 50 | 11'-9" | 13'-2" | 15'-0" | 11'-9" | 13'-2" | 13'-6" | 11'-5" | 11'-5" | 11'-5" |
| | 800HS300-43 | 33 | 6'-9" | 7'-7" | 8'-11" | 6'-9" | 7'-7" | 8'-11" | 6'-9" | 7'-7" | 8'-11" |
| | 800HS300-54 | 50 | 9'-4" | 10'-6" | 12'-4" | 9'-4" | 10'-6" | 12'-4" | 9'-4" | 10'-6" | 11'-9" |
| 800HS300-68 | 50 | 10'-10" | 12'-3" | 14'-5" | 10'-10" | 12'-3" | 14'-5" | 10'-10" | 12'-3" | 12'-9" | |
| 800HS300-97 | 50 | 12'-0" | 13'-8" | 17'-7" | 12'-0" | 13'-8" | 16'-11" | 12'-0" | 13'-8" | 14'-3" | |
| 15 | 362HS300-43 | 33 | 4'-5" | 4'-8" | 4'-11" | 4'-5" | 4'-8" | 4'-11" | 4'-5" | 4'-8" | 4'-11" |
| | 362HS300-54 | 50 | 6'-1" | 6'-5" | 6'-10" | 6'-1" | 6'-5" | 6'-10" | 6'-1" | 6'-1" | 6'-1" |
| | 362HS300-68 | 50 | 7'-1" | 7'-6" | 7'-11" | 7'-1" | 7'-6" | 7'-10" | 6'-7" | 6'-7" | 6'-7" |
| | 362HS300-97 | 50 | 8'-7" | 9'-1" | 9'-9" | 8'-7" | 8'-9" | 8'-9" | 7'-4" | 7'-4" | 7'-4" |
| | 600HS300-43 | 33 | 5'-5" | 5'-11" | 6'-5" | 5'-5" | 5'-11" | 6'-5" | 5'-5" | 5'-11" | 6'-5" |
| | 600HS300-54 | 50 | 7'-6" | 8'-1" | 8'-11" | 7'-6" | 8'-1" | 8'-11" | 7'-6" | 8'-1" | 8'-11" |
| | 600HS300-68 | 50 | 8'-8" | 9'-5" | 10'-4" | 8'-8" | 9'-5" | 10'-4" | 8'-8" | 9'-5" | 9'-9" |
| | 600HS300-97 | 50 | 10'-6" | 11'-5" | 12'-6" | 10'-6" | 11'-5" | 12'-6" | 10'-6" | 10'-11" | 10'-11" |
| | 800HS300-43 | 33 | 5'-11" | 6'-6" | 7'-3" | 5'-11" | 6'-6" | 7'-3" | 5'-11" | 6'-6" | 7'-3" |
| | 800HS300-54 | 50 | 8'-3" | 9'-0" | 10'-1" | 8'-3" | 9'-0" | 10'-1" | 8'-3" | 9'-0" | 10'-1" |
| 800HS300-68 | 50 | 9'-7" | 10'-6" | 11'-9" | 9'-7" | 10'-6" | 11'-9" | 9'-7" | 10'-6" | 11'-9" | |
| 800HS300-97 | 50 | 11'-1" | 12'-0" | 13'-8" | 11'-1" | 12'-0" | 13'-8" | 11'-1" | 12'-0" | 13'-7" | |

Exterior Span Chart (3.5" Flange)

Exterior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up and a track fastened over the open end
3. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
4. Headers are assumed to be connected using the corresponding standard clip and fastener pattern
5. For deflection calculations, the effective moment of inertia, calculated at the maximum service load, was used
6. The calculated flexural strength of the header was based upon $L_b \leq L_u$
7. Header framing was calculated assuming a worse case condition of a sill height at ground
8. This table is not applicable for load bearing walls but is applicable for a curtain wall application
9. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
10. Tabled widths marked with an * (asterisk) require special engineering of the clip connection
11. The strength analysis included separate bending and shear checks
12. Unless connections are engineered separately, jambs must be the same or greater gauge and yield strength as the header
13. Opening width is also limited by jamb considerations. See jamb table for limits
14. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
15. Table to be used by qualified engineers only

Allowable header spans (Dead Load = 12psf , Wind Load = 30psf)

| Wall Height (ft) | Section | Fy (ksi) | L/240 | | | L/360 | | | L/600 | | |
|------------------|-------------|----------|---------------------|---------|---------|---------------------|---------|---------|---------------------|---------|---------|
| | | | Opening Height (ft) | | | Opening Height (ft) | | | Opening Height (ft) | | |
| | | | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft | 8ft | 10ft | 12ft |
| 9 | 362HS350-54 | 50 | 9'-7" | | | 9'-7" | | | 9'-7" | | |
| | 362HS350-68 | 50 | 11'-1" | | | 11'-1" | | | 11'-1" | | |
| | 362HS350-97 | 50 | 12'-5" | | | 12'-5" | | | 12'-5" | | |
| | 600HS350-54 | 50 | 12'-10" | | | 12'-10" | | | 10'-11" | | |
| | 600HS350-68 | 50 | 14'-9" | | | 14'-2" | | | 11'-11" | | |
| | 600HS350-97 | 50 | 17'-10" | | | 15'-10" | | | 13'-5" | | |
| | 800HS350-54 | 50 | 14'-10" | | | 14'-10" | | | 13'-7" | | |
| | 800HS350-68 | 50 | 17'-4" | | | 17'-4" | | | 14'-10" | | |
| 800HS350-97 | 50 | 19'-9" | | | 19'-9" | | | 16'-8" | | | |
| 11 | 362HS350-54 | 50 | 8'-1" | 8'-9" | | 8'-1" | 8'-3" | | 6'-11" | 6'-11" | |
| | 362HS350-68 | 50 | 9'-4" | 10'-1" | | 9'-0" | 9'-0" | | 7'-7" | 7'-7" | |
| | 362HS350-97 | 50 | 11'-4" | 11'-7" | | 10'-1" | 10'-1" | | 8'-6" | 8'-6" | |
| | 600HS350-54 | 50 | 10'-5" | 11'-9" | | 10'-5" | 11'-9" | | 10'-2" | 10'-2" | |
| | 600HS350-68 | 50 | 12'-0" | 13'-7" | | 12'-0" | 13'-3" | | 11'-2" | 11'-2" | |
| | 600HS350-97 | 50 | 14'-6" | 16'-5" | | 14'-6" | 14'-10" | | 12'-6" | 12'-6" | |
| | 800HS350-54 | 50 | 11'-9" | 13'-8" | | 11'-9" | 13'-8" | | 11'-9" | 12'-9" | |
| | 800HS350-68 | 50 | 13'-8" | 16'-0" | | 13'-8" | 16'-0" | | 13'-8" | 13'-11" | |
| 800HS350-97 | 50 | 15'-0" | 19'-3" | | 15'-0" | 18'-6" | | 15'-0" | 15'-7" | | |
| 13 | 362HS350-54 | 50 | 7'-2" | 7'-7" | 8'-1" | 7'-2" | 7'-7" | 7'-10" | 6'-7" | 6'-7" | 6'-7" |
| | 362HS350-68 | 50 | 8'-3" | 8'-9" | 9'-4" | 8'-3" | 8'-7" | 8'-7" | 7'-2" | 7'-2" | 7'-2" |
| | 362HS350-97 | 50 | 10'-0" | 10'-8" | 10'-11" | 9'-7" | 9'-7" | 9'-7" | 8'-1" | 8'-1" | 8'-1" |
| | 600HS350-54 | 50 | 9'-0" | 9'-10" | 11'-0" | 9'-0" | 9'-10" | 11'-0" | 9'-0" | 9'-8" | 9'-8" |
| | 600HS350-68 | 50 | 10'-4" | 11'-4" | 12'-7" | 10'-4" | 11'-4" | 12'-6" | 10'-4" | 10'-6" | 10'-6" |
| | 600HS350-97 | 50 | 12'-6" | 13'-8" | 15'-3" | 12'-6" | 13'-8" | 14'-0" | 11'-10" | 11'-10" | 11'-10" |
| | 800HS350-54 | 50 | 10'-0" | 11'-1" | 12'-9" | 10'-0" | 11'-1" | 12'-9" | 10'-0" | 11'-1" | 12'-0" |
| | 800HS350-68 | 50 | 11'-7" | 13'-0" | 14'-11" | 11'-7" | 13'-0" | 14'-11" | 11'-7" | 13'-0" | 13'-2" |
| 800HS350-97 | 50 | 13'-2" | 15'-0" | 18'-0" | 13'-2" | 15'-0" | 17'-6" | 13'-2" | 14'-9" | 14'-9" | |
| 15 | 362HS350-54 | 50 | 6'-6" | 6'-9" | 7'-2" | 6'-6" | 6'-9" | 7'-2" | 6'-3" | 6'-3" | 6'-3" |
| | 362HS350-68 | 50 | 7'-6" | 7'-10" | 8'-3" | 7'-6" | 7'-10" | 8'-2" | 6'-10" | 6'-10" | 6'-10" |
| | 362HS350-97 | 50 | 9'-1" | 9'-6" | 10'-0" | 9'-1" | 9'-1" | 9'-1" | 7'-8" | 7'-8" | 7'-8" |
| | 600HS350-54 | 50 | 8'-1" | 8'-7" | 9'-4" | 8'-1" | 8'-7" | 9'-4" | 8'-1" | 8'-7" | 9'-2" |
| | 600HS350-68 | 50 | 9'-3" | 9'-11" | 10'-9" | 9'-3" | 9'-11" | 10'-9" | 9'-3" | 9'-11" | 10'-1" |
| | 600HS350-97 | 50 | 11'-2" | 11'-11" | 13'-0" | 11'-2" | 11'-11" | 13'-0" | 11'-2" | 11'-3" | 11'-3" |
| | 800HS350-54 | 50 | 8'-10" | 9'-7" | 10'-7" | 8'-10" | 9'-7" | 10'-7" | 8'-10" | 9'-7" | 10'-7" |
| | 800HS350-68 | 50 | 10'-3" | 11'-2" | 12'-4" | 10'-3" | 11'-2" | 12'-4" | 10'-3" | 11'-2" | 12'-4" |
| 800HS350-97 | 50 | 12'-2" | 13'-2" | 14'-11" | 12'-2" | 13'-2" | 14'-11" | 12'-2" | 13'-2" | 14'-1" | |

Allowable Opening Widths (3.0" Flange)

Interior Structural Composite Table Notes

1. Deflections are computed using 1.0 times the listed wind load
2. Header to be installed with open side facing up
3. Minimum opening height based on 36 inches (center of wall). This table is also applicable for door openings
4. Limitations to opening widths are 16'-0" for 3-5/8" members and 20'-0" for 6" & 8" members
5. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
6. Calculated flexural strength of the jamb based upon $L_b \leq L_u$ 7
7. This table is applicable for a curtain wall application, but it is not intended for load bearing walls
8. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
9. Tabled widths marked with an * (asterisk) require web stiffening at each end of the jamb. Web crippling check uses 1" of bearing length
10. The strength analysis included separate bending and shear checks plus combined bending and shear
11. Unless connections are engineered separately, jambs must be the same gauge and strength as the header
12. Opening width is also limited by header and clip considerations. See clip and header table for limits
13. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
14. Table to be used by qualified engineers only.

Single Framing Used as Interior Jamb Studs

| Wall Height (ft) | Section | Fy (ksi) | 5psf | | | 10psf | | | 15psf | | |
|------------------|-------------|----------|--------|---------|--------|----------|----------|---------|----------|----------|---------|
| | | | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 |
| 9 | 362JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 16'-0"* | 13'-2" | 7'-3" | 10'-10"* | 8'-3" | 4'-4" |
| | 362JS300-54 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 9'-5" | 16'-0" | 10'-8" | 5'-9" |
| | 362JS300-68 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 12'-6" | 16'-0" | 14'-1" | 7'-10" |
| | 362JS300-97 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 11'-5" |
| | 600JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* |
| | 600JS300-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 600JS300-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 600JS300-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* |
| | 800JS300-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| 11 | 362JS300-43 | 33 | 16'-0" | 14'-5" | 8'-1" | 10'-5" | 6'-6" | 3'-3" | 6'-6" | 3'-10" | |
| | 362JS300-54 | 50 | 16'-0" | 16'-0" | 10'-5" | 13'-4" | 8'-5" | 4'-5" | 8'-5" | 5'-1" | |
| | 362JS300-68 | 50 | 16'-0" | 16'-0" | 13'-9" | 16'-0" | 11'-2" | 6'-1" | 11'-2" | 7'-0" | 3'-7" |
| | 362JS300-97 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 9'-1" | 16'-0" | 10'-3" | 5'-6" |
| | 600JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 16'-0"* | 16'-0"* | 13'-6"* | 13'-10"* | 13'-10"* | 8'-6"* |
| | 600JS300-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 17'-3" | 20'-0" | 19'-4" | 11'-0" |
| | 600JS300-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 14'-7" |
| | 600JS300-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* | 16'-0"* |
| | 800JS300-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| 13 | 362JS300-43 | 33 | 13'-0" | 8'-2" | 4'-4" | 5'-9" | 3'-4" | | 3'-4" | | |
| | 362JS300-54 | 50 | 16'-0" | 10'-6" | 5'-9" | 7'-6" | 4'-6" | | 4'-6" | | |
| | 362JS300-68 | 50 | 16'-0" | 13'-11" | 7'-9" | 10'-1" | 6'-3" | 3'-2" | 6'-3" | 3'-8" | |
| | 362JS300-97 | 50 | 16'-0" | 16'-0" | 11'-4" | 14'-6" | 9'-2" | 4'-11" | 9'-2" | 5'-7" | |
| | 600JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 14'-9"* | 13'-9"* | 7'-8" | 9'-5"* | 8'-8"* | 4'-7" |
| | 600JS300-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 9'-11" | 17'-6"* | 11'-2" | 6'-1" |
| | 600JS300-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 13'-2" | 20'-0" | 14'-10" | 8'-3" |
| | 600JS300-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 19'-0" | 20'-0" | 20'-0" | 12'-2" |
| | 800JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 16'-0"* | 16'-0"* | 16'-0"* | 12'-11"* | 12'-11"* | 10'-5"* |
| | 800JS300-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 13'-5" |
| 15 | 362JS300-43 | 33 | 8'-0" | 4'-10" | | 3'-3" | | | | | |
| | 362JS300-54 | 50 | 10'-4" | 6'-4" | 3'-3" | 4'-5" | | | | | |
| | 362JS300-68 | 50 | 13'-8" | 8'-7" | 4'-7" | 6'-1" | 3'-7" | | 3'-7" | | |
| | 362JS300-97 | 50 | 16'-0" | 12'-6" | 6'-11" | 9'-0" | 5'-6" | | 5'-6" | 3'-2" | |
| | 600JS300-43 | 33 | 16'-0" | 16'-0" | 10'-5" | 10'-8"* | 8'-6" | 4'-6" | 6'-8"* | 5'-2"* | |
| | 600JS300-54 | 50 | 20'-0" | 20'-0" | 13'-5" | 17'-2" | 10'-11" | 6'-0" | 10'-11" | 6'-10" | 3'-6" |
| | 600JS300-68 | 50 | 20'-0" | 20'-0" | 17'-9" | 20'-0" | 14'-6" | 8'-1" | 14'-6" | 9'-2" | 4'-11" |
| | 600JS300-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 11'-11" | 20'-0" | 13'-5" | 7'-5" |
| | 800JS300-43 | 33 | 16'-0" | 16'-0" | 16'-0" | 14'-10"* | 14'-10"* | 10'-2"* | 9'-6"* | 9'-6"* | 6'-3"* |
| | 800JS300-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 13'-1" | 19'-7"* | 14'-9"* | 8'-3" |
| 800JS300-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 17'-3" | 20'-0" | 19'-4" | 11'-0" | |
| 800JS300-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 16'-0" | |

Allowable Opening Widths (3.5" Flange)

Interior Structural Composite Table Notes

1. Deflections are computed using 1.0 times the listed wind load
2. Header to be installed with open side facing up
3. Minimum opening height based on 36 inches (center of wall). This table is also applicable for door openings
4. Limitations to opening widths are 16'-0" for 3-5/8" members and 20'-0" for 6" & 8" members
5. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
6. Calculated flexural strength of the jamb based upon $L_b \leq L_u$ 7
7. This table is applicable for a curtain wall application, but it is not intended for load bearing walls
8. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
9. Tabled widths marked with an * (asterisk) require web stiffening at each end of the jamb. Web crippling check uses 1" of bearing length
10. The strength analysis included separate bending and shear checks plus combined bending and shear
11. Unless connections are engineered separately, jambs must be the same gauge and strength as the header
12. Opening width is also limited by header and clip considerations. See clip and header table for limits
13. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
14. Table to be used by qualified engineers only.

Single Framing Used as Interior Jamb Studs

| Wall Height (ft) | Section | Fy (ksi) | 5psf | | | 10psf | | | 15psf | | |
|------------------|-------------|----------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| | | | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 |
| 9 | 362JS350-54 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 10'-5" | 16'-0" | 11'-9" | 6'-6" |
| | 362JS350-68 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 14'-2" | 16'-0" | 15'-11" | 8'-11" |
| | 362JS350-97 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 13'-1" |
| | 600JS350-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 600JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 600JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS350-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| 11 | 362JS350-54 | 50 | 16'-0" | 16'-0" | 11'-6" | 14'-9" | 9'-4" | 5'-0" | 9'-4" | 5'-9" | |
| | 362JS350-68 | 50 | 16'-0" | 16'-0" | 15'-7" | 16'-0" | 12'-9" | 7'-0" | 12'-9" | 8'-0" | 4'-2" |
| | 362JS350-97 | 50 | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 16'-0" | 10'-5" | 16'-0" | 11'-9" | 6'-5" |
| | 600JS350-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 18'-10" | 20'-0" | 20'-0" | 12'-1" |
| | 600JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 16'-3" |
| | 600JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS350-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0"* | 20'-0"* | 20'-0"* |
| | 800JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| 13 | 362JS350-54 | 50 | 16'-0" | 11'-8" | 6'-5" | 8'-5" | 5'-1" | | 5'-1" | | |
| | 362JS350-68 | 50 | 16'-0" | 15'-9" | 8'-10" | 11'-5" | 7'-2" | 3'-8" | 7'-2" | 4'-3" | |
| | 362JS350-97 | 50 | 16'-0" | 16'-0" | 13'-0" | 16'-0" | 10'-7" | 5'-9" | 10'-7" | 6'-7" | 3'-4" |
| | 600JS350-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 19'-1" | 10'-10" | 19'-1"* | 12'-3" | 6'-9" |
| | 600JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 14'-8" | 20'-0" | 16'-5" | 9'-3" |
| | 600JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 13'-8" |
| | 800JS350-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0"* | 20'-0"* | 14'-6" |
| | 800JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 19'-4" |
| 15 | 362JS350-54 | 50 | 11'-5" | 7'-1" | 3'-8" | 5'-0" | | | | | |
| | 362JS350-68 | 50 | 15'-6" | 9'-10" | 5'-3" | 7'-0" | 4'-2" | | 4'-2" | | |
| | 362JS350-97 | 50 | 16'-0" | 14'-4" | 8'-0" | 10'-4" | 6'-5" | 3'-3" | 6'-5" | 3'-9" | |
| | 600JS350-54 | 50 | 20'-0" | 20'-0" | 14'-8" | 18'-9" | 12'-0" | 6'-7" | 12'-0" | 7'-6" | 3'-11" |
| | 600JS350-68 | 50 | 20'-0" | 20'-0" | 19'-8" | 20'-0" | 16'-1" | 9'-1" | 16'-1" | 10'-3" | 5'-6" |
| | 600JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 13'-5" | 20'-0" | 15'-1" | 8'-5" |
| | 800JS350-54 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 14'-3" | 20'-0"* | 16'-0"* | 9'-0" |
| | 800JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 18'-11" | 20'-0" | 20'-0" | 12'-1" |
| 800JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 17'-9" | |

Allowable Opening Widths (3.0" Flange)

Interior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up
3. Minimum opening height based on 36 inches (center of wall). This table is also applicable for door openings
4. Limitations to opening widths are 16'-0" for 3-5/8" members and 20'-0" for 6" & 8" members
5. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
6. Calculated flexural strength of the jamb based upon $L_b \leq L_u$
7. This table is applicable for a curtain wall application, but it is not intended for load bearing walls
8. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
9. Tabled widths marked with an * (asterisk) require web stiffening at each end of the jamb. Web crippling check uses 1" of bearing length
10. The strength analysis included separate bending and shear checks plus combined bending and shear
11. Unless connections are engineered separately, jambs must be the same gauge and strength as the header
12. Opening width is also limited by header and clip considerations. See clip and header table for limits
13. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
14. Table to be used by qualified engineers only.

Single Framing Used as Exterior Jamb Studs

| Wall Height (ft) | Section | Fy (ksi) | 20psf | | | 25psf | | | 30psf | | |
|------------------|------------|----------|----------|----------|----------|---------|---------|---------|---------|---------|----------|
| | | | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 |
| 9 | 362J300-43 | 33 | 7'-9"* | 7'-9"* | 4'-9" | 5'-10"* | 5'-10"* | 3'-6" | 4'-8"* | 4'-8"* | |
| | 362J300-54 | 50 | 16'-0" | 11'-6" | 6'-4" | 12'-7" | 8'-11" | 4'-9" | 10'-3" | 7'-2" | 3'-8" |
| | 362J300-68 | 50 | 16'-0" | 15'-2" | 8'-6" | 16'-0" | 11'-10" | 6'-6" | 14'-7" | 9'-7" | 5'-2" |
| | 362J300-97 | 50 | 16'-0" | 16'-0" | 12'-4" | 16'-0" | 16'-0" | 9'-7" | 16'-0" | 13'-11" | 7'-9" |
| | 600J300-43 | 33 | 15'-10"* | 15'-10"* | 15'-10"* | 12'-5"* | 12'-5"* | 12'-5"* | 10'-2"* | 10'-2"* | 10'-2"* |
| | 600J300-54 | 50 | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 18'-3"* | 20'-0"* | 20'-0"* | 14'-11"* |
| | 600J300-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 19'-8"* |
| | 600J300-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800J300-43 | 33 | 16'-0"* | 16'-0"* | 16'-0"* | 15'-6"* | 15'-6"* | 15'-6"* | 12'-9"* | 12'-9"* | 12'-9"* |
| | 800J300-54 | 50 | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* |
| 11 | 362J300-43 | 33 | 4'-6" | 4'-2" | | 3'-3" | 3'-1" | | | | |
| | 362J300-54 | 50 | 9'-1" | 5'-7" | | 7'-0" | 4'-2" | | 5'-7" | 3'-3" | |
| | 362J300-68 | 50 | 12'-1" | 7'-7" | | 9'-5" | 5'-9" | | 7'-7" | 4'-7" | |
| | 362J300-97 | 50 | 16'-0" | 11'-1" | 6'-0" | 13'-7" | 8'-7" | 4'-6" | 11'-1" | 6'-11" | 3'-6" |
| | 600J300-43 | 33 | 10'-0"* | 10'-0"* | 9'-3"* | 7'-9"* | 7'-9"* | 7'-1"* | 6'-3"* | 6'-3"* | 5'-8"* |
| | 600J300-54 | 50 | 20'-0"* | 20'-0"* | 11'-11" | 16'-0"* | 16'-0"* | 9'-3" | 13'-2"* | 13'-2"* | 7'-5" |
| | 600J300-68 | 50 | 20'-0" | 20'-0" | 15'-9" | 20'-0"* | 20'-0"* | 12'-4" | 17'-6"* | 17'-8"* | 10'-0" |
| | 600J300-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 17'-9" | 20'-0" | 20'-0" | 14'-6" |
| | 800J300-43 | 33 | 13'-4"* | 13'-4"* | 13'-4"* | 10'-5"* | 10'-5"* | 10'-5"* | 8'-6"* | 8'-6"* | 8'-6"* |
| | 800J300-54 | 50 | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 19'-6"* | 17'-8"* | 17'-8"* | 16'-0"* |
| 13 | 362J300-43 | 33 | | | | | | | | | |
| | 362J300-54 | 50 | 4'-11" | | | 3'-8" | | | | | |
| | 362J300-68 | 50 | 6'-9" | 4'-0" | | 5'-1" | | | 4'-0" | | |
| | 362J300-97 | 50 | 9'-11" | 6'-2" | 3'-1" | 7'-8" | 4'-7" | | 6'-2" | 3'-7" | |
| | 600J300-43 | 33 | 6'-9"* | 6'-9"* | 5'-0"* | 5'-1"* | 5'-1"* | 3'-9"* | 4'-0"* | 4'-0"* | |
| | 600J300-54 | 50 | 14'-1"* | 12'-1" | 6'-8" | 11'-0"* | 9'-4" | 5'-0" | 8'-11"* | 7'-7" | 3'-11" |
| | 600J300-68 | 50 | 19'-8" | 16'-0" | 9'-0" | 15'-5" | 12'-6" | 6'-11" | 12'-8" | 10'-2" | 5'-6" |
| | 600J300-97 | 50 | 20'-0" | 20'-0" | 13'-1" | 20'-0" | 18'-0" | 10'-2" | 19'-10" | 14'-9" | 8'-3" |
| | 800J300-43 | 33 | 9'-5"* | 9'-5"* | 9'-5"* | 7'-3"* | 7'-3"* | 7'-3"* | 5'-10"* | 5'-10"* | 5'-10"* |
| | 800J300-54 | 50 | 19'-5"* | 19'-5"* | 14'-5"* | 15'-3"* | 15'-3"* | 11'-3"* | 12'-6"* | 12'-6"* | 9'-2"* |
| 15 | 362J300-43 | 33 | | | | | | | | | |
| | 362J300-54 | 50 | | | | | | | | | |
| | 362J300-68 | 50 | 3'-11" | | | | | | | | |
| | 362J300-97 | 50 | 6'-0" | 3'-6" | | 4'-6" | | | 3'-6" | | |
| | 600J300-43 | 33 | 4'-8"* | 4'-8"* | | 3'-6"* | 3'-6"* | | | | |
| | 600J300-54 | 50 | 10'-2" | 7'-5" | 3'-10" | 7'-10" | 5'-7" | | 6'-4" | 4'-5" | |
| | 600J300-68 | 50 | 14'-3" | 9'-11" | 5'-4" | 11'-2" | 7'-8" | 4'-0" | 9'-1" | 6'-1" | 3'-1" |
| | 600J300-97 | 50 | 20'-0" | 14'-5" | 8'-1" | 17'-7" | 11'-3" | 6'-2" | 14'-5" | 9'-2" | 4'-10" |
| | 800J300-43 | 33 | 6'-10"* | 6'-10"* | 6'-10"* | 5'-2"* | 5'-2"* | 5'-2"* | 4'-1"* | 4'-1"* | 4'-1"* |
| | 800J300-54 | 50 | 14'-5"* | 14'-5"* | 8'-11" | 11'-3"* | 11'-3"* | 6'-10" | 9'-2"* | 9'-2"* | 5'-5" |
| 800J300-68 | 50 | 20'-0"* | 20'-0"* | 11'-10" | 16'-8"* | 16'-4"* | 9'-2" | 13'-8"* | 13'-4"* | 7'-5" | |
| 800J300-97 | 50 | 20'-0" | 20'-0" | 17'-3" | 20'-0" | 20'-0" | 13'-6" | 20'-0" | 19'-4" | 11'-0" | |

Allowable Opening Widths (3.5" Flange)

Interior Structural Composite Table Notes

1. Deflections are computed using 0.7 times the listed wind load
2. Header to be installed with open side facing up
3. Minimum opening height based on 36 inches (center of wall). This table is also applicable for door openings
4. Limitations to opening widths are 16'-0" for 3-5/8" members and 20'-0" for 6" & 8" members
5. Table calculations are in accordance with AISI 2001 NASPEC w/2004 supplement
6. Calculated flexural strength of the jamb based upon $L_b \leq L_u$ 7
7. This table is applicable for a curtain wall application, but it is not intended for load bearing walls
8. Tables were prepared using a 16" o.c. spacing from the jamb stud to the first adjacent typical wall stud
9. Tabled widths marked with an * (asterisk) require web stiffening at each end of the jamb. Web crippling check uses 1" of bearing length
10. The strength analysis included separate bending and shear checks plus combined bending and shear
11. Unless connections are engineered separately, jambs must be the same gauge and strength as the header
12. Opening width is also limited by header and clip considerations. See clip and header table for limits
13. Headers are assumed to be connected to the jamb with matching 14 gage 50 ksi MBA clips using 8 #10-16 screws
14. Table to be used by qualified engineers only.

Single Framing Used as Exterior Jamb Studs

| Wall Height (ft) | Section | F _y (ksi) | 5psf | | | 10psf | | | 15psf | | |
|------------------|-------------|----------------------|----------|----------|---------|---------|---------|----------|----------|----------|---------|
| | | | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 |
| 9 | 362JS350-54 | 50 | 16'-0" | 12'-9" | 7'-0" | 13'-4" | 9'-11" | 5'-4" | 10'-10" | 8'-0" | 4'-2" |
| | 362JS350-68 | 50 | 16'-0" | 16'-0" | 9'-8" | 16'-0" | 13'-5" | 7'-5" | 15'-2" | 10'-11" | 5'-11" |
| | 362JS350-97 | 50 | 16'-0" | 16'-0" | 14'-2" | 16'-0" | 16'-0" | 11'-0" | 16'-0" | 15'-11" | 8'-11" |
| | 600JS350-54 | 50 | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 19'-10"* | 20'-0"* | 20'-0"* | 16'-3"* |
| | 600JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 600JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS350-54 | 50 | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* |
| | 800JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| 11 | 362JS350-54 | 50 | 10'-1" | 6'-3" | 3'-2" | 7'-9" | 4'-8" | | 6'-3" | 3'-8" | |
| | 362JS350-68 | 50 | 13'-9" | 8'-8" | 4'-7" | 10'-8" | 6'-7" | 3'-4" | 8'-8" | 5'-3" | |
| | 362JS350-97 | 50 | 16'-0" | 12'-8" | 7'-0" | 15'-7" | 9'-10" | 5'-4" | 12'-8" | 8'-0" | 4'-2" |
| | 600JS350-54 | 50 | 20'-0"* | 20'-0"* | 13'-0" | 16'-9"* | 16'-9"* | 10'-1" | 13'-9"* | 13'-9"* | 8'-2" |
| | 600JS350-68 | 50 | 20'-0" | 20'-0" | 17'-6" | 20'-0"* | 20'-0"* | 13'-8" | 19'-1"* | 19'-1"* | 11'-2" |
| | 600JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 19'-11" | 20'-0" | 20'-0" | 16'-4" |
| | 800JS350-54 | 50 | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 18'-0"* | 18'-0"* | 17'-4"* |
| | 800JS350-68 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| | 800JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" |
| 13 | 362JS350-54 | 50 | 5'-7" | 3'-2" | | 4'-2" | | | 3'-2" | | |
| | 362JS350-68 | 50 | 7'-9" | 4'-8" | | 5'-11" | 3'-5" | | 4'-8" | | |
| | 362JS350-97 | 50 | 11'-5" | 7'-2" | 3'-8" | 8'-10" | 5'-5" | | 7'-2" | 4'-3" | |
| | 600JS350-54 | 50 | 14'-9"* | 13'-2"* | 7'-4" | 11'-6"* | 10'-3"* | 5'-7" | 9'-5"* | 8'-4"* | 4'-5" |
| | 600JS350-68 | 50 | 20'-0" | 17'-9" | 10'-0" | 15'-11" | 13'-11" | 7'-9" | 13'-1" | 11'-4" | 6'-2" |
| | 600JS350-97 | 50 | 20'-0" | 20'-0" | 14'-9" | 20'-0" | 20'-0" | 11'-6" | 20'-0" | 16'-7" | 9'-4" |
| | 800JS350-54 | 50 | 19'-10"* | 19'-10"* | 15'-8"* | 15'-8"* | 15'-8"* | 12'-3"* | 12'-10"* | 12'-10"* | 9'-11"* |
| | 800JS350-68 | 50 | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 20'-0"* | 16'-4"* | 19'-3"* | 19'-3"* | 13'-4"* |
| | 800JS350-97 | 50 | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 20'-0" | 19'-6" |
| 15 | 362JS350-54 | 50 | 3'-1" | | | | | | | | |
| | 362JS350-68 | 50 | 4'-7" | | | 3'-4" | | | | | |
| | 362JS350-97 | 50 | 7'-0" | 4'-2" | | 5'-3" | 3'-0" | | 4'-2" | | |
| | 600JS350-54 | 50 | 10'-8" | 8'-1" | 4'-3" | 8'-3"* | 6'-2" | 3'-1" | 6'-8"* | 4'-11" | |
| | 600JS350-68 | 50 | 14'-9" | 11'-1" | 6'-1" | 11'-6" | 8'-7" | 4'-6" | 9'-4" | 6'-11" | 3'-6" |
| | 600JS350-97 | 50 | 20'-0" | 16'-3" | 9'-2" | 17'-8" | 12'-9" | 7'-0" | 14'-6" | 10'-4" | 5'-7" |
| | 800JS350-54 | 50 | 14'-9"* | 14'-9"* | 9'-9" | 11'-7"* | 11'-7"* | 7'-6" | 9'-5"* | 9'-5"* | 6'-0" |
| | 800JS350-68 | 50 | 20'-0"* | 20'-0"* | 13'-1" | 17'-2"* | 17'-2"* | 10'-2" | 14'-1"* | 14'-1"* | 8'-3" |
| | 800JS350-97 | 50 | 20'-0" | 20'-0" | 19'-2" | 20'-0" | 20'-0" | 15'-0" | 20'-0" | 20'-0" | 12'-3" |