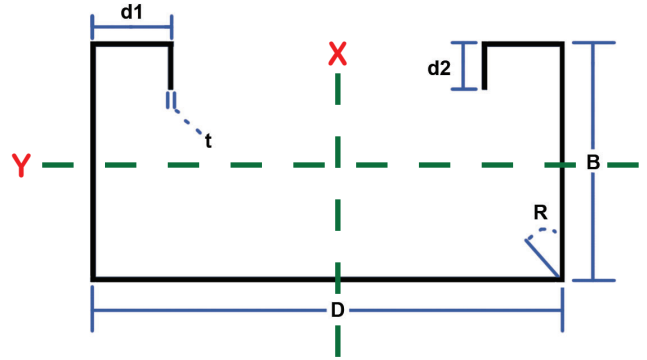


Exterior Wall Framing & Accessories

Important Notes

1. Effective properties incorporate the strength increase from the cold-work of forming as applicable per AISI S100-16 Spec, Sec. A3.3.2 (3).
2. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
3. Allowable moment is the lesser of M_{al} and M_{ad} . Stud distortional buckling is based on an assumed $k_{\phi} = 0$.
4. For deflection calculations, use the effective moment of inertia.
5. The effective moment of inertia for deflection is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-16 Spec Procedure I for serviceability determination has been used.

JamStud® Section Properties



| JamStud® Section Dimensions | | | | | | | |
|------------------------------|---------------|--------------|--------------|--------------|--------------------|------------------|-------------------------|
| Section (All Studs 50ksi) | Overall Depth | Flange Width | Return Lip 1 | Return Lip 2 | Inside Bend Radius | Design Thickness | Unit Weight (lbs/ft) |
| | D | B | d1 | d2 | R | t | |
| | (in) | (in) | (in) | (in) | (in) | (in) | |
| 350JAM250-33 | 3.5 | 2.5 | 0.5892 | 0.5 | 0.105 | 0.0346 | 1.196 |
| 350JAM250-43 | 3.5 | 2.5 | 0.6102 | 0.5 | 0.105 | 0.0451 | 1.553 |
| 350JAM250-54 | 3.5 | 2.5 | 0.6332 | 0.5 | 0.105 | 0.0566 | 1.942 |
| 350JAM250-68 | 3.5 | 2.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 2.435 |
| 350JAM250-97 | 3.5 | 2.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 3.438 |
| 350JAM350-68 | 3.5 | 3.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 2.920 |
| 362JAM250-33 | 3.625 | 2.5 | 0.5892 | 0.5 | 0.105 | 0.0346 | 1.210 |
| 362JAM250-43 | 3.625 | 2.5 | 0.6102 | 0.5 | 0.105 | 0.0451 | 1.572 |
| 362JAM250-54 | 3.625 | 2.5 | 0.6332 | 0.5 | 0.105 | 0.0566 | 1.966 |
| 362JAM250-68 | 3.625 | 2.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 2.465 |
| 362JAM250-97 | 3.625 | 2.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 3.481 |
| 362JAM350-68 | 3.625 | 3.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 2.950 |
| 400JAM250-33 | 4 | 2.5 | 0.5892 | 0.5 | 0.105 | 0.0346 | 1.255 |
| 400JAM250-43 | 4 | 2.5 | 0.6102 | 0.5 | 0.105 | 0.0451 | 1.630 |
| 400JAM250-54 | 4 | 2.5 | 0.6332 | 0.5 | 0.105 | 0.0566 | 2.038 |
| 400JAM250-68 | 4 | 2.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 2.556 |
| 400JAM250-97 | 4 | 2.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 3.611 |
| 400JAM350-68 | 4 | 3.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 3.041 |
| 400JAM350-97 | 4 | 3.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 4.303 |
| 400JAM350-118 | 4 | 3.5 | 0.7684 | 0.5 | 0.105 | 0.1242 | 5.216 |
| 550JAM250-33 | 5.5 | 2.5 | 0.5892 | 0.5 | 0.105 | 0.0346 | 1.431 |
| 550JAM250-43 | 5.5 | 2.5 | 0.6102 | 0.5 | 0.105 | 0.0451 | 1.860 |
| 550JAM250-54 | 5.5 | 2.5 | 0.6332 | 0.5 | 0.105 | 0.0566 | 2.327 |
| 550JAM250-68 | 5.5 | 2.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 2.920 |
| 550JAM250-97 | 5.5 | 2.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 4.130 |
| 550JAM250-118 | 5.5 | 2.5 | 0.7684 | 0.5 | 0.105 | 0.1242 | 5.005 |
| 550JAM350-68 | 5.5 | 3.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 3.405 |
| 550JAM350-97 | 5.5 | 3.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 4.822 |
| 550JAM350-118 | 5.5 | 3.5 | 0.7684 | 0.5 | 0.105 | 0.1242 | 5.849 |
| 600JAM250-33 | 6 | 2.5 | 0.5892 | 0.5 | 0.105 | 0.0346 | 1.490 |
| 600JAM250-43 | 6 | 2.5 | 0.6102 | 0.5 | 0.105 | 0.0451 | 1.937 |
| 600JAM250-54 | 6 | 2.5 | 0.6332 | 0.5 | 0.105 | 0.0566 | 2.424 |
| 600JAM250-68 | 6 | 2.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 3.041 |
| 600JAM250-97 | 6 | 2.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 4.303 |
| 600JAM250-118 | 6 | 2.5 | 0.7684 | 0.5 | 0.105 | 0.1242 | 5.216 |
| 600JAM350-68 | 6 | 3.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 3.527 |
| 600JAM350-97 | 6 | 3.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 4.995 |
| 600JAM350-118 | 6 | 3.5 | 0.7684 | 0.5 | 0.105 | 0.1242 | 6.060 |
| 800JAM250-43 | 8 | 2.5 | 0.6102 | 0.5 | 0.105 | 0.0451 | 2.244 |
| 800JAM250-54 | 8 | 2.5 | 0.6332 | 0.5 | 0.105 | 0.0566 | 2.809 |
| 800JAM250-68 | 8 | 2.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 3.527 |
| 800JAM250-97 | 8 | 2.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 4.995 |
| 800JAM250-118 | 8 | 2.5 | 0.7684 | 0.5 | 0.105 | 0.1242 | 6.060 |
| 800JAM350-68 | 8 | 3.5 | 0.6626 | 0.5 | 0.105 | 0.0713 | 4.012 |
| 800JAM350-97 | 8 | 3.5 | 0.7234 | 0.5 | 0.105 | 0.1017 | 5.688 |
| 800JAM350-118 | 8 | 3.5 | 0.7684 | 0.5 | 0.105 | 0.1242 | 6.904 |

Material Properties

ASTM A1003/A1003M or ASTM A653/A653M, Grade 50 (340), 50ksi (340MPa) minimum yield strength, 65ksi (450 MPa) minimum tensile strength, G-60 (Z180) hot-dipped galvanized coating.



