



SUSTAINABLE FRAMING

Product Submittal Sheet

Info@rstud.com

877-289-0705

www.rstud.com

Product category: R-stud 23 mil drywall stud
Product name: 362RS162-23 50Ksi G60
3-5/8" R-stud

Coating: G60
Color coding: White

Geometric Properties

| | | | |
|------------------|-----------|--------------------|--------------|
| Web depth | 3.625 in | Weight | 0.5591-lb/ft |
| Flange width | 1.625 in | Web opening length | 9-13/16-in |
| Stiffening lip | 0.500 in | Web opening width | 2.0-in |
| Design thickness | 0.0241 in | Minimum thickness | 0.023 in |
| Yield stress, Fy | 50 Ksi | | |

Gross Section Properties of Full Section, Strong Axis

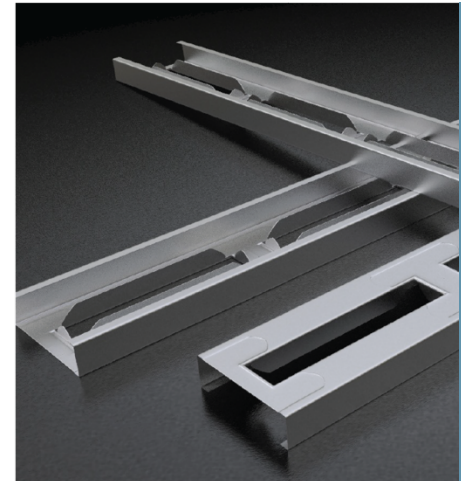
| | |
|------------------------------------|-------------------------|
| Cross sectional area (A) | 0.1762-in ² |
| Moment of inertia (Ix) | 0.4276-in ⁴ |
| Radius of gyration (Rx, r1) | 1.4981-in |
| Moment of inertia (Iy) | 0.06642-in ⁴ |
| Radius of gyration (Ry, r2) | 0.5658-in |
| Max bending moment Ix (Maxo) in | 3.7438-k- |
| Max bending moment Iy (Maxo) in | 1.5911-k- |
| Allowable shear force in web (Vax) | 1.1151-k |

Tension/Compression Properties

| | |
|---|----------------------------|
| Warping constant (Cw) | [0.0094433-in ⁶ |
| Distance from shear center to neutral axis (Xo) | 0.9696-in |
| Radii of gyration (Ro) | 1.8720-in |
| Torsional flexural constant (Beta) | FEA-in ⁴ |
| Compression Pao(max) | 2.8787-k |
| Tension Tao (Ta) | 5.3181-k |
| Unbraced Length (Lu) | full |

ASTM & Code Standards:

- ✓ ATI/Intertek CCRR 1073
- ✓ IBC 2012 Compliant
- ✓ AISI S-100 & S220-11
- ✓ ASTM E119, E72, E90
- ✓ ASTM AC86, C645, & C745
- ✓ U.S. Patent Numbers:
US and International Patents Issued



Drywall Stud

Web openings (not punch-outs) formed from web every 12 in. with Stamping at bridge every 12 in.

Notes:

- Calculated properties are based on Supported specifications.
- Effective properties herein incorporate the increased strength from cold working of the steel while forming. We only use 50Ksi coils.
- Tabulated properties, including torsional properties, are based on the added cross section properties of the web openings and indents as R-studs do not have punch-outs.
- Maxo Allowable moment includes cold work of forming
- Maxo Allowable moment is taken as the maximum value based on local or distortional buckling.
- For deflection calculations use the moment of inertia.
- Web opening is every 12 inches and are 9-13/16 inches long with flanges opening out of web. Corners of the web openings are enhanced with flared reliefs.

Sustainability- Steel is one of the most sustainable building materials in the world. It is recycled content, recyclable again and again, durable, safe, zinc coated, dimensionally stable and strong, as well as not susceptible to rot, termites, or mold.

Supported specifications:

- 2016 AISI - ASD, LRFD, and LSD
- 2012 AISI - ASD, LRFD, and LSD
- 2010 AISI - ASD, LRFD, and LSD
- 2007 AISI - ASD, LRFD, and LSD

Project Information

Name:
Address:

Contractor Information

Name:
Contact:
Phone:
Fax:

Architect Information

Name:
Contact:
Phone:
Fax:



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- 2004 AISI - ASD, LRFD, and LSD
- 2001 AISI - ASD, LRFD, and LSD
- 1999 AISI - ASD and LRFD
- 2002 ASCE - ASD and LRFD (stainless steel)

Product category: [insert category]

Product name: [insert name]

[insert info]

[362RS162-23-50Ksi G60] On 16 inch spacing

[insert title]

| Spacing (inches) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|------------------|-------|--------|-------|---------|-------|--------|--------|-------|-------|
| | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 16 | 20'6" | 17'11" | 16'1" | 16'1" | 14'3" | 12'11" | 14'2" | 12'2" | 11'3" |

Non-Composite Table Notes:

- [insert]

[362RS162-23-50Ksi G60] On 24 inch spacing

[insert title]

| Spacing (inches) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|------------------|--------|-------|-------|---------|-------|-------|--------|--------|-------|
| | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 24 | 17'11" | 15'8" | 14'3" | 14'0" | 12'4" | 11'1" | 12'7" | 10'10" | 9'7" |

Non-Composite Table Notes:

- [insert]

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