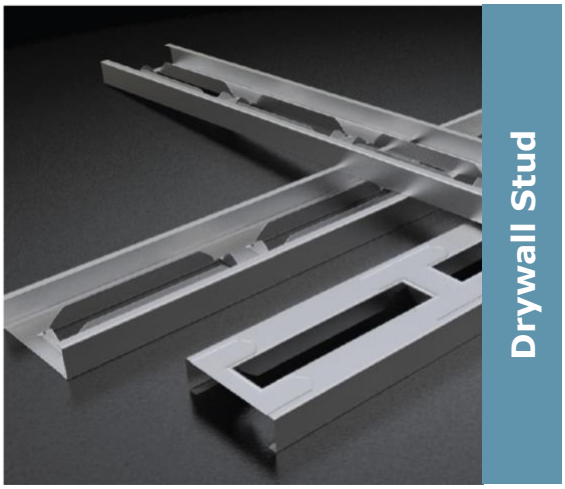
Product Data Sheet

info@rstud.com
877-289-0705
www.rstud.com

Product category: R-stud 30 mil Drywall Stud
Product name: 362RS125-30 50 Ksi G60
3-5/8" x 1-1/4" R-stud

Coating: G60
Color coding: White



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

Geometric Properties

Web depth	3.625 in	Weight	0.7251 lb/ft
Flange width	1.250 in	Web opening width	1-15/16 in
Stiffening lip	0.375 in	Web opening length	9-13/16 in
Design thickness	0.0312 in	Minimum thickness	0.0296 in
Yield stress, Fy	50 Ksi		

Gross Section Properties of Full Section, Strong Axis*

Cross sectional area (A)	0.23363 in^2
Moment of inertia (Ix)	0.62994 in^4
Radius of gyration (Rx, r1)	1.6557 in
Moment of inertia (Iy)	0.07426 in^4
Radius of gyration (Ry, r2)	0.5638 in
Max bending moment Ix (Maxo)	8.0026 k-in
Max bending moment Iy (Mayo)	2.1250 k-in
Allowable shear force in web (Vax)	1.6004 k

Tension/Compression Properties*

Warping constant (Cw)	0.009792 in^6
Distance from shear center to neutral axis (Xo)	-0.8888 in
Radii of gyration (ro)	1.7657 in
Torsional flexural constant (Beta)	6.9200e-5 in^4
Compression Pao (max)	4.4569 k
Tension Tao (Ta)	7.4642 k
Unbraced Length (Lu)	Full / Non-braced

Fully Braced Strength (CFS) *CFS result

ASTM & Code Standards:

- ✓ ATI/Intertek CCRR 1073
- ✓ IBC 2012 Compliant
- ✓ AISI S-100 & S220-11
- ✓ ASTM E119, E72, E90
- ✓ ASTM AC86, C645, & C745
- ✓ UL 263
- ✓ US, Canadian, and International Patents Issued

Notes:

- Calculated properties are based on AISI S100-12, North American Specifications for Cold-Formed Steel Structure Members and ICC-ES AC46-2015, Acceptance Criteria for Cold-Formed Steel Framing Members.
- Effective properties herein incorporate the increased strength from cold working of the steel while forming. We only use 50Ksi coils.
- Tabulated gross properties, including torsional properties, are based on the added cross section properties of the web openings. R-studs do not have punch-outs.
- Allowable moment includes cold work of forming.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on K-phi=0
- For deflection calculations, use the effective moment of inertia.
- Web openings are every 12 inches and are 9-13/16 inches long with flanges being 0.94 inches tall and corners of the web openings enhanced.

Sustainability: **R-stud** sources its steel coils from American Suppliers, such as US Steel and NUCOR's California Steel Industries for rolling in our manufacturing facilities. Our coils contain approximately 34.2% recycled steel. Approximately 19.8% is Post-consumer content, while Pre-consumer content is approximately 14.4%. R-studs are listed as "Red List Free" by the International Living Future Institute. **R-stud can provide a significant reduction of Embodied Carbon over comparable standard steel studs**. Steel is one of the most sustainable building materials in the world. It is recycled content, recyclable, durable, safe, zinc-coated, dimensionally stable and strong, as well as not susceptible to rot, termites, or mold.

Supporting Documentation

- 2016 AISI - ASD, LRFD, and LSD
- 2012 AISI - ASD, LRFD, and LSD
- 2010 AISI - ASD, LRFD, and LSD
- 2007 AISI - ASD, LRFD, and LSD
- 2004 AISI - ASD, LRFD, and LSD
- 2001 AISI - ASD, LRFD, and LSD
- 1999 AISI - ASD and LRFD & 2002 ASCE – ASD and LRFD (stainless steel)

Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:

Product Data Sheet

info@rstud.com
877-289-0705
www.rstud.com

Product category: R-stud 30 mil Drywall Stud
Product name: 362RS125-30 50Ksi G60
3-5/8" x 1-1/4 R-Stud

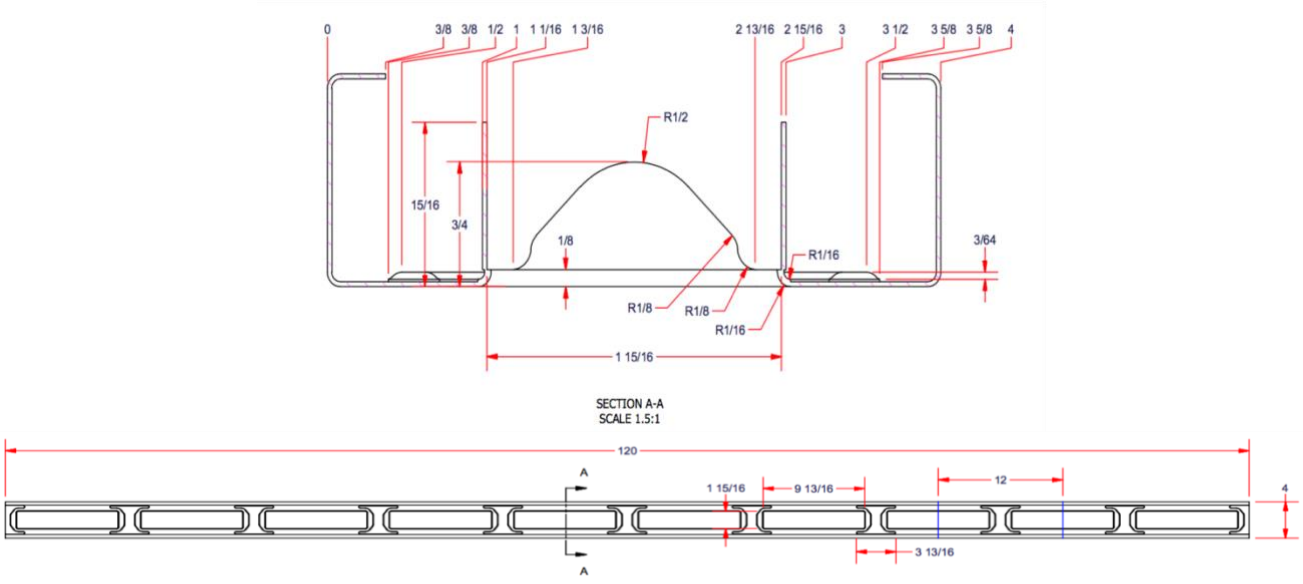
Limiting Wall Heights

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	22'-10"	17'-10"	15'-10"	19'-0"	15'-7"	13'-10"	18'-1"	14'-2"	12'-7"
24	19'-11"	15'-10"	13'-10"	17'-5"	13'-10"	12'-1"	15'-10"	12'-7"	11'-0"

Table Notes:

- Allowable composite limiting heights were determined from AC86-2012 testing by Intertek Testing / Architectural Testing, Inc.
- The composite limiting heights tables provided above are based on a single layer of Type X gypsum board from the following manufacturers, American, CertainTeed, Georgia Pacific, National, PABCO, and USG.
- The gypsum is to be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754-2004 using a minimum of No. 6 Type S Drywall spaced as listed below:
  - Screws spaced a minimum of 16 inches on-center to framing members spaced at 12 or 16 inches on-center.
  - Screws spaced a minimum of 12 inches on-center to framing members spaced at 24 inches on-center.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754-2008.

Profile



Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax: