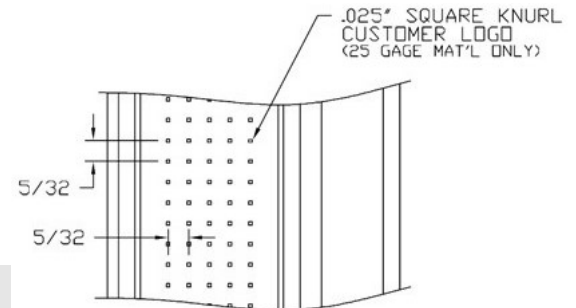
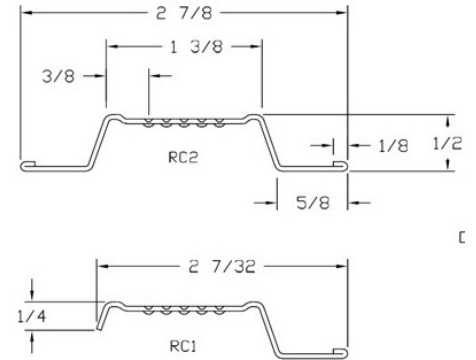


**Product Name:** Resilient Channel

## Important Properties Notes:

- Calculated properties are based on AISI S100-12 with S2-10 Supplement, North American Specification for Design of Cold-Formed Steel Structural Members.
- The centerline bend radius is based on inside corner radii shown in thickness chart.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.



## Properties

### Properties

#### Resilient Channel

depth	width	lip	thick	radius	$F_y$	$F_u$	Area	Weight	$I_x$	$S_x$	$r_x$	$I_y$	$r_y$	$A_g$	$I_{xo}$	$S_{xo}$	$M_a$
in	in	in	in	in	ksi	ksi	in <sup>2</sup>	plf	in <sup>4</sup>	in <sup>3</sup>	in	in <sup>4</sup>	in	in <sup>2</sup>	in <sup>4</sup>	in <sup>3</sup>	k-in
RC1-18	0.5000	2.1875	0.6250	0.0188	33	45	0.0531	0.1806	0.0020	0.0068	0.1948	0.0232	0.6606	0.0493	0.0020	0.0068	0.1342
RC1-30	0.5000	2.1875	0.6250	0.0312	33	45	0.0803	0.2731	0.0027	0.0091	0.1849	0.0301	0.6122	0.0761	0.0024	0.0078	0.1535
RC2-18	0.5000	2.8750	0.6250	0.0188	33	45	0.0718	0.2441	0.0030	0.0111	0.2036	0.0532	0.8607	0.0679	0.0028	0.0102	0.2016
RC2-30	0.5000	2.8750	0.6250	0.0312	33	45	0.1110	0.3774	0.0046	0.0176	0.2033	0.0733	0.8128	0.1012	0.0041	0.0155	0.3054

## Additional Specification Information

Studs Unlimited is an SFIA member. Studs Unlimited acts in accordance with the product and quality standards required by the SFIA program.

Studs Unlimited meets or exceeds ASTM C955, A653, and A1003.

## LEED Specification Information

**Materials & Resources Credit 2:** Construction Waste Management – Studs Unlimited Steel Framing Products are formed from steel and are 100% recyclable. **(1 point)**

**Materials & Resources Credit 4:** Recycled Content intends to increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials. As discussed and demonstrated below, North American steel building products contribute positively toward points under Credits 4.1 and 4.2. The following is required by LEED-NC Versions 2.2 and 2009:

**Credit 4.1 (1 point)** Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 10%(based on cost) of the total value of the materials in the project.

**Credit 4.2 (1 point)** Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 20% of the total value of the materials in the project.

**Materials & Resources Credit 5:** Regional Materials - Contact Studs Unlimited directly for information at [bjpowell@studsunlimited.com](mailto:bjpowell@studsunlimited.com). Studs Unlimited is located in Oklahoma City, Oklahoma. **(1 point)**