



RSIC clip allowable load and fastener specifications

To whom it may concern:

Load testing for both tension and shear was conducted by Testing Engineers, Inc., an independent certified testing laboratory in San Leandro California for the Resilient Sound Isolation Clip (RSIC-1) with drywall furring channels 25 gauge hemmed edge. The tested drywall furring channels was in conformance with the Steel Stud Manufacturers Association (SSMA) minimum standards.

The “Acoustical Design Load and Allowable Load” for the RSIC-1 is thirty six (36) pounds per RSIC-1.

The 36 pound per clip “Acoustical Design Load and Allowable Load” is the engineered target based upon the weight of 5/8” Type X gypsum board which is approximately 2,200 pounds per thousand square feet (mill net weight). Considering the maximum span index for 5/8” type X gypsum board is 24 inch and the SSMA Allowable Load for Drywall Furring Channels (25 gauge) in multi span while carrying a uniform load of six (6) pounds per square foot is 4’-2” (L/236).

The RSIC-1 is engineered to carry the Acoustical Design Load and Allowable Load of thirty six (36) pounds per RSIC-1, which is based upon the weight of two (2) layers of 5/8” gypsum board with the RSIC-1 clips spaced at 24” x 48” on center.

Fasteners used to support the RSIC-1 will have a published allowable load greater than thirty six (36) pounds in pull and shear. Prior to installation all support fasteners allowable load shall be confirmed to be greater than 36 for pull and shear.

6585 Whispering Sand Dr.
Las Vegas NV 89131
Telephone: 866-774-2100 Fax: 866-649-2710
Web site: <http://www.pac-intl.com>



Drywall furring channel load capacity and guidelines are published by the Steel Stud Manufacturers Association. The specifications are available on the SSMA website at <http://www.ssma.com/documents/ssmatechcatalog.pdf>

(Hat) Furring (F) Channel Allowable Ceiling Spans L/240

Section	Thickness (mil)	Fy (ksi)	Spans	Applied load								
				4 psf			6 psf			13 psf		
				Hat Spacing (in) o.c.			Hat Spacing (in) o.c.			Hat Spacing (in) o.c.		
				12	16	24	12	16	24	12	16	24
087F125	18	33	Single	5' 2"	4' 8"	4' 1"	4' 6"	4' 1"	3' 7"	3' 6"	3' 2"	2' 9"
			Multiple	6' 5"	5' 10"	5' 1"	5' 7"	5' 1"	4' 2"	4' 0"	3' 5"	2' 10"

The 36 lb load per RSIC isolator, limits the load to 4.4 lbs per sq ft. This calculates to multiple span capacities of:

- 4'6" @ 24" oc,
- 5'3" @ 16" oc,
- 5'8" @ 12" oc.

Should you have any further questions regarding the Acoustical Design Load and Allowable Load please feel free to contact our technical support team at 866-774-2100.

Sincerely

Michael Gernhart
Technical Advisor

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Las Vegas NV 89131
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