



Expanding Your Solutions

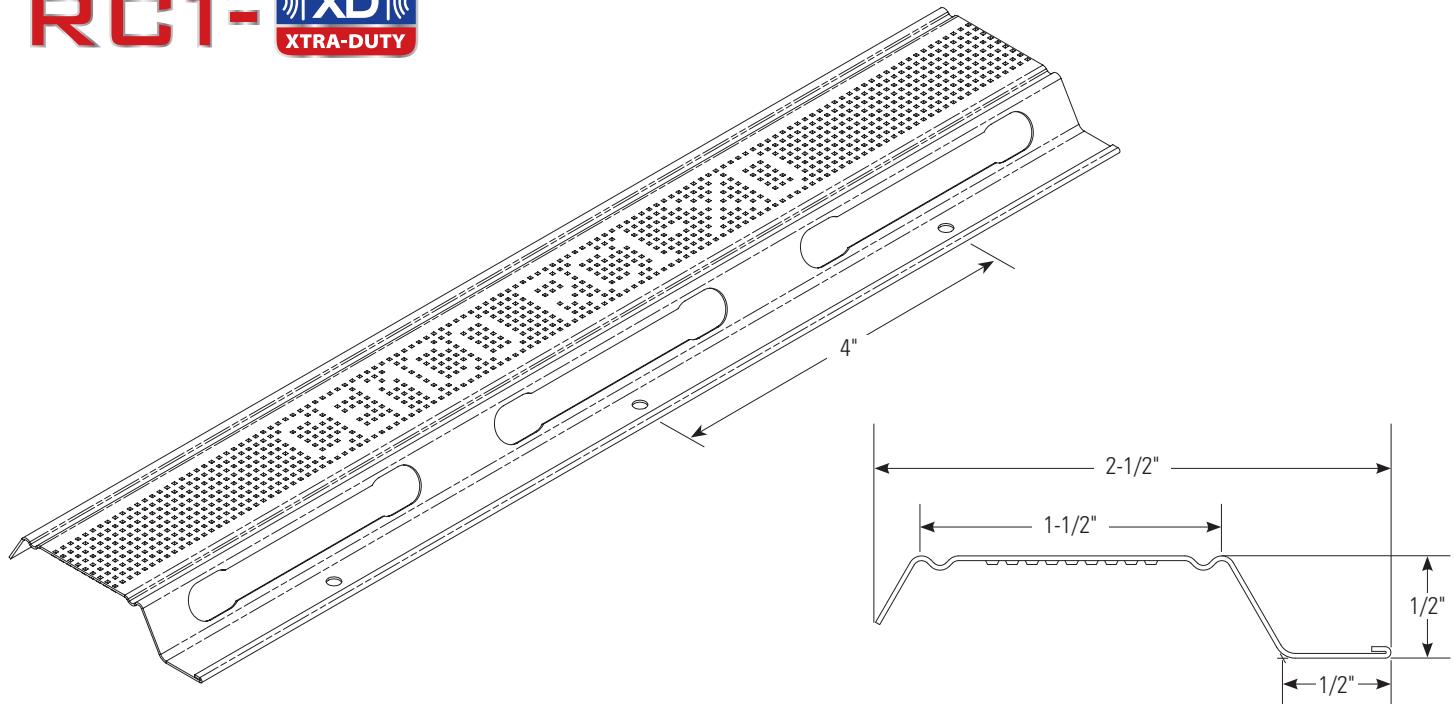
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## "RC1-XD" (XTRA-DUTY) RESILIENT CHANNEL (1/2" HEIGHT)



### Geometric Properties

**CEMCO's RC1-XD (Xtra-Duty)** Resilient Channel is manufactured from 22 mil thick G40 steel with a large 1-1/2" top screw flange, 1/2" bottom flange for nailing/screwing into wood/steel studs providing a full 1/2" furring height. G60 coating is available upon special request.

### Steel Thickness

Thickness (mil)	Design Thickness (in) <sup>1</sup>	Minimum Thickness (in) <sup>2</sup>
22	0.023 (0.59 mm)	0.022 (0.56 mm)

**Notes:**

1. Uncoated Steel Thickness. Thickness is for carbon sheet steel.

2. Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site, based on the AISI.

### ASTM & Code Standards:

- ASTM A653/A653M, A924/A924M, C645, A1003/A1003M, C754 (installation)
- IBC: 2012, 2015, 2018
- CBC: 2013, 2016
- AISI: S100-07, S100-12, S100-16, S220-11, S220-15

### LEED v4 for Building and Design Construction

- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

### CEMCO cold-formed steel framing products contain 30% to 37% recycled steel.

- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%

### Technical Services

Technical Services: 800.416.2278  
Structural Engineering/Design: 925.473.9340  
www.cemcosteel.com



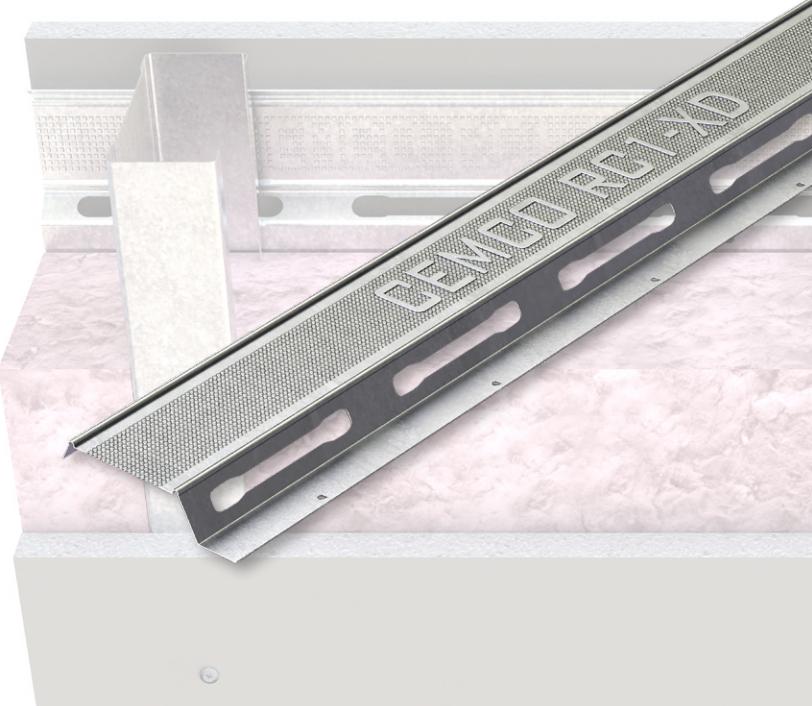
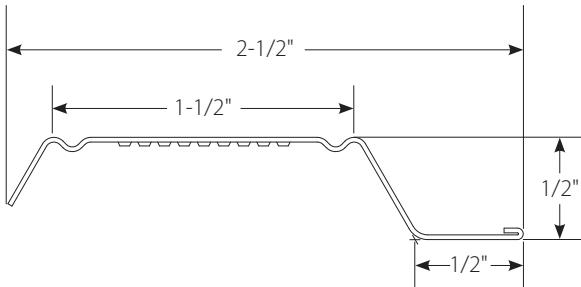
This technical information reflects the most current information available and supersedes any and all previous publications effective March 18, 2021.

03-18-21 AT

# RC1-XD on 3-5/8" ViperStud® Wall Partitions



CEMCO's RC1-XD (Xtra-Duty) Resilient Channel is manufactured from 22 mil thick G40 steel with a large 1-1/2" top screw flange, 1/2" bottom flange for nailing/screwing into wood/steel studs providing a full 1/2" furring height. G60 available upon special request.



## RC1-XD Sound Assemblies

Partition Type	Assembly Description	Stud Spacing	STC Rating / Test Report	
			362VS125-18 STC (Test Report)	362VS125-33 STC (Test Report)
	<ul style="list-style-type: none"><li>• 3-5/8" ViperStud®</li><li>• 3-1/2" R-13 unfaced insulation</li><li>• RC1-XD™ w/ 1 layer 5/8" Type X GWB on one side</li><li>• 1 layer 5/8" Type X GWB on the other side</li></ul>	24" o.c.	51 (M0012.01)	50 (TL21-134)
		16" o.c.	51 (M0016.01)	N/A
	<ul style="list-style-type: none"><li>• 3-5/8" ViperStud®</li><li>• 3-1/2" R-13 unfaced insulation</li><li>• RC1-XD™ w/ 2 layers 5/8" Type X GWB on one side</li><li>• 1 layer 5/8" Type X GWB on the other side</li></ul>	24" o.c.	57 (M0013.01)	54 (TL21-132)
		16" o.c.	55 (TL21-142)	N/A
	<ul style="list-style-type: none"><li>• 3-5/8" ViperStud®</li><li>• 3-1/2" R-13 unfaced insulation</li><li>• RC1-XD™ w/ 2 layers 5/8" Type X GWB on one side</li><li>• 2 layers 5/8" Type X GWB on the other side</li></ul>	24" o.c.	62 (M0014.01)	57 (TL21-133)
		16" o.c.	57 (TL21-143)	N/A

### Notes:

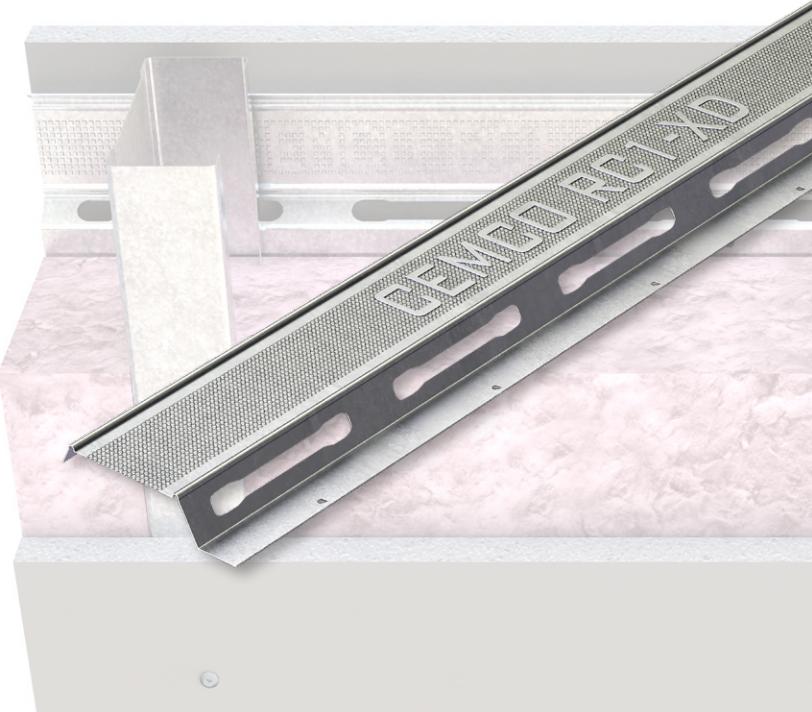
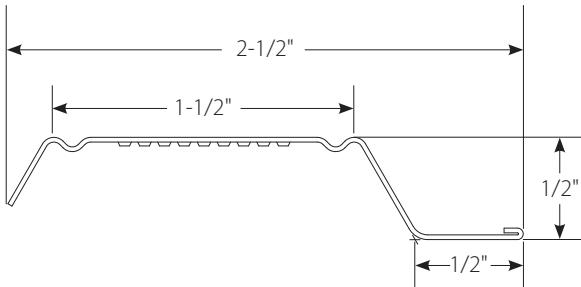
1. RC1-XD must be installed per the respective sound test report.
2. All sound test reports performed in accordance with ASTM E90 are available at [www.cemcosteel.com](http://www.cemcosteel.com).
3. Contact CEMCO Technical Services at 800-416-1178 for additional assistance.
4. Sound Transmission Class (STC) determined in accordance with ASTM E413-10.

Effective 05/03/2021

# RC1-XD on 3-5/8" Viper-X Wall Partitions



CEMCO's RC1-XD (Xtra-Duty) Resilient Channel is manufactured from 22 mil thick G40 steel with a large 1-1/2" top screw flange, 1/2" bottom flange for nailing/screwing into wood/steel studs providing a full 1/2" furring height. G60 available upon special request.



## RC1-XD Sound Assemblies

Partition Type	Assembly Description	Stud Spacing	STC Rating / Test Report
			362VXS144-18 STC (Test Report)
	<ul style="list-style-type: none"><li>3-5/8" Viper-X® Stud</li><li>3-1/2" R-13 unfaced insulation</li><li>RC1-XD™ w/ 1 layer 5/8" Type X GWB on one side</li><li>1 layer 5/8" Type X GWB on the other side</li></ul>	24" o.c.	52 (TL21-147)
		16" o.c.	51 (TL21-144)
	<ul style="list-style-type: none"><li>3-5/8" Viper-X® Stud</li><li>3-1/2" R-13 unfaced insulation</li><li>RC1-XD™ w/ 2 layers 5/8" Type X GWB on one side</li><li>1 layer 5/8" Type X GWB on the other side</li></ul>	24" o.c.	56 (TL21-148)
		16" o.c.	57 (TL21-145)
	<ul style="list-style-type: none"><li>3-5/8" Viper-X® Stud</li><li>3-1/2" R-13 unfaced insulation</li><li>RC1-XD™ w/ 2 layers 5/8" Type X GWB on one side</li><li>2 layers 5/8" Type X GWB on the other side</li></ul>	24" o.c.	58 (TL21-149)
		16" o.c.	59 (TL21-146)

### Notes:

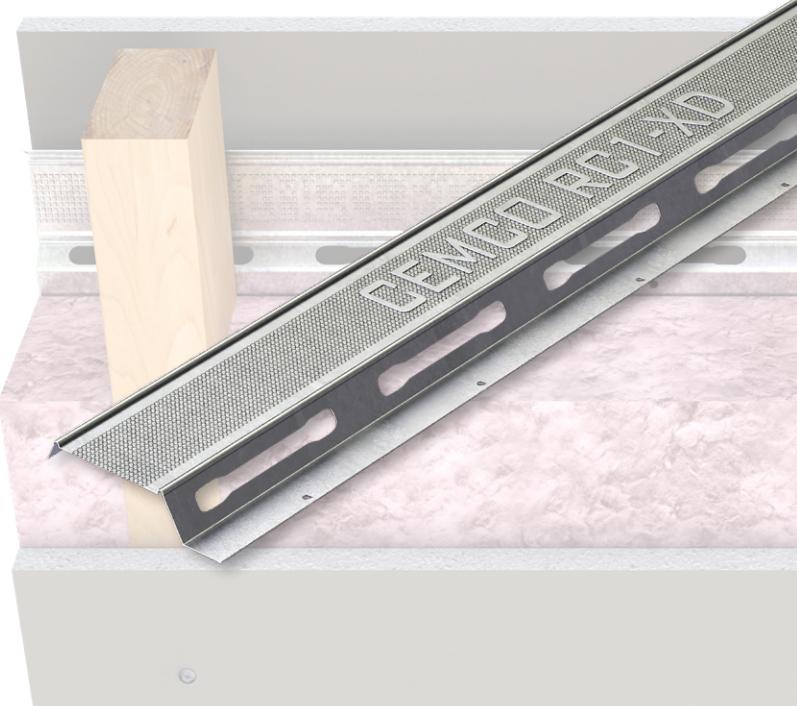
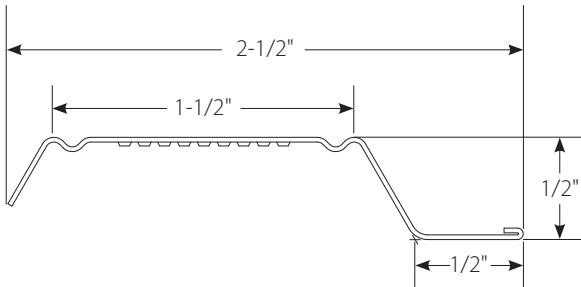
1. RC1-XD must be installed per the respective sound test report.
2. All sound test reports performed in accordance with ASTM E90 are available at [www.cemcosteel.com](http://www.cemcosteel.com).
3. Contact CEMCO Technical Services at 800-416-1178 for additional assistance.
4. Sound Transmission Class (STC) determined in accordance with ASTM E413-10.

Effective 04/26/2021

# RC1-XD on Wood Frame Wall Partitions



CEMCO's RC1-XD (Xtra-Duty) Resilient Channel is manufactured from 22 mil thick G40 steel with a large 1-1/2" top screw flange, 1/2" bottom flange for nailing/screwing into wood/steel studs providing a full 1/2" furring height. G60 available upon special request.



## RC1-XD Sound Assemblies

Partition Type	Assembly Description	Stud Spacing	STC Rating / Test Report	
			2 x 4 wood studs STC (Test Report)	2 x 6 wood studs STC (Test Report)
	<ul style="list-style-type: none"><li>• Nominal "2 x" Wood Wall Stud</li><li>• R-13 unfaced insulation (2 x 4)</li><li>• R-19 unfaced insulation (2 x 6)</li><li>• RC1-XD™ w/1 layer 5/8" Type X GXB one side</li><li>• 1 layer 5/8" Type X on the other side</li></ul>	16" o.c.	51 (TL21-226)	51 (TL21-229)
	<ul style="list-style-type: none"><li>• Nominal "2 x" Wood Wall Stud</li><li>• R-13 unfaced insulation (2 x 4)</li><li>• R-19 unfaced insulation (2 x 6)</li><li>• RC1-XD w/2 layers 5/8" Type X GXB one side</li><li>• 1 layer 5/8" Type X on the other side</li></ul>	16" o.c.	56 (TL21-227)	58 (TL21-230)
	<ul style="list-style-type: none"><li>• Nominal "2 x" Wood Wall Stud</li><li>• R-13 unfaced insulation (2 x 4)</li><li>• R-19 unfaced insulation (2 x 6)</li><li>• RC1-XD w/2 layers 5/8" Type X GXB one side</li><li>• 2 layers 5/8" Type X on the other side</li></ul>	16" o.c.	59 (TL21-228)	62 (TL21-231)

### Notes:

1. RC1-XD must be installed per the respective sound test report.
2. All sound test reports performed in accordance with ASTM E90 are available at [www.cemcosteel.com](http://www.cemcosteel.com).
3. Contact CEMCO Technical Services at 800-416-1178 for additional assistance.
4. Sound Transmission Class (STC) determined in accordance with ASTM E413-10.

Effective 04/26/2021