

Tremco Incorporated

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TREMCO[®]

Commercial Sealants & Waterproofing

CERTIFICATION LETTER

We certify that Tremco Acoustical Sealant conforms to Canadian Specification CAN/CGSB-19-21-M87.

The STC, sound transmission class, values for Acoustical Sealant are shown in the attached tables.

Table 1. Acoustic Performance of Tremco Sealants
Material Properties

Material	Acoustical Sealant	TREMstop Acrylic	TremFlex 834
Shear Modulus* (G_R), N/m ²	45,000	200,000	410,000
Loss Factor* ($\tan(\delta_L)$), dimensionless	0.33	0.56	0.67
Density (cured), kg/m ³	1720	1100	1630
Depth after Shrinkage of 1/2" bead, inches	0.465	0.371	0.391
Predicted Acoustic Performance of Sealant Alone			
Sound Transmission Loss (STC) of single 1/4", (as applied**) bead	30	24	28
Sound Transmission Loss (STC) of single 1/2", (as applied**) bead	36	30	34
STC of two 1/4", (as applied**) beads, separated by 3.5", with sound absorption material in between	48	36	44
STC of two 1/2", (as applied**) beads, separated by 3.5", with sound absorption material in between	60	48	56
* based on tests at 25° C, and 100 rad/s. G_R is the real component of the complex shear modulus. ** depth of bead before shrinkage.			

Table 2. Acoustic Performance of Wall Systems

Base Wall System (No Leaks)		STC	
Wall Type 1. One layer 5/8" gypsum board, with joints taped and filled, either side of 3-5/8" steel studs, spaced 24" on centre, with absorptive material in cavity.		45*	
Wall Type 2. Two layers 1/2" gypsum board, with joints overlapped, taped and filled, either side of 3-5/8" steel studs, spaced 24" on centre, with absorptive material in cavity.		53*	
Predicted Acoustic Degradation due to Leakage and Performance of Tremco Sealant (STC)			
Sealant Material	Acoustical Sealant	TREMstop Acrylic	TremFlex 834
Wall Type 1 with 1/4" gap along top or bottom of 8' high wall.	26 (no sealant)		
Above sealed with one 1/4" bead** on one side only.	44	41	43
Above sealed with one 1/4" bead on both sides.	45	45	45
Above sealed with two 1/4" beads on both sides.	45	45	45
Wall Type 2 with 1/4" gap along top or bottom of 8' high wall.	26 (no sealant)		
Above sealed with one 1/4" bead on one side only.	48	43	47
Above sealed with one 1/4" bead on both sides.	53	52	53
Above sealed with two 1/4" beads on both sides.	53	53	53
* as per National Building Code of Canada, Table A-9.10.3.A.			
** depth of bead before shrinkage.			