



Tremco Commercial Sealants & Waterproofing  
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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

<b>Material</b>	<b>Acoustical Sealant</b>	<b>TREMstop Acrylic</b>	<b>TremFlex 834</b>
Shear Modulus* ( $G_R$ ), N/m <sup>2</sup>	45,000	200,000	410,000
Loss Factor* ( $\tan(\delta_L)$ ), dimensionless	0.33	0.56	0.67
Density (cured), kg/m <sup>3</sup>	1720	1100	1630
Depth after Shrinkage of 1/2" bead, inches	0.465	0.371	0.391
<b>Predicted Acoustic Performance of Sealant Alone</b>			
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.			

<b>Table 2. Acoustic Performance of Wall Systems</b>			
<b>Base Wall System (No Leaks)</b>			<b>STC</b>
<b>Wall Type 1.</b> 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*
<b>Wall Type 2.</b> 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*
<b>Predicted Acoustic Degradation due to Leakage and Performance of Tremco Sealant (STC)</b>			
<b>Sealant Material</b>	<b>Acoustical Sealant</b>	<b>TREMstop Acrylic</b>	<b>TremFlex 834</b>
<b>Wall Type 1</b> 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
<b>Wall Type 2</b> 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.			