



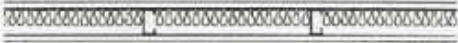





Sound-Pruf™ Sound Transmission Class (STC) Assemblies


Test #	Description	STC
 RAL-TL87-106	Single wood studs 24" o.c., single layer 1/2" type X gypsum board each side, 1 1/2" Sound-Pruf™ in stud cavities.	45
 RAL-TL87-107	Single wood studs 24" o.c., Single layer 1/2" type X gypsum board on one side, single layer 5/8" type X gypsum board on opposite side, stud cavities filled with Sound-Pruf™.	48
 RAL-TL87-108	Single Steel studs 16" o.c., Single layer 1/2" type X gypsum board on one side, single layer 5/8" type X gypsum board on opposite side, stud cavities filled with Sound-Pruf™.	47
 RAL-TL87-109	Single wood studs 16" o.c., Single layer 1/2" type X gypsum board on one side, single layer 5/8" gypsum board on opposite side, stud cavities filled with Sound-Pruf™.	48

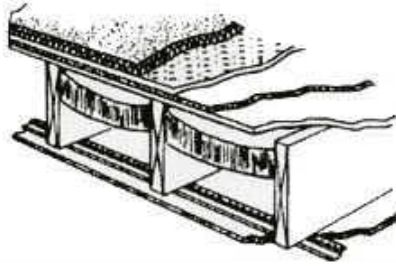
		
RAL-TL87-110	Single steel studs 16" o.c., Single layer 1/2" type X gypsum board on one side, single layer 5/8" type X gypsum board on opposite side, 1 1/2" Sound-Pruf™ in stud cavities	38

		
RAL-TL87-111	Single wood studs 16" o.c., Single layer 5/8" type X gypsum board each side, stud cavities filled with Sound-Pruf™.	42

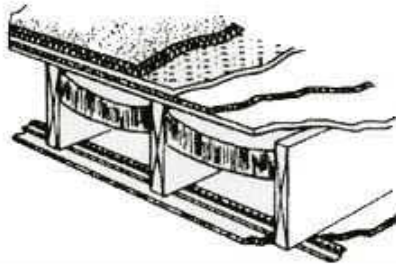
		
RAL-TL87-112	Single steel studs 16" o.c. Single layer 1/2" type X gypsum board each side 1 1/2" Sound-Pruf™ in stud cavities.	43

		
RAL-TL87-113	Single steel studs 16" o.c., Single layer 1/2" type X gypsum board on one side, double layer 1/2" type X gypsum board on opposite side, 1 1/2" Sound-Pruf™ in stud cavities.	45

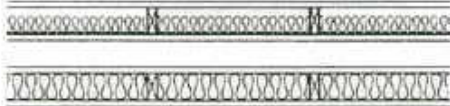
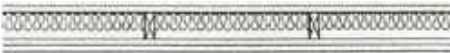

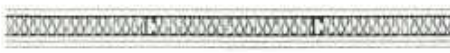
		
RAL-TL87-114	Single wood studs 16" o.c., Single layer 5/8" type X gypsum board on one side, double layer 1/2" type X gypsum board on opposite side, stud cavities filled with Sound-Pruf™.	47



<p>RAL-TL87-115</p>	<p>Floor Panel, single 2" x 10" floor joists 16" o.c., 1/2" waferboard sub-floor, 1/2" particle board main floor, carpet, pad, single layer 5/8" type X gypsum board mounted on resilient channels, 2" Sound-Pruf™ sprayed in joist cavities.</p>	<p>54</p>
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<p>RAL-TL87-116</p>	<p>Floor Panel, single 2" x 10" floor joists 16" o.c., 1/2" waferboard sub-floor, 1/2" particle board main floor, carpet, pad, single layer 5/8" type X gypsum board mounted on resilient channels, 1" Sound-Pruf™ sprayed in joist cavities.</p>	<p>45</p>
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RAL-TL87-117	Double wall, single layer 1/2" type X gypsum board on each side of single wood studs 24" o.c., 1 1/2" Sound-Pruf in stud cavities, 1" air gap, single wood studs 24" o.c., Single layer 1/2" type X gypsum board on one side, single layer 5/8" type X gypsum board on opposite side, stud cavities filled with Sound-Pruf™.	61
		
RAL-TL87-118	Single wood studs 24" o.c., Single layer 1/2" type X gypsum board on one side, single layer 5/8" type X gypsum board on opposite side, stud cavities filled with Sound-Pruf™.	54
		
RAL-TL87-119	Single wood studs 24" o.c., Single layer 1/2" type X gypsum board on resilient channels on one side, single layer 1/2" type X gypsum board on opposite side, 1 1/2" Sound-Pruf™ in stud cavities.	52
		
RAL-TL87-120	Single steel studs 16" o.c., Single layer 5/8" type X gypsum board on one side, single layer 1/2" type X gypsum board mounted on resilient channels on opposite side, stud cavities filled with Sound-Pruf™.	53

Riverbank Acoustical Laboratories - STC results on 1/4" steel panels

	Thickness	Density	STC
RAL-TL96-101	4"	6 / 12 / 6	53
RAL-TL96-102	3"	12 / 6	45
RAL-TL96-103	3"	6 / 12	52
RAL-TL96-104	0"	N/A	39

As requested by the client, transmission loss values were calculated at additional test frequencies. Although the measurements were made in accordance with the procedures described in ASTM E90-90, they do not qualify as part of the standard. Since the results are representative of the test environment only, they are unofficial and intended for research and development guidelines rather than for commercial purposes. The data at the additional frequencies were as follows:

Sound Transmission Loss (dB)

Reference Test Number	1/3 Octave Center Frequency (Hz)					
	50	63	80	6300	8000	10000
RAL-TL96-101	21	23	26	67	69	68
RAL-TL96-102	27	29	30	64	64	60
RAL-TL96-103	28	26	24	66	65	62
RAL-TL96-104	25	24	24	46	48	49