

## ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



<b>TEST DATE</b>	02/26/21				
<b>DATA FILE NO.</b>	M0013.01				
<b>CLIENT</b>	California Expanded Metal Company (CEMCO)				
<b>DESCRIPTION</b>	3-5/8" Steel Studs spaced 24"OC with RC1-XD Resilient Channel on Interior spaced 12" OC, One Layer 5/8" USG Type X Source (screw spacing 8" on perimeter 12" in the field) / Two Layer 5/8" USG Type X Receive (screw spacing 12"OC)				
<b>SPECIMEN AREA</b>	13.01 m <sup>2</sup>	<b>RECEIVE TEMP.</b>	19.2 °C	<b>SOURCE TEMP</b>	19.2 °C
<b>TECHNICIAN</b>	Marco T Sant	<b>RECEIVE HUMIDITY</b>	43%	<b>SOURCE HUMIDIT</b>	43%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m <sup>2</sup> )	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	40.5	5.4	101	85	20	1.87	-
100	34.6	4.5	102	80	27	1.29	-
125	42.5	5.0	103	71	36	0.99	5
160	44.8	4.9	103	67	40	1.01	4
200	38.3	6.0	106	65	45	0.56	2
250	30.8	7.2	106	59	50	0.61	0
315	33.1	7.2	106	55	53	0.38	0
400	38.3	6.0	106	53	56	0.48	0
500	24.4	5.3	106	51	60	0.58	0
630	21.0	5.8	106	49	61	0.35	0
800	24.1	6.2	105	45	63	0.26	0
1000	16.7	6.3	107	45	66	0.24	0
1250	15.4	6.4	106	43	65	0.22	0
1600	6.6	6.9	103	42	64	0.24	0
2000	4.0	8.2	101	48	55	0.21	6
2500	3.8	9.3	101	49	54	0.21	7
3150	4.0	10.6	100	43	58	0.17	3
4000	4.7	13.0	97	36	61	0.28	0
5000	5.5	16.9	93	28	64	0.38	-
<b>STC RATING</b>	57 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	27 (Sum of Deficiencies)						
<b>OITC RATING</b>	38 (Outdoor-Indoor Transmission Class)						

- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
  - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
  - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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