

## ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



<b>TEST DATE</b>	03/03/21				
<b>DATA FILE NO.</b>	M0016.01				
<b>CLIENT</b>	California Expanded Metal Company (CEMCO)				
<b>DESCRIPTION</b>	3-5/8" Steel Studs spaced 16"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) / One 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>	18.5 °C	<b>SOURCE TEMP</b>	18.2 °C
<b>TECHNICIAN</b>	Marco T Sant	<b>RECEIVE HUMIDITY</b>	43%	<b>SOURCE HUMIDIT</b>	44%

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	36.1	8.5	101	89	13	1.85	-
100	34.3	6.0	101	86	18	1.11	-
125	44.7	5.5	102	78	28	0.99	7
160	43.9	5.1	103	73	34	0.88	4
200	37.0	6.2	106	71	39	0.60	2
250	28.6	6.9	107	65	44	0.61	0
315	29.4	7.1	106	59	49	0.46	0
400	34.0	5.9	106	56	53	0.60	0
500	21.3	5.3	106	54	56	0.60	0
630	19.5	5.7	106	51	59	0.32	0
800	22.7	5.8	105	47	62	0.22	0
1000	14.4	6.0	107	47	63	0.36	0
1250	13.2	6.1	105	45	63	0.28	0
1600	7.9	6.7	103	46	60	0.18	0
2000	6.3	8.2	101	55	48	0.27	7
2500	5.9	9.4	101	55	47	0.20	8
3150	5.8	10.9	100	50	51	0.14	4
4000	5.8	13.7	97	41	56	0.22	0
5000	6.2	17.9	93	32	59	0.35	-
<b>STC RATING</b>	51 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	32 (Sum of Deficiencies)						
<b>OITC RATING</b>	31 (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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