

## ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



<b>TEST DATE</b>	02/26/21				
<b>DATA FILE NO.</b>	M0014.01				
<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, Two 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>	19.4 °C	<b>SOURCE TEMP</b>	18.6 °C
<b>TECHNICIAN</b>	Marco T Sant	<b>RECEIVE HUMIDITY</b>	44%	<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	38.3	4.5	103	80	28	2.08	-
100	34.9	4.5	102	72	34	1.22	-
125	41.1	4.7	103	67	41	0.88	5
160	44.8	4.9	103	63	45	0.92	4
200	38.8	6.1	106	60	50	0.57	2
250	31.1	7.2	107	56	54	0.56	1
315	34.3	7.0	106	52	57	0.49	1
400	39.8	6.0	106	50	59	0.55	2
500	24.8	5.4	106	48	62	0.42	0
630	21.9	5.9	106	46	64	0.36	0
800	24.9	6.1	105	43	66	0.34	0
1000	18.0	6.2	107	42	67	0.12	0
1250	16.1	6.4	105	41	67	0.19	0
1600	6.8	7.0	103	39	67	0.19	0
2000	4.5	8.2	101	44	59	0.19	7
2500	3.8	9.3	101	43	59	0.19	7
3150	4.0	10.7	100	38	63	0.22	3
4000	4.7	13.3	97	30	66	0.26	0
5000	5.5	17.1	92	22	70	0.26	-
<b>STC RATING</b>	62 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	32 (Sum of Deficiencies)						
<b>OITC RATING</b>	45 (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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