

## ASTM E90 AIRBORNE SOUND TRANSMISSION LOSS



<b>TEST DATE</b>	02/26/21				
<b>DATA FILE NO.</b>	M0012.01				
<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) / 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>	18.8 °C	<b>SOURCE TEMP</b>	18.7 °C
<b>TECHNICIAN</b>	Marco T Sant	<b>RECEIVE HUMIDITY</b>	46%	<b>SOURCE HUMIDIT</b>	49%

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	39.9	8.4	101	91	12	1.82	-
100	36.0	6.0	101	84	20	1.08	-
125	44.3	5.3	103	76	30	0.90	5
160	44.5	5.3	102	72	34	0.99	4
200	38.6	6.5	106	70	39	0.65	2
250	30.9	7.2	107	64	45	0.60	0
315	33.5	7.1	106	60	49	0.32	0
400	38.7	5.9	105	56	52	0.61	0
500	23.9	5.3	106	54	56	0.50	0
630	20.7	5.7	106	51	59	0.35	0
800	23.5	5.9	105	48	61	0.17	0
1000	16.3	5.9	107	48	62	0.23	0
1250	15.1	6.2	105	47	62	0.27	0
1600	6.8	6.7	103	47	59	0.24	0
2000	4.5	8.1	101	55	48	0.34	7
2500	3.9	9.2	101	56	47	0.23	8
3150	4.1	10.6	100	50	51	0.12	4
4000	4.7	13.2	97	41	56	0.14	0
5000	5.5	17.0	93	32	60	0.39	-
<b>STC RATING</b>	51 (Sound Transmission Class)						
<b>DEFICIENCIES</b>	30 (Sum of Deficiencies)						
<b>OITC RATING</b>	30 (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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