

Acoustical Testing on Identical Gymnasiums with Tectum™ III Roof Deck and Steel Roof Deck

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Tests were conducted by Niemoeller Associates inc. on three school gymnasiums of equal dimensions and construction for the roof deck products. The results are as follows:

Gymnasium I - Mark Twain School

4,000 square feet perforated metal roof deck

Frequency	125	250	500	1000	2000	4000	NRC
Per Iso (20) data	0.3	0.51	0.38	0.28	0.57	0.81	0.45
Per Iso (30) data	0.23	0.59	0.43	0.32	0.66	0.83	0.50

Overall NRC 0.45 Published Lab Results NRC 0.85

Gymnasium II - Gundlach School

4,000 square feet perforated metal deck with 90 1" x 2' x 4' hanging baffles.

Frequency	125	250	500	1000	2000	4000	NRC
Per Iso (20) data	0.39	0.59	0.42	0.39	0.67	0.82	0.50
Per Iso (30) data	0.44	0.69	0.48	0.43	0.91	1.00	0.60

Overall NRC 0.55 Published Lab Results NRC 1.00

Gymnasium III - Cupples School

4,000 square feet TECTUM III Roof Deck

Frequency	125	250	500	1000	2000	4000	NRC
Per Iso (20) data	0.25	0.38	0.33	0.28	0.76	1.18	0.45
Per Iso (30) data	0.26	0.43	0.35	0.31	0.94	1.34	0.50

Overall NRC 0.45 Published Lab Results NRC 0.55

Complete test data available upon request.