

Material		Thickness Inches	Surface Area Weight lbs/ft ²	Transmission Loss, dB	
Wood	Pine	0.500	1.5	16	
		2.000	6.2	23	
	Redwood	0.500	1.1	16	
		2.000	4.3	23	
	Cedar	0.500	1.1	15	
		2.000	4.3	22	
Metal	Aluminum	0.060	0.9	23	
		0.250	3.6	27	
	Steel	0.030	1.3	15	
		0.060	2.6	22	
	Concrete	light weight	4.000	40	36
			6.000	60	39
	Sand-Gravel	4.000	48	40	
Masonry	Concrete Block	3.600	22	32	
		5.600	33	36	
	Clay Brick	3.600	36	40	
		5.600	56	47	
Vinyl	7/8" T&G board	0.875		22	

Thickness Surface Area Weight Transmission
Material Inches (mm) lbs/ft² (kg/m²) Loss, dB

0.5 (12.7) 1.5 (7.3) 16
2.0 (50.8) 6.2 (30.3) 23
Redwood 0.5 (12.7) 1.1 (5.4) 16
2.0 (50.8) 4.3 (21.0) 23
Cedar 0.5 (12.7) 1.1 (5.4) 15
2.0 (50.8) 4.3 (21.0) 22
Metal
Aluminum 0.06 (1.5) 0.9 (4.4) 23
0.25 (6.4) 3.6 (17.6) 27
Steel 0.03 (0.8) 1.3 (6.4) 15
0.06 (1.5) 2.6 (12.7) 22
Concrete
Light Weight 4.0 (101.6) 40 (195.3) 36
6.0 (152.4) 60 (293.0) 39
Sand-Gravel 4.0 (101.6) 48 (234.4) 40
Masonry
Concrete Block 3.6 (91.4) 22 (107.4) 32
5.6 (142.2) 33 (161.1) 36
Clay Brick 3.6 (91.4) 36 (175.8) 40
5.6 (142.2) 56 (273.4) 47

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		5.6 (142.2)	47