

## Sterling Athletic Rubber Tile 1.25 inch Acoustical Complete Testing Results

Overview test results on noise reduction. Reports made by Riverbank Acoustical Laboratories available on request.

dB-A noise reduction ( Impact Noise by Kettlebells dropping on tiles). Numbers shown is the difference in sound between dropping the weights on concrete or on the tiles presented In the change of SPL. The higher the number the better the tile performs.

24,5 lbs - 36 inch 11.11 kg - 91 cm.	24,5lbs - 60inch 11.11kg - 152 cm.	54.5lbs - 36 inch 24,72kg - 91 cm.	54.5lbs - 60 inch 24,72kg - 152 cm.
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### Thickness

1.25 inch - 3.18 cm.	26,8	22	21,5	19,5
2 inch - 5.08 cm.	34,4	30,8	31,6	26,6
2.75 inch - 6.98 cm.	41,7	38,8	40,6	35,8
3.25 inch - 8.26 cm.	38,4	38	41,7	37,3

Data overview ISO 10140-3 Impact Sound Insulation measured by the `Tapping machine` presented in dB. A tapping machine drops weights of only 500 grams from 40 mm. height only.

	$\Delta L_w$	$\Delta I_{in}$	$L_{n,w}$	$L_{n,r,w}$	
1.25 inch - 3.18 cm.		23	12	51	55
2 inch - 5.08 cm.		25	14	49	53
2.75 inch - 6.98 cm.		26	14	48	52
3.25 inch - 8.26 cm.		28	16	48	50

Data overview ISO 10140-2 Airborne Sound Insulation : measuring the sound reduction of airborne sound going through the tiles.

Rw : weighted Sound Reduction Index = SRI

1.25 inch - 3.18 cm.	55
2 inch - 5.08 cm.	53
2.75 inch - 6.98 cm.	54
3.25 inch - 8.26 cm.	55

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Data overview ASTM E90 :  
Airborne Sound Transmission.

Data overview ASTM E492 :  
Impact Sound Transmission.

STC = Sound Transmission Class

IIC = Impact Insulation Class

1.25 inch - 3.18 cm.	55	1.25 inch - 3.18 cm.	56
2 inch - 5.08 cm.	53	2 inch - 5.08 cm.	57
2.75 inch - 6.98 cm.	54	2.75 inch - 6.98 cm.	57
3.25 inch - 8.26 cm.	55	3.25 inch - 8.26 cm.	55

Data overview ASTM E2179 : Effectiveness in Floor Coverings.

$\Delta$ IIC = Increase in Impact Insulation Class

$\Delta$ Lw = weighted Reduction of  
impact Sound Pressure level

1.25 inch - 3.18 cm.	26	23
2 inch - 5.08 cm.	28	25
2.75 inch - 6.98 cm.	28	26
3.25 inch - 8.26 cm.	27	28

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