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Overview acoustical properties based on Riverbank Acoustical Laboratories reports.

DuraTrain 3.18 cm.



Standard tests :

ASTM :

Report TL15-502 : Sound Transmission Loss test over a 15,24 cm. concrete slab.

STC = 55 (Sound Transmission Class , airborne sound)

Report IN15-069 : Impact Sound Transmission test over a 15,24 cm. concrete slab.

IIC = 56 (Impact Insulation Class , measured with tapping machine)

Report IFC15-026 : Effectiveness of floor coverings in reducing impact sound transmission over a 15,25 cm. concrete slab.

Δ IIC = 26 (Increase in impact insulation class)

IICc = 54 (Impact insulation class IIC c for L ref,c)

ISO 10140-3:2010 :

Report IN15-070_ISO : Measurement of impact sound insulation by tapping machine.

Δ Llin = 12 dB

Δ Lw = 23 dB

Non Standard tests :

Report AN15-010 : Nonstandard heavy weight drop tests done over a 15,24 cm. concrete slab.

Difference between Average Impact Sound Levels of bare Slab and Slab with 3.18 DuraTrain in 1/3 Octave Bands

Kettlebell	Drop height	dBA on bare slab	dBA on slab with tiles	dBA difference
11,11 kg.	91,4 cm.	106	79.2	- 26.8
11,11 kg.	152,4 cm.	108.1	87.3	- 21.5
24,94 kg.	91,4 cm.	108.8	86	- 22
24,94 kg.	152,4 cm.	111.2	91.7	- 19.5

Contact us for full reports. Most results are weighted results and our products especially perform very well at low frequencies.

DuraSound 5.08 cm.



Standard tests :

ASTM :

Report TL18-374 : Sound Transmission Loss test over a 15,24 cm. concrete slab.

STC = 54 (Sound Transmission Class , airborne sound)

Report IN18-032 : Impact Sound Transmission test over a 15,24 cm. concrete slab.

IIC = 62 (Impact Insulation Class , measured with tapping machine)

Report IFC18-008 : Effectiveness of floor coverings in reducing impact sound transmission over a 15,25 cm. concrete slab.

Δ IIC = 27 (Increase in impact insulation class)

IICc = 55 (Impact insulation class IIC c for L ref,c)

ISO 10140-3:2010 :

Report IN18-034_ISO : Measurement of impact sound insulation by tapping machine.

Δ Llin = 14 dB

Δ Lw = 26 dB

Non Standard tests :

Report AN18-006 : Nonstandard heavy weight drop tests done over a 15,24 cm. concrete slab.

Difference between Average Impact Sound Levels of bare Slab and Slab with 5.08 DuraSound in 1/3 Octave Bands

Kettlebell	Drop height	dBA on bare slab	dBA on slab with tiles	dBA difference
11,11 kg.	91,4 cm.	106	68.3	- 37,7
11,11 kg.	152,4 cm.	108.1	72.8	- 35.3
24,94 kg.	91,4 cm.	108.8	73.6	- 35.2
24,94 kg.	152,4 cm.	111.2	79.4	- 31.8

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DuraSound 6.98 cm.

Standard tests :

ASTM :

Report TL18-372 : Sound Transmission Loss test over a 15,24 cm. concrete slab.
STC = 57 (Sound Transmission Class , airborne sound)

Report IN18-030 : Impact Sound Transmission test over a 15,24 cm. concrete slab.
IIC = 64 (Impact Insulation Class , measured with tapping machine)

Report IFC18-007 : Effectiveness of floor coverings in reducing impact sound transmission over
a 15,25 cm. concrete slab.

Δ IIC = 28 (Increase in impact insulation class)

IICc = 56 (Impact insulation class IIC c for L ref,c)

ISO 10140-3:2010 :

Report IN18-031_ISO : Measurement of impact sound insulation by tapping machine.

Δ Llin = 14 dB

Δ Lw = 25 dB

Non Standard tests :

Report AN18-007 : Nonstandard heavy weight drop tests done over a 15,24 cm. concrete slab.

Difference between Average Impact Sound Levels of bare Slab and Slab with 6.98 cm. DuraSound in
1/3 Octave Bands

Kettlebell	Drop height	dBA on bare slab	dBA on slab with tiles	dBA difference
11,11 kg.	91,4 cm.	106	69	- 37
11,11 kg.	152,4 cm.	108.1	73.2	- 34.9
24,94 kg.	91,4 cm.	108.8	70.6	- 38.2
24,94 kg.	152,4 cm.	111.2	75.2	- 36

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DuraSound 8.26 cm.

Standard tests :

ASTM :

Report TL18-376 : Sound Transmission Loss test over a 15,24 cm. concrete slab.

STC = 57 (Sound Transmission Class , airborne sound)

Report IN18-032 : Impact Sound Transmission test over a 15,24 cm. concrete slab.

IIC = 67 (Impact Insulation Class , measured with tapping machine)

Report IFC18-009 : Effectiveness of floor coverings in reducing impact sound transmission over a 15,25 cm. concrete slab.

Δ IIC = 28 (Increase in impact insulation class)

IICc = 56 (Impact insulation class IIC c for L ref,c)

ISO 10140-3:2010 :

Report IN18-031_ISO : Measurement of impact sound insulation by tapping machine.

Δ Llin = 14 dB

Δ Lw = 27 dB

Non Standard tests :

Report AN18-005 : Nonstandard heavy weight drop tests done over a 15,24 cm. concrete slab.

Difference between Average Impact Sound Levels of bare Slab and Slab with 8.26 DuraSound in 1/3 Octave Bands

Kettlebell	Drop height	dBA on bare slab	dBA on slab with tiles	dBA difference
11,11 kg.	91,4 cm.	106	66.6	- 39.4
11,11 kg.	152,4 cm.	108.1	67.9	- 40.2
24,94 kg.	91,4 cm.	108.8	68.6	- 40.2
24,94 kg.	152,4 cm.	111.2	74.8	- 36.4

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