



Impact sound insulation according ISO 10140-3

TS

20-001067-01

Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight reference floor

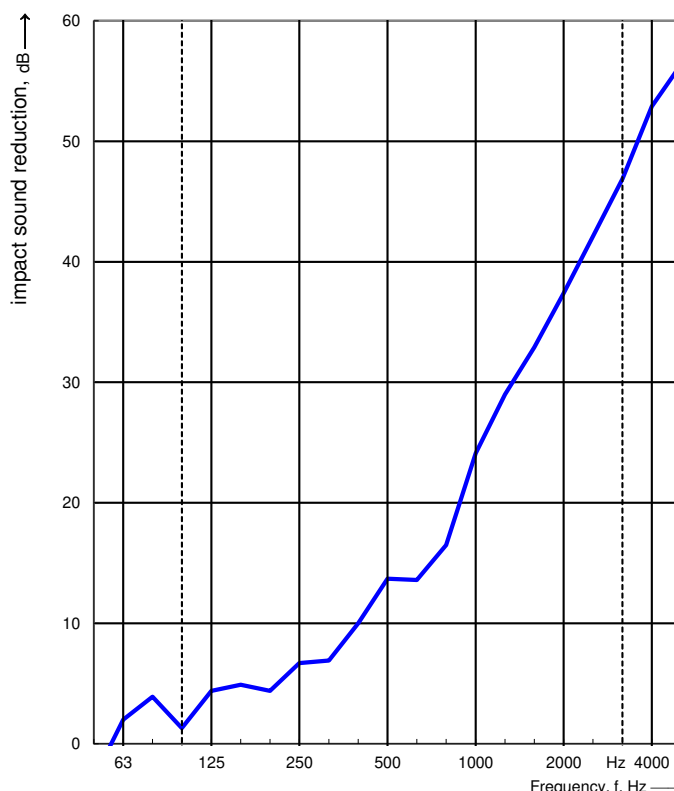
Annex TS – Impact sound insulation

TFI sample number:	2001596	Testing period:	26.10.2020
Product designation:	BodiAx Hydro-core clic LVT	Installation:	26.10.2020
Installed by:	TFI Aachen GmbH		
Size of test area:	11 m ²		
Connection with the floor:	loosely laid		
Category:	II		
Construction:			
(from top to bottom)			

Receiving room:		Sending room:	
Volume:	62,3 m ³	Volume:	62,3 m ³
Air temperature:	18,6 °C	Air temperature:	18,6 °C
Relative air humidity:	66,2 %	Relative air humidity:	66,2 %
Air pressure:	98,5 kPa	Type of reference floor:	Heavyweight

Frequency f [Hz]	L _{n,0} 1/3 oct. [dB]	ΔL 1/3 oct. [dB]
50	51,0	-2,9
63	60,1	2,0
80	58,9	3,9
100	54,3	1,3
125	63,0	4,4
160	70,2	4,9
200	67,7	4,4
250	71,7	6,7
315	69,6	6,9
400	69,6	10,0
500	70,6	13,7
630	69,7	13,6
800	69,7	16,5
1000	70,1	24,1
1250	70,7	29,0
1600	70,9	32,9
2000	71,4	37,4
2500	71,2	42,1
3150	70,9	46,9
4000	70,2	52,9
5000	68,2	56,4

Frequency for rating according to ISO 717-2



Evaluation according to ISO 717-2

$\Delta L_w = 21 \text{ dB}$

$C_{l,\Delta} = -11 \text{ dB}$

$C_{l,r} = 0 \text{ dB}$

$\Delta L_{LIN} = 10 \text{ dB}$

Measurements in one-third octaves.

The results are based on measurements, which were performed under laboratory conditions with artificial excitation (standard procedure).