

Annex TS – Impact Sound Insulation

1 Procedure

Sample designation MAJESTIC
TFI reference number 10-10-0078
Testing period 27.10.2010

The product identification characteristics can be found on the first page of the test report, respectively in annex KM.

2 Test method

Impact sound transmission according to EN ISO 140-8:1998.

The standard describes a method to measure the impact sound absorption of floor coverings at laboratory conditions, by means of a standardised hammer device.

3 Remarks

Additionally, the calculated value according to EN ISO 717-2:1997 is indicated.

The test was carried out by a subcontractor.

4. Test results

Enclosure TS

Impact sound insulation of ISO 140-8 : 1998 - 03

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Measurement of impact sound insulation by a floor covering - on a solid strings-floor

Tested material: **article: MAJESTIC**

Test rooms: 02 u. K2, Hauptstraße 133, 52 477 Alsdorf

Test area: 4,24 m x 4,15 m Test area of slab

Date of test: 26.10.2010

Description of the test material:

Total thickness: **8,8 mm**

Mass / area: **2,37 kg/m²**

laid loose on a 140 mm thick reinforced concrete floor slab. Test material: 4 x 1m x 1m

The results are based on tests, which were effected with on artificial source of sound by labratory conditions.

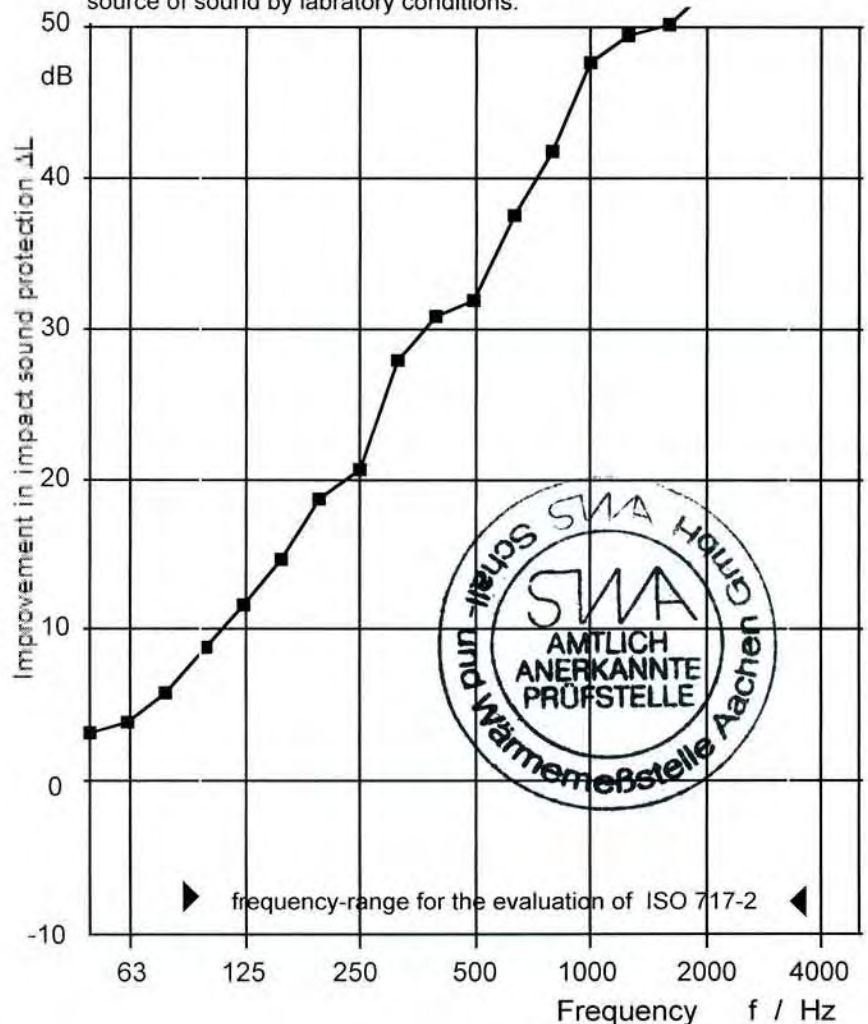
Receiving room:

Volume: 58,9 m³

Temperature: 20 °C

Humidity: 65 %

Frequency	Ln	ΔL
Hz	Bare floor dB	dB
50		3,3
63		4,0
80		6,0
100	61,0	8,9
125	61,4	11,8
160	64,8	14,7
200	63,7	18,7
250	65,4	20,7
315	65,6	27,9
400	66,1	30,9
500	66,0	31,9
630	66,4	37,6
800	66,3	41,8
1000	66,2	47,5
1250	66,6	49,3
1600	67,2	50,2
2000	67,1	52,4
2500	67,0	---
3150	66,4	---
4000		---
5000		---



Reception filter: third-octave

Calculation according ISO 717-2:

Impact sound improvement index	non rated reduction of impact sound insulation	$C_{l,\Delta} = -13 \text{ dB}$
$\Delta L_w = 33 \text{ dB}$	$\Delta L_{lin} = \Delta L_w + C_{l,\Delta}$	$C_{l,r} = 2 \text{ dB}$
$(VM = 33 \text{ dB})$	$\Delta L_{lin} = 20 \text{ dB}$	$C_{l,r,50-2500} = 9 \text{ dB}$

Test report no.:

401 637

Aachen

27.10.2010

SWA Schall- und Wärmemeßstelle Aachen GmbH

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