Schall- und Wärmemessstelle Aachen GmbH

Schallschutzprüfstelle VPMA · Zertifiziert
Güteprüfungen · Eignungsprüfungen · ABP

Staatlich anerkannte Sachverständige für den
Schallschutz und Wärmeschutz · IK-Bau NRW

Blower Door Messungen · Gebäudethermografie ·
Energieberatung · EnEV-Nachweise Wohn-
gebäude · EnEV-Nachweise Nicht-Wohngebäude

Geschäftsführer:
Dr.-Ing. Lothar Siebel
Dipl.-Ing. Bernd Gebing

Steuer-Nr. 201/5992/3795
USt.-IdNr. DE123595587

Aachen, 25.06.2019

Report No.: A-2019-133

Delta Impact Insulation Class according ASTM E 2179

Calculation of impact sound from ISO to ASTM standard

Product name: **Linoleum, Jumpax Basic, HeatBlok**

Original report: **A 3085-1E-RA**

Applicant:

Unifloor Underlay Systems
Arnsbergstraat 4
7418 EZ Deventer
Netherlands

(Dr.-Ing. A. Siebel)

Number of pages: 2 pages and 3 supplement

1 Test

Delta Impact Insulation Class according ASTM E 2179

Calculation of impact sound from ISO to ASTM standard

2 Annex

Calculation - Delta Impact Insulation Class according ASTM E 2179

Original Report

Delta Impact Insulation Class according ASTM E 2179

Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floor

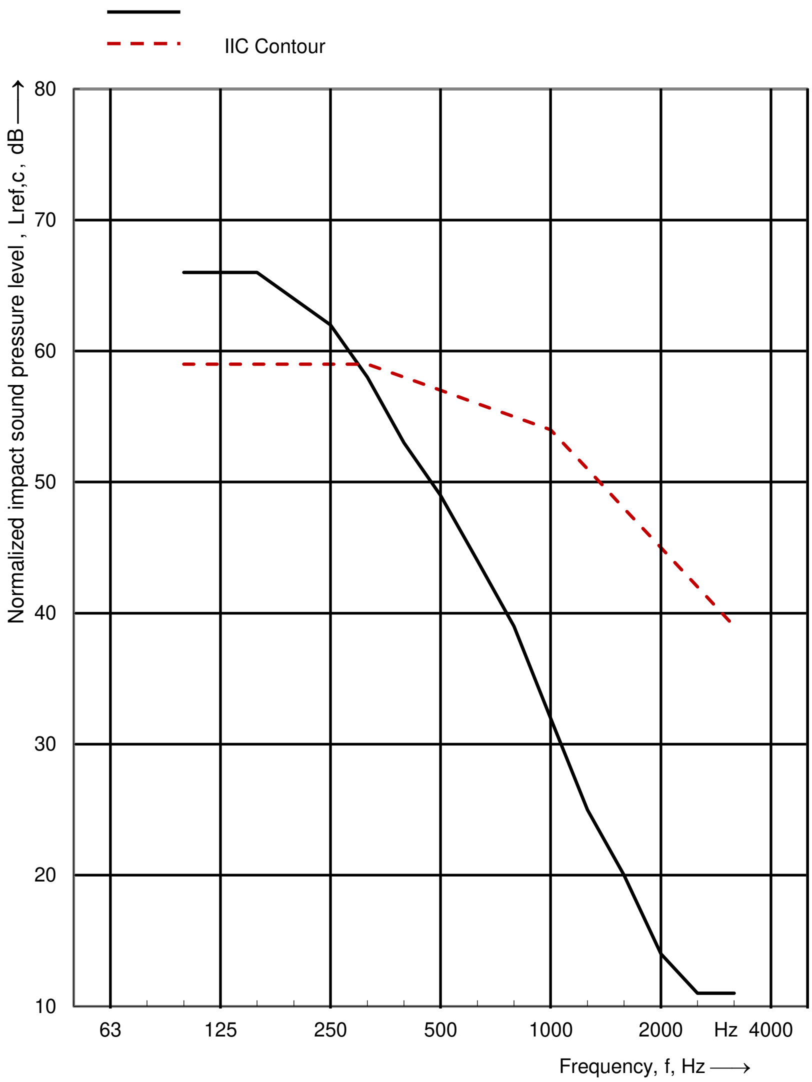
Product name: Linoleum, Jumpax Basic, HeatBlok

Installed by: compare original report

Construction: compare original report
(from top to bottom)

$L_{ref,c} = L_{ref} - L_d$

Frequency f [Hz]	Lref,c 1/3 octave [dB]
50	-
63	-
80	-
100	66
125	66
160	66
200	64
250	62
315	58
400	53
500	49
630	44
800	39
1000	32
1250	25
1600	20
2000	14
2500	11
3150	11
4000	-
5000	-



Increase in Impact Insulation Class ΔIIC = 25 dB
Measurement according DIN EN ISO 10140
Evaluation according ASTM E 2179 / ASTM E 989

Report no.: A-2019-133

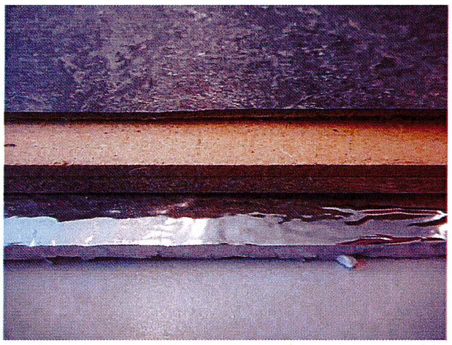
Schall- und Wärmemessstelle Aachen GmbH

DETERMINING THE REDUCTION OF TRANSMITTED IMPACT NOISE BY FLOOR COVERINGS ACCORDING TO ISO 10140-3:2010

TESTING RvA L 334

principal: Unifloor Underlay Systems

Variant	Underlayer (described from the laboratory floor)			Topfloor
5	HeatBlok	Jumpax Basic		Linoleum



volume measuring room: 94 m^3

measured at:
Peutz Laboratory for Acoustics

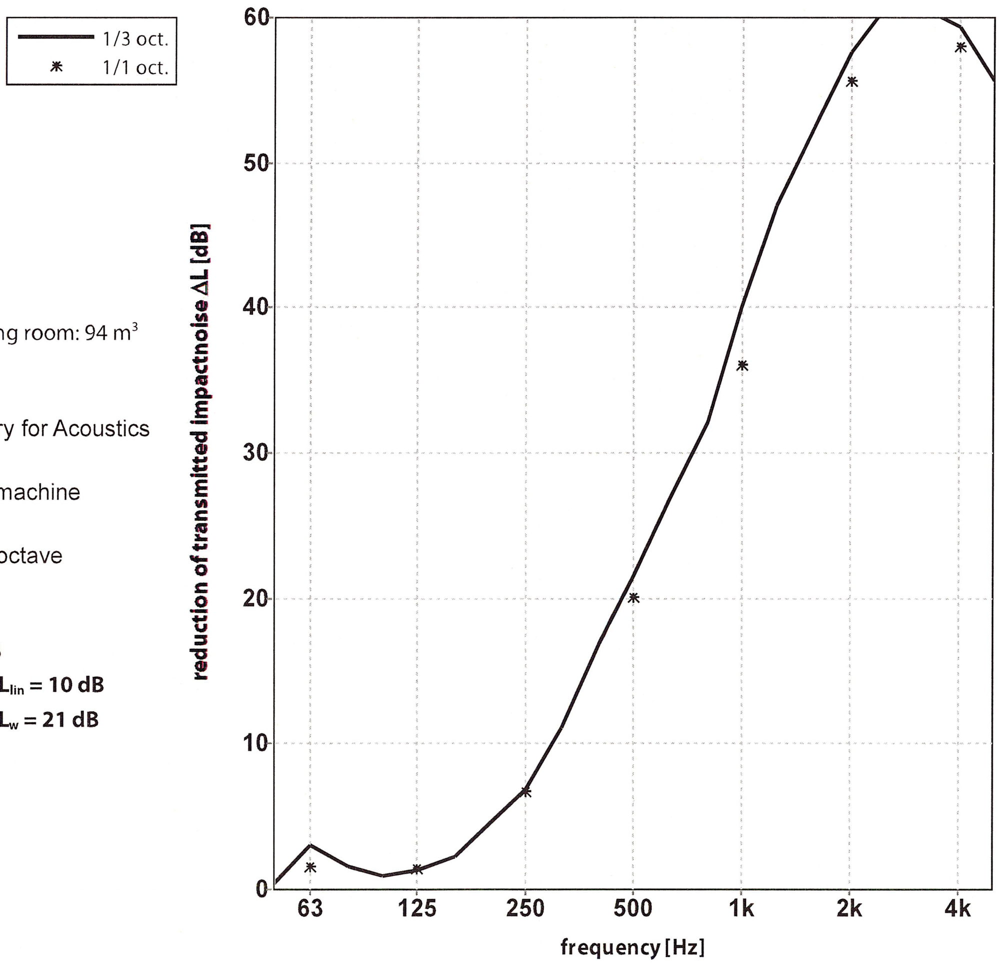
signal: tapping machine

bandwidth: 1/3 octave

ISO 717-2:2013

ΔL_{lin} = 10 dB

ΔL_w = 21 dB



	63	125	250	500	1k	2k	4k	
	0,4	0,9	4,6	16,9	32,1	52,5	60,6	
1/3 oct.	3,1	1,3	6,9	21,5	40,2	57,6	59,3	dB
	1,6	2,3	11,1	26,8	47,1	60,8	55,6	
1/1 oct.	**1,6**	**1,5**	**6,8**	**20,1**	**36,1**	**55,6**	**58,0**	**dB**

publication is permitted for the entire page only

Mook, 25-03-2016

Insulat versie 3.18 mode 11. PM: JK. file: a3085 L0#:26 L1#:51 ##:52