TFI Report 442093-32

impact sound insulation

Report established for

Uzin Utz AG
Dieselstraße 3
89079 Ulm
GERMANY

Product

Underlayer
UZIN RR 188

This report includes 2 pages and 1 annex(es)
This report is a translation of report no. 442093-28.

Responsible at TFI

-Senior Engineer-
Dr.-Ing. Heike Kempf
Tel: +49 241 9679 171
h.kempf@tfi-aachen.de

Aachen, 07.11.2018

Dr. Alexander Siebel
- Head of the testing laboratory -

The present document is provided with an advanced electronic signature

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.

1 Transaction

Test order	Impact sound insulation according to EN ISO 10140-1
Order date	10.12.2014
Your reference	F. Dylewski
Product designation	UZIN RR 188
TFI sample number	14-12-0351

2 Product Specification

Description	underlay loose laid to the concrete floor
Material	PU foam with cork
Thickness	3 mm*
Area density	1,35 kg/m²*

*customer information

3 Results

Impact sound insulation	ΔL_w = 16 dB

4 Annexes

Impact sound insulation	TS 442093-32

The annexes marked [a] are based on tests accredited in accordance with EN ISO/IEC 17025.

Notified Body
No. 1658

Testing laboratory,
inspection and certification
body recognised by the DIBt
(Deutsches Institut für Bautechnik)

TFI Aachen GmbH
Charlottenburger Allee 41
52068 Aachen · Germany
www.tfi-aachen.de

HRB 8157 Aachen
VAT No. DE209411312
Managing Director
Dr.-Ing. Bayram Aslan

Annex TS - Impact Sound Insulation

1 Transaction

Product designation	UZIN RR 188
TFI sample number	14-12-0351
Testing period	29.12.2014

2 Test Method / Requirements

EN ISO 10140-3:2010	Laboratory measurement of sound insulation of building elements – Part 3: Measurement of impact sound insulation
Deviations	None
EN ISO 717-2:2013	Rating of sound insulation in buildings and of building elements – Part 2: Impact sound insulation
Deviations	None

3 Results

cf. p. 2

Notified Body
No. 1658

Testing laboratory,
inspection and certification
body recognised by the DIBt
(Deutsches Institut für Bautechnik)

TFI Aachen GmbH
Charlottenburger Allee 41
52068 Aachen · Germany
www.tfi-aachen.de

HRB 8157 Aachen
VAT No. DE209411312
Managing Director
Dr.-Ing. Bayram Aslan

Impact sound insulation according ISO 10140-1

Measurment of impact sound insulation by a floor covering on a solid concrete floor

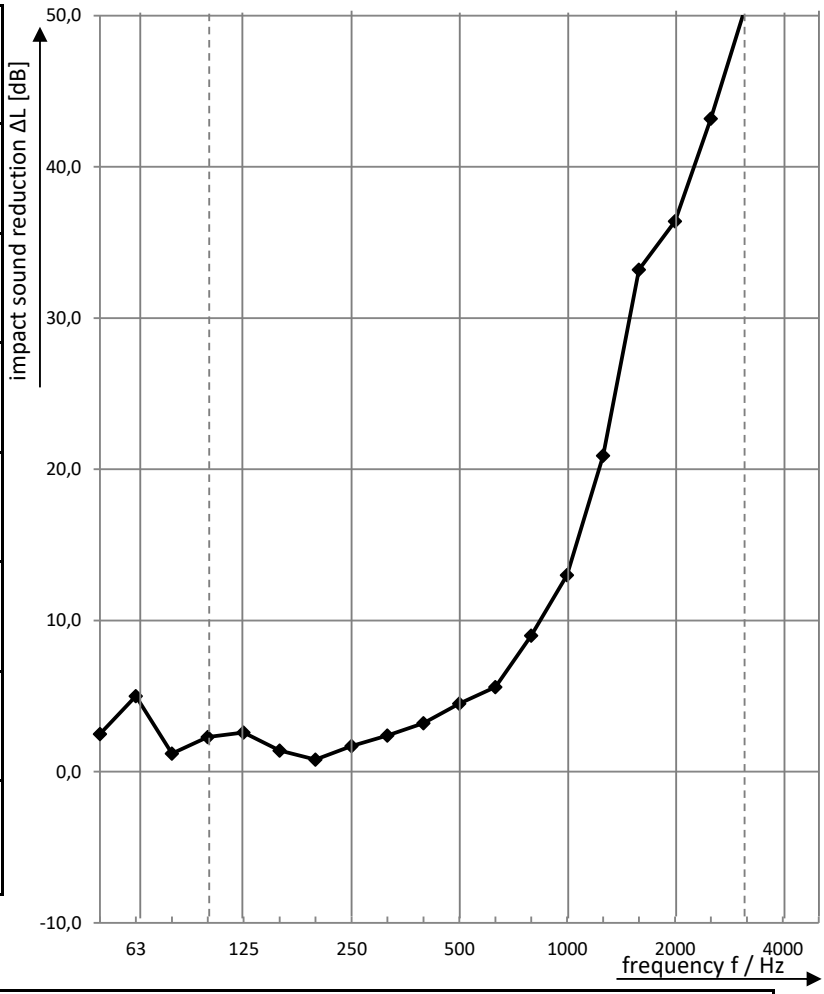
Product name	**UZIN RR 188**
TFI sample number	14-12-0351
Construction (from top to bottom)	UZIN RR 188

Category	I according to ISO 10140
Installation	loose laid
Setting time	-
Installed by	laboratory

Reference floor	solid concrete floor
Note	-
Testing period	29.12.2014

	ϴ [°C]	r.h. [%]
in the source room	20,1	53
in the receiving room	19,4	54

Frequency f **[Hz]**	$L_{n,0}$ third-octave **[dB]**	**ΔL** third-octave **[dB]**
50	56,5	2,5
63	62,7	5,0
80	57,4	1,2
100	57,2	2,3
125	67,5	2,6
160	62,6	1,4
200	64,1	0,8
250	67,1	1,7
315	65,3	2,4
400	64,7	3,2
500	65,0	4,5
630	65,3	5,6
800	66,4	9,0
1000	67,8	13,0
1250	67,7	20,9
1600	68,2	33,2
2000	68,8	36,4
2500	68,6	
3150	67,9	
4000	66,9	
5000		



*Airborne noise correction for the measured value

Evaluation according to ISO 717-2

ΔL_w =	**16 dB**	**ΔL_{lin} =**	**6 dB**		
$C_{I,\Delta}$ =	-10 dB	$C_{I,r}$ =	-1 dB	$C_{I,r,50\text{-}2500}$ =	0 dB

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