



## Mfpa Leipzig GmbH

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Research and Testing

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Testing laboratory accredited by DAKKS  
GmbH according to DIN EN ISO/IEC  
17025. The accreditation only applies to  
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### Test Report No. PB 1.5/23-100-1

24 August 2023

No. Copy 1

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**Contracting body:** Scan Underlay  
Ursusvej 16  
8464 Galten  
Denmark

**Task:** Material tests on acoustic under screed isolation  
material according to EN 16354

**Product:** Acoustic Silence 360

**Samples delivery:** 14.08.2023

**Testing period:** August 2023

**Persons in charge:** Stefan Laut, Head of Laboratory  
Dr.-Ing. Stephan Reichel

This report consists of 4 pages.

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## 1 Objectives

MFPA Leipzig GmbH was commissioned by co. Scan Underlay to test the compression behaviour according to DIN EN 16354, A.3.7 / DIN EN 826\* on the material “Acoustic Silence 360”.

On 14 August 2023, five samples (approx. 200 mm x 200 mm x 1 mm) of the material were delivered to MFPA Leipzig GmbH. Further information on the material is not available.

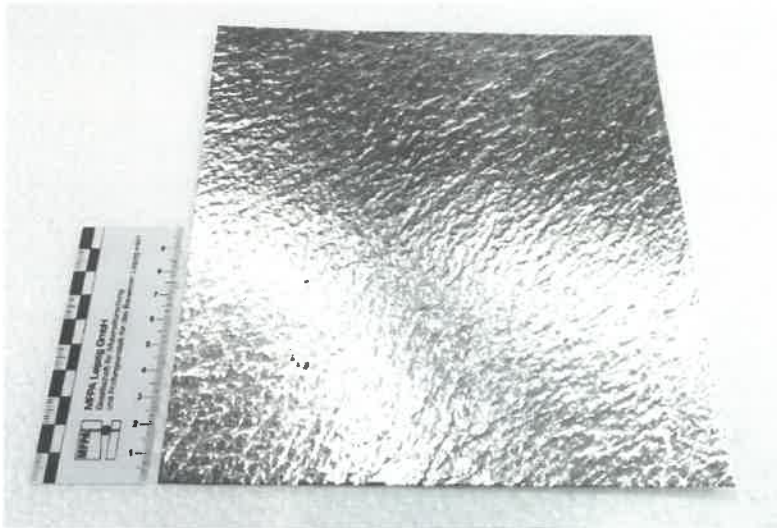


Figure 1: Material sample (Acoustic Silence 360)

## 2 Testing procedure

DIN EN 16354 2019-01	Laminate floor coverings – Underlays – Specification, requirements and test methods; German version EN 16354:2018
DIN EN 826 2013-05	Thermal insulating products for building applications – Determination of compression behavior; German version EN 826:2013

Specimen:	5 samples with dimensions of 200 x 200 mm <sup>2</sup>
Conditioning:	6 hours storing at 23 °C and 50 % r.h.
Initial load:	600 Pa – 1200 Pa
Testing device:	Universal testing machine TT2850, force sensor 20 kN
Parameter:	Compressive stress $\sigma_{0.5}$ at 0.5 mm deformation
Procedure:	According to DIN EN 826, the compressive force is applied perpendicular to the larger surfaces (with a loading plate 100 x 100 mm <sup>2</sup> as described in DIN EN 16354) and increased at a constant feed rate.

### 3 Results

Table 1: Compression behaviour of Acoustic Silence 360

Date of testing: 21.08.2023			
No. [-]	t [mm]	$F_{0.5}$ [kN]	$\sigma_{0.5}$ [kPa]
A	1.00	4.06	406
B	0.99	4.03	403
C	0.99	4.32	432
D	1.01	4.36	436
E	1.01	4.38	438
<b>Mean</b>	<b>1.0</b>	<b>4.23</b>	<b>423</b>

t Thickness at initial load

$F_{0.5}$  Compressive force at 0.5 mm

$\sigma_{0.5}$  Compressive stress at 0.5 mm

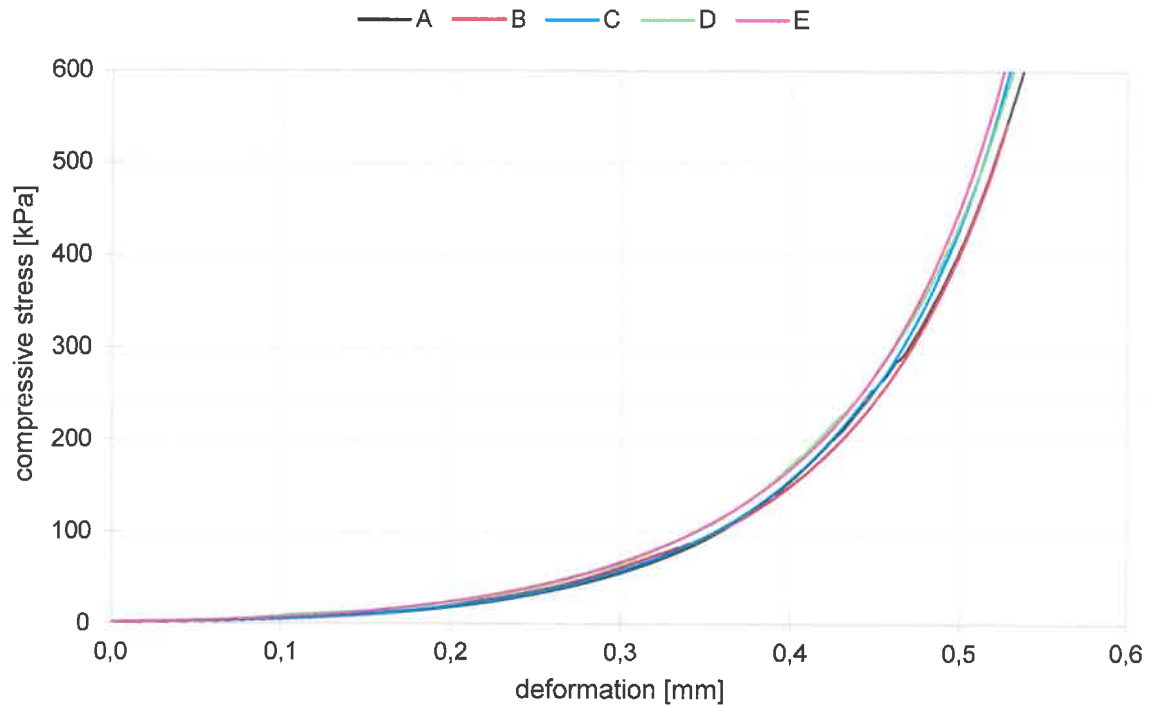
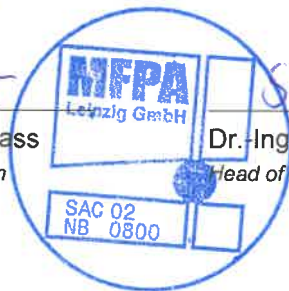


Figure 2: Deformation under compressive stress


The results of the tests exclusively relate to the items tested. This document does not replace a certificate of conformity or suitability according to national and European building codes. The sampling stage/test item production has not been carried out by the laboratory. The results of the test apply to the sample as received.

Leipzig, 24 August 2023

  
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