

# Technical data

**noraplan®** **signa acoustic, surface: smooth**

	Test method	Requirements	Average test results from running production
<b>CE conformity</b>	<b>EN 14 041</b>		<b>Manufacturer: nora systems GmbH, D-69469 Weinheim</b>
DoP-No.	EN 14 041		0017
Thermal conductivity	EN 10 456	$\lambda = 0.17 \text{ W/(m}\cdot\text{K)}$	Fulfilled Suitable for underfloor heating systems
Dynamic coefficient of friction	EN 13 893	DS	Fulfilled
Reaction to fire	EN 13 501-1	Not bonded	C <sub>fl</sub> -s1
Reaction to fire	EN 13 501-1	Bonded on mineral subfloor	B <sub>fl</sub> -s1

## Properties acc. to EN 1816

Thickness	EN ISO 24 346	Mean value $\pm 0.20 \text{ mm}$ acc. to EN 1816	4.0 mm
Dimensional stability	EN ISO 23 999	$\pm 0.4 \%$	$\pm 0.3 \%$
Cigarette-burn resistance	EN 1399	Procedure A (stubbled out) $\geq$ level 4 Procedure B (burning) $\geq$ level 3	Fulfilled
Flexibility	EN ISO 24 344, procedure A	Mandrel diameter 20 mm, no fissuring	Fulfilled
Hardness	ISO 7619	$\geq 75 \text{ Shore A}$ acc. to EN 1816	85 Shore A
Residual indentation	EN ISO 24 343	acoustic: Mean value $\leq 0.25 \text{ mm}$	0.25 mm
Abrasion resistance at 5 N load	ISO 4649, procedure A	$\leq 250 \text{ mm}^3$	130 mm <sup>3</sup>
Colour fastness to artificial light	ISO 105-B02, procedure 3, test conditions 6.1 a)	At least level 6 on the blue scale; $\geq$ level 3 on the grey scale (= 350 MJ/m <sup>2</sup> )	Grey scale $\geq$ level 3 acc. to ISO 105-A02
Classification	EN ISO 10 874	Residential / Commercial / Industrial	23 / 33 / -

## Additional technical properties

Toxicity of fire gases	DIN 53 436		Carbonisation gases are non-toxic
Anti-slip properties	DIN 51 130	Acc. to BGR 181	R 9
	DIN 51 097		-
	BS 7976 TRRL Pendulum		-
	SATRA TM 144		-
Improvement in footfall sound absorption	ISO 10 140-3		20 dB
Effect of chemicals	EN ISO 26 987		Resistant depending on concentration and time of exposure*
Electrical insulation properties	IEC 60 093, VDE 0303 T.30		$> 10^{10} \text{ Ohm}$
Electrical propensity when walked upon	EN 1815		Antistatic, charging in case of rubber soles $< 2 \text{ kV}$
Effect of a castor chair	EN 425		Suitable if castor wheels, type W, acc. to EN 12 529, are used

\* In case of increased impact of oils, grease, acids, alkalis and other aggressive chemicals please contact us.

EN 1816: Specification for homogeneous and heterogeneous smooth elastomer floor coverings with foam backing

Colour variations due to different production batches as well as technical alterations to improve the product have to be accepted.