

Technical data

noraplan®

	Test method	Requirements	Average test results from running production					
			uni 2.0 mm	logic 2.0 mm sigma 2.0 mm stone 2.0 mm mega 2.0 mm	ultra grip 2.0 mm	eco 2.0 mm	sigma 3.0 mm mega 3.0 mm	stone acoustic mega acoustic sigma acoustic
CE conformity	EN 14 041		← Manufacturer: nora systems GmbH, D-69469 Weinheim →					
Dynamic coefficient of friction	EN 13 893	DS	← fulfilled →					
Reaction to fire	EN 13 501-1	not bonded	← C _F s1 →					
Reaction to fire	EN 13 501-1	bonded on mineral subfloor	B _F s1	B _F s1	C _F s1	C _F s1	B _F s1	B _F s1

Properties acc. to EN 1817/EN 14 521

Thickness	EN 428	Mean value without foam backing ± 0.15 mm with foam backing ± 0.20 mm	2.0 mm -	2.0 mm -	2.0 mm -	2.0 mm -	3.0 mm -	- 4.0 mm
Dimensional stability	EN 434	± 0.4 %	← ± 0.3 % →					
Cigarette-burn resistance	EN 1399	Procedure A (stubbed out) level ≥ 4 Procedure B (burning) level ≥ 3	← fulfilled →					
Flexibility	EN 435, procedure A	Mandrel diameter 20 mm, no fissuring	← fulfilled →				-	← fulfilled →
Hardness	ISO 7619	≥ 75 Shore A	94 Shore A	92 Shore A	92 Shore A	95 Shore A	92 Shore A	85 Shore A
Residual indentation	EN 433	Mean value ≤ 0.15 mm at thickness < 2.5 mm	0.05 mm	0.05 mm	0.05 mm	0.06 mm	-	-
		Mean value ≤ 0.20 mm at thickness ≥ 2.5 mm	-	-	-	-	0.05 mm	-
		acoustic: Mean value ≤ 0.25 mm	-	-	-	-	-	0.25 mm
Abrasion resistance	ISO 4649, procedure A	≤ 250 mm ³	200 mm ³	200 mm ³	120 mm ³	230 mm ³	200 mm ³	150 mm ³
Colour fastness to artificial light	EN 20 105-802, procedure 3, test conditions 6.1 a)	at least level 6 on the blue scale; ≥ level 3 on the grey scale (= 350 MJ/m ²)	← grey scale ≥ level 3 acc. to EN 20 105-A 02 →					
Classification	EN 685	Residential/Commercial/Industrial	23/34/42	23/34/42	23/34/42	23/34/42	23/34/43	23/33/-

Additional technical properties

Fire behaviour	DIN 4102		← B1 →					
Toxicity of fire gases	DIN 53 436		← carbonisation gases are non-toxic →					
Anti-slip properties	DIN 51 130	according to BGR 181	R 9	stone: R 10 others: R 9	R 11	R 9	R 9	stone acoustic: R 10 others: R 9
	DIN 51 097		-	stone: A, B	A, B; C	-	-	-
	BS 7976 TRRL Pendulum		-	-	36+ wet & dry	-	-	-
	SATRA TM 144		-	-	wet: > 0.6 dry: > 0.45	-	-	-
Improvement in footfall sound absorption	ISO 140-8		6 dB	6 dB	7 dB	5 dB	8 dB	20 dB
Effect of chemicals	EN 423		← resistant depending on concentration and time of exposure* →					
Thermal conductivity	DIN 52 612		0.54 W/mK	0.61 W/mK	0.61 W/mK	0.61 W/mK	0.61 W/mK	0.12 W/mK
			← suitable for underfloor heating systems →					
Electrical insulation properties	IEC 60093, VDE 0303 T.30		← > 10 ¹⁰ Ohm →					
Electrical propensity when walked upon	EN 1815		← antistatic, charging in case of rubber soles < 2 kV →					
Effect of a castor chair	EN 425		← suitable if castor wheels, type W, according to EN 12 529 are used →					

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

EN 1817: Specification for homogeneous and heterogeneous smooth elastomer floor coverings

EN 14 521: Specification for smooth rubber floor coverings with or without foam backing with a decorative layer

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