	Test method	Requirements	Average test results from running production				
			norament®		noraplan®		
			928 grano ed	**927 grano ec**	**sentica ed** 2.0 mm **signa ed** 2.0 mm **stone ed** 2.0 mm	**sentica ed** 3.0 mm **signa ed** 3.0 mm	**astro ec**
CE conformity	**EN 14041**		← Manufacturer: nora systems GmbH, D-69469 Weinheim →				
DoP-No.	EN 14041		0005a	0022	0001	0001	0036
Thermal conductivity	EN 10456	λ = 0.17 W/(m·K)	← Fulfilled →				
Dynamic coefficient of friction	EN 13893	DS	← Fulfilled →				
Electrical behaviour	EN 1081	ed = ≤ 10^9 Ohm	Fulfilled		← Fulfilled →		
		ec = ≤ 10^6 Ohm		Fulfilled			Fulfilled
Reaction to fire	EN 13501-1	Not bonded	C_{fl}-s1, bonded	C_{fl}-s2	← C_{fl}-s1 →		
Reaction to fire	EN 13501-1	Bonded on mineral subfloor	C_{fl}-s1	C_{fl}-s1	B_{fl}-s1		C_{fl}-s1
Properties acc. to EN 1817							
Thickness	EN ISO 24346	Mean value ± 0.15 mm according to EN 1817	3.5 mm	3.5 mm	2.0 mm	3.0 mm	2.0 mm
Dimensional stability	EN ISO 23999	± 0.4 %	← ± 0.2 % →		← ± 0.3 % →		
Cigarette-burn resistance	EN 1399	Procedure A (stubbed out) ≥ level 4 Procedure B (burning) ≥ level 3	← Fulfilled →				
Flexibility	EN ISO 24344, procedure A	Mandrel diameter 20 mm, no fissuring	← Fulfilled →			–	Fulfilled
Hardness	ISO 48-4	≥ 75 Shore A (EN 1817)	84 Shore A	86 Shore A	← 95 Shore A →		
Residual indentation	EN ISO 24343	Mean value ≤ 0.15 mm at thickness < 2.5 mm Mean value ≤ 0.20 mm at thickness ≥ 2.5 mm	–		0.03 mm	–	0.01 mm
		Mean value ≤ 0.25 mm at thickness ≥ 3.0 mm Mean value ≤ 0.20 mm at thickness < 3.0 mm	0.05 mm		–	0.03 mm	–
Abrasion resistance at 5 N load	ISO 4649, procedure A	≤ 250 mm^3	90 mm^3	90 mm^3	130 mm^3		150 mm^3
Colour fastness to artificial light	ISO 105-B02, procedure 3, test conditions 6.1 a)	At least level 6 on the blue scale; ≥ level 3 on the grey scale	← Grey scale ≥ level 3 acc. to ISO 105-A02 →				
Classification	EN ISO 10874	Commercial/Industrial	34/43		34/42	34/43	34/42
Additional technical properties							
Toxicity of fire gases	DIN 53436		Carbonisation gases are non-toxic	–	Carbonisation gases are non-toxic		
Anti-slip properties	DIN EN 16165	According to DGUV 108-003	R 10		stone ed: R 10 Others: R 9		R 9
Improvement in footfall sound absorption	ISO 10140-3		10 dB	10 dB	6 dB	8 dB	6 dB
Effect of chemicals	EN ISO 26987		← Resistant depending on concentration and time of exposure* →				
Effect of a castor chair	EN ISO 4918		← Suitable if castor wheels, type W, according to EN 12529 are used →				
Underfloor heating	EN 1264-2		← Suitable, max. 35° C →				
Electrical behaviour**							
Resistance to EPA ground	ESD STM 7.1/ IEC 61340-4-1	Measuring the installed floor at 23 °C (± 2 °C) and ≥ 25 % r.h.	10^6 – 9 x 10^7 Ohm	< 10^6 Ohm	10^6 – 9 x 10^7 Ohm		< 10^6 Ohm
		Measuring the installed floor at 23 °C (± 2 °C) and < 25 % r.h., installed on an appropriate subfloor build up	10^6 – 10^9 Ohm***	< 10^6 Ohm	10^6 – 10^9 Ohm***		< 10^6 Ohm
Operator system – Resistance to ground	ESD STM 97.1/ IEC 61340-4-5	For the system floor/conductive footwear (R < 5 x 10^5 Ohm) measuring the installed floor at 23 °C (± 2 °C) and ≥ 25 % r.h.	≤ 3.5 x 10^7 Ohm	≤ 3.5 x 10^7 Ohm	≤ 3.5 x 10^7 Ohm		≤ 3.5 x 10^7 Ohm
Body voltage generation	ESD STM 97.2 IEC 61340-4-5	Tested with defined conductive footwear at 23 °C and 12 % r.h.	← < 10 V →				< 100 V
Resistance to earth	EN 1081		10^6 – 9 x 10^7 Ohm	< 10^6 Ohm	10^6 – 9 x 10^7 Ohm		< 10^6 Ohm
Insulation resistance	VDE 0100-600		≥ 1 x 10^5 Ohm	–	≥ 5 x 10^4 Ohm	≥ 1 x 10^5 Ohm	–

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

** If installed electrically dissipative and conductive in conformity with our installation instruction and according to the recommendations of the adhesive manufacturer.
The used adhesive has to have a permanent resistance of R < 3 x 10^5 Ohm according to EN ISO 22637.

*** If extremely low humidity values (< 25 % relative air humidity (= r.h.)) are expected for a longer period, please contact nora systems GmbH, Technical Service, for advice.

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

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