

# Technical data

**noraplan®** valua, surface: linear

|                                 | Test method      | Requirements                                | Average test results from running production                       |
|---------------------------------|------------------|---------------------------------------------|--------------------------------------------------------------------|
| <b>CE conformity</b>            | <b>EN 14 041</b> |                                             | <b>Manufacturer:</b><br><b>nora systems GmbH, D-69469 Weinheim</b> |
| DoP-No.                         | EN 14 041        |                                             | 0016                                                               |
| Thermal conductivity            | EN 10 456        | $\lambda = 0.17 \text{ W/(m}\cdot\text{K)}$ | Fulfilled<br>Suitable for underfloor heating systems               |
| Dynamic coefficient of friction | EN 13 893        | DS                                          | Fulfilled                                                          |
| Reaction to fire                | EN 13 501-1      | Not bonded                                  | B <sub>fl</sub> -s1, bonded                                        |
| Reaction to fire                | EN 13 501-1      | Bonded on mineral subfloor                  | B <sub>fl</sub> -s1                                                |

## Properties acc. to EN 1817

|                                     |                                                  |                                                                                                    |                                               |
|-------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Thickness                           | EN ISO 24 346                                    | Mean value $\pm 0.15 \text{ mm}$ acc. to EN 1817                                                   | 3.0 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<br>Procedure B (burning) $\geq$ level 3                  | Fulfilled                                     |
| Flexibility                         | EN ISO 24 344, procedure A                       | Mandrel diameter 20 mm, no fissuring                                                               | -                                             |
| Hardness                            | ISO 7619                                         | $\geq 75 \text{ Shore A}$ acc. to EN 1817                                                          | 92 Shore A                                    |
| Residual indentation                | EN ISO 24 343                                    | Mean value $\leq 0.20 \text{ mm}$ at thickness $\geq 2.5 \text{ mm}$                               | 0.05 mm                                       |
| Abrasion resistance at 5 N load     | ISO 4649, procedure A                            | $\leq 250 \text{ mm}^3$                                                                            | 150 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;<br>$\geq$ 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 / 34 / 43                                  |

## 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<br>TRRL Pendulum  |                 | -                                                                 |
|                                          | SATRA TM 144              |                 | -                                                                 |
| Improvement in footfall sound absorption | ISO 10 140-3              |                 | 8 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<br>$< 2 \text{ kV}$  |
| Effect of a castor chair                 | EN 425                    |                 | Suitable if castor wheels, type W, acc. to<br>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

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