

# Technical data sheet

Product: **DAR11880**  
 Color: **dark grey Elephant**  
 Nominal size: **10x10 cm**  
 Declared size: **98x98x9 mm**  
 Edge shaping: **rectified**  
 Surface: **relief matt ABS**

Serie: **Dale**  
 Norm: **EN 14411:annex G, Bla**  
 Declaration: **T 21.01**  
 Group of goods: **floor tile sintered UGL**  
 Product type: **fully sintered tile**

| Technical characteristics                | Norm                  | EN 14411:annex G<br>Bla                    | LB/RAKO                            |
|------------------------------------------|-----------------------|--------------------------------------------|------------------------------------|
| Tolerance - Length/width                 | ISO 10545-2           | ± 0.6%                                     | ± 0.4%                             |
| Tolerance - Thickness                    | ISO 10545-2           | ± 5%                                       | ± 5%                               |
| Tolerance - Straightness                 | ISO 10545-2           | ± 0.5%                                     | ± 0.25%                            |
| Tolerance - Rectangularity               | ISO 10545-2           | ± 0.6%                                     | ± 0.3%                             |
| Tolerance - Surface flatness             | ISO 10545-2           | ± 0.5%                                     | ± 0.25%                            |
| Surface quality                          | ISO 10545-2           | Min. 95%                                   | Min. 95%                           |
| Water absorption                         | ISO 10545-3           | E<0.5%,ind.max 0,6%                        | E<0.3%,ind.max 0,4%                |
| Breaking strength                        | ISO 10545-4           | >= 7,5 mm min. 1300 N<br>< 7,5 mm min. 700 | >=1500 N                           |
| Modulus of rupture                       | ISO 10545-4           | Min. 35 N/mm2<br>Ind.min. 32 N/mm2         | Min. 40 N/mm2<br>Ind.min. 32 N/mm2 |
| Resistance to deep abrasion (UGL)        | ISO 10545-6           | Max. 175 mm3                               | Max. 135 mm3                       |
| Coefficient of linear thermal expansion  | ISO 10545-8           | Declared value                             | Max. 0,000008 / K                  |
| Thermal shock resistance                 | ISO 10545-9           | Required                                   | Resistant                          |
| Crazing resistance                       | ISO 10545-11          | Required                                   | Resistant                          |
| Freeze-thaw resistance                   | ISO 10545-12          | Declared value                             | satisfactory                       |
| Durability for: internal use             | EN 14411              | Pass                                       | Pass                               |
| Slipperiness (bare feet)                 | EN 16165              | Declared value                             | B                                  |
| Slipperiness (shod feet)                 | EN 16165              | Declared value                             | R10                                |
| Coefficient of friction (dry)            | EN 16165              | Declared value                             | >=0,6                              |
| Coefficient of friction (wet)            | EN 16165              | Declared value                             | >=0,5                              |
| Discharge volume                         | DIN 51 097            | Declared value                             | not relevant                       |
| Bond strength/adhesion-cem. adhesives    | EN 12004:2007+A1:2012 | Declared value                             | >=1,0 N/mm2                        |
| Bond strength/adhesion-dispers. adhesiv. | EN 12004:2007+A1:2012 | Declared value                             | NPD*                               |
| Bond strength/adhesion-rea. resin adhes. | EN 12004:2007+A1:2012 | Declared value                             | NPD*                               |
| Bond strength/adhesion-mortar            | EN 12004:2007+A1:2012 | Declared value                             | NPD*                               |
| Moisture expansion                       | ISO 10545-10          | Declared value                             | 0,2 mm/m                           |
| Light reflectance value LRV              | ISO 10545-18          | Not required                               |                                    |
| Impact resistance: Coef. of restit.      | ISO 10545-5           | Declared value                             | Min. 0,6                           |
| Reaction to fire                         | no testing 96/603 EHS | Class A1-A1FL                              | Class A1-A1FL                      |
| Tactility                                | CEN/TS 15209          | Declare<br>surface description             | not relevant                       |
| Resistance to staining                   | ISO 10545-14          | Declared value                             | Min. 3                             |
| Resistance to low conc.of acids/alkalis  | ISO 10545-13          | Declared value                             | A                                  |
| Resistance to high conc.of acids/alkalis | ISO 10545-13          | Declared value                             | A                                  |
| Resist. to house. chem. and swim. pool   | ISO 10545-13          | Min. B                                     | A                                  |
| Release of dang.subs.: Cadmium (GL)      | ISO 10545-15          | Declared value                             | NPD*                               |
| Release of dang.subs.: Lead (GL)         | ISO 10545-15          | Declared value                             | NPD*                               |
| Surface hardness according to Mohs       | EN 101                | Declared value                             | Min. 7                             |
| The reference life (RSL)                 | ISO 14 025/EN 15804   | 50 years                                   | 50 years                           |
| Assessment of nat.radionuclide content   | CZ Imp.422/2016       | Max. index 1,0                             | Max. index 1,0                     |

\* No Performance Determined – NPD