

# Technical data sheet

**Product: DAK11857**  
**Color: dark grey Ash**  
**Nominal size: 10x10 cm**  
**Declared size: 98x98x9 mm**  
**Edge shaping: rectified**  
**Surface: flat matt ABS**

**Serie: Castone**  
**Norm: EN 14411:annex G, Bla**  
**Declaration: T 21.01**  
**Group of goods: floor tile sintered GL**  
**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                                      | >=1500 N                                                   |
| Modulus of rupture                       | ISO 10545-4           | Min. 35 N/mm <sup>2</sup><br>Ind.min. 32 N/mm <sup>2</sup> | Min. 40 N/mm <sup>2</sup><br>Ind.min. 32 N/mm <sup>2</sup> |
| Resistance to deep abrasion (UGL)        | ISO 10545-6           | Not required                                               | Not tested                                                 |
| Resistance to surface abrasion (GL)      | ISO 10545-7           | Declared value                                             | PEI 4                                                      |
| 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/mm <sup>2</sup>                                    |
| 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          | Min. 3                                                     | 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                                             | B                                                          |
| 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