

# Technical data sheet

Product: **WAAVE012**  
 Color: **light grey RAL 0008500**  
 Nominal size: **20x60 cm**  
 Declared size: **598x198x10 mm**

Serie: **Concept Plus**  
 Norm: **EN 14411:annex L, BIII**  
 Declaration: **W 13 01**  
 Group of goods: **wall tile**  
 Product type: **wall tile**

Surface: **flat glossy**

| Technical characteristics                | Norm                  | EN 14411:annex L<br>BIII                    | LB/RAKO                            |
|--|-----------------------|---|------------------------------------|
| Tolerance - Length/width                 | ISO 10545-2           | ± 0,5%                                      | ± 0,4%                             |
| Tolerance - Thickness                    | ISO 10545-2           | ± 10%                                       | ± 5%                               |
| Tolerance - Straightness                 | ISO 10545-2           | ± 0,3%                                      | ± 0,2%                             |
| Tolerance - Rectangularity               | ISO 10545-2           | ± 0,5%                                      | ± 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>10%                                       | E>10%                              |
| Breaking strength                        | ISO 10545-4           | >= 7,5 mm min. 600 N<br>< 7,5 mm min. 200 N | >=600 N                            |
| Modulus of rupture                       | ISO 10545-4           | Min. 12 N/mm2<br>Ind.min. 15 N/mm2          | Min. 12 N/mm2<br>Ind.min. 15 N/mm2 |
| 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                              | Unsatisfactory                     |
| Durability for: internal use             | EN 14411              | Pass  | Pass                               |
| Bond strength/adhesion-cem. adhesives    | EN 12004:2007+A1:2012 | Declared value                              | >=0,5 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                              | 0,6 mm/m                           |
| Light reflectance value LRV              | ISO 10545-18          | Not required                                | 68                                 |
| Impact resistance: Coef. of restit.      | ISO 10545-5           | Declared value                              | Min. 0,6                           |
| Reaction to fire                         | no testing 96/603 EHS | Class A1                                    | Class A1                           |
| Resistance to staining                   | ISO 10545-14          | Min. 3                                      | Min. 3                             |
| Resistance to low conc.of acids/alkalis  | ISO 10545-13          | Declared value                              | B                                  |
| 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                | Not required                                | Min. 3                             |
| 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