



# TECHNICAL SPECIFICATIONS

| SPECIFICATIONS           | TEST METHOD         | RESULTS                                                                                                                          |
|--------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Water Absorption         | ASTM C97 / C97M-18  | $\leq 0.02 \%$                                                                                                                   |
|                          | BS EN 14617-1:2005  | $\leq 0.02 \%$                                                                                                                   |
| Apparent Density         | ASTM C97 / C97M-18  | 2.1 – 2.3 g/cm <sup>3</sup>                                                                                                      |
|                          | BS EN 14617-1:2005  | 2.1 – 2.3 g/cm <sup>3</sup>                                                                                                      |
| Flexural Strength        | ASTM C880/C880M-18  | Fine and medium grain: $\geq 55$ MPa<br>Coarse grain: $\geq 41$ MPa                                                              |
|                          | BS EN 14617-2:2016  | Fine and medium grain: $> 60$ MPa<br>Coarse grain: $> 40$ MPa                                                                    |
| Compressive Strength     | ASTM C170/C170M-17  | Dry: $\geq 200$ MPa                                                                                                              |
|                          | BS EN 14617-15:2005 | Dry: $\geq 185$ MPa                                                                                                              |
| Chemical Resistance      | ASTM C650-04:2014   | Unaffected                                                                                                                       |
|                          | BS EN 14617-10:2012 | Class C4                                                                                                                         |
| Dimension Stability      | EN 14617-12:2012    | Class A                                                                                                                          |
| Impact Resistance        | ASTM C1870-18       | 36-inch ball drop: $\leq 0.25$ in<br>48-inch ball drop: $\leq 0.27$ in                                                           |
|                          | BS EN 14617-9:2005  | $> 4$ J                                                                                                                          |
| Abrasion Resistance      | ASTM C501-84:2015   | Abrasive Wear index: $I_w \geq 179$                                                                                              |
|                          | BS EN 14617-4:2012  | Volume of chord: $V \leq 165$ mm <sup>3</sup><br>Chord length: $l \leq 27$ mm                                                    |
| Thermal Shock Resistance | ASTM C484-99:2014   | No visible damage after 10 cycles                                                                                                |
|                          | EN 14617-6:2012     | No Visible defects after 20 cycles<br>Change in mass: $\leq 0.05\%$<br>Change in flexural strength: $- 8.4\% \div 5.4\%$         |
| Freeze-thaw Resistance   | ASTM C1026-13:2018  | No visible damage after 300 cycles<br>Wt.Loss: $\leq 0.09\%$                                                                     |
|                          | EN 14617-5:2012     | No obvious damage after 25 cycles<br>$KM_{f25} = 93 \div 105\%$                                                                  |
| Mohs's Scratch Hardness  | EN 101: 1991        | $\geq 6$                                                                                                                         |
| Slip Resistance          | DIN 51130:2014      | R9 at Honed 400                                                                                                                  |
|                          | ASTM C1028-07       | Static coefficient of friction<br>- Dry: $0.7 \div 0.8$ (Polished/Honed finish)<br>- Wet: $0.5 \div 0.7$ (Polished/Honed finish) |
| Microbial Resistance     | ASTM D6329-98       | Ranking 3: Resistant to Mold Growth                                                                                              |
| Stain Resistance         | ASTM C 1378-04:2014 | Class A (Polished finish)                                                                                                        |
| Surface Burning          | ASTM E84            | Class A                                                                                                                          |