# TECHNICAL INFORMATION

| **Unglazed fine porcelain stoneware slabs. Quality features compliant with test procedures envisaged by standard E.N. 14411. Appendix G, Group B1a UGL.** | | REFERENCE STANDARD REQUIREMENTS | STANDARD REQUIREMENT N ≥ 15 cm | | SUGAR BLACK | | | PLANET MOON | | GLACIER | | CALACATTA ORO | | CALACATTA SUPREME | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (%) | (mm) | NATURAL | GLOSSY | | NATURAL | GLOSSY | NATURAL | GLOSSY | NATURAL | GLOSSY | NATURAL | GLOSSY |
| | MOHS hardness | EN 101 | | | 6 | 4 | | 5 | 4 | 6 | 4 | 5 | 4 | 6 | 4 |
| | Crazing resistance | ISO 10545-11 | | | OK | OK | | OK | OK | | | OK | OK | | |
| | Water mass absorbed, average value (%) | ISO 10545-3 | | | 0,04% | 0,05% | | 0,07% | 0,05% | 0,04% | 0,05% | 0,10% | 0,05% | 0,04% | 0,05% |
| | Breaking strength (N) | ISO 10545-4 | | | 5584.33 | 5000 | | 5411.38 | 5000 | 5000 | 5000 | 5597.28 | 5636.79 | 5000 | 5000 |
| | Breaking load (N) | ISO 10545-4 | | | 2899.20 | | | 2852.25 | | | | 2915.25 | 2937 | | |
| | Bending resistance (N/mm²) | ISO 10545-4 | | | 57,4 N/mm² | 53,00 N/mm² | | 57,33 N/mm² | 53,00 N/mm² | 53,00 N/mm² | 53,00 N/mm² | 57,61 N/mm² | 56,79 N/mm² | 53,00 N/mm² | 53,00 N/mm² |
| | Deep abrasion resistance, unglazed slabs | ISO 10545-6 | | | average rating 131 mm³ | average rating 135 mm³ | | average rating 128 mm³ | average rating 135 mm³ | average rating 123 mm³ | average rating 123 mm³ | average rating 135 mm³ | average rating 135 mm³ | average rating 123 mm³ | average rating 123 mm³ |
| | Resistance to thermal shock | ISO 10545-9 | Test method available | | RESISTANT | RESISTANT | | RESISTANT | RESISTANT | RESISTANT | RESISTANT | RESISTANT | RESISTANT | RESISTANT | RESISTANT |
| | Static friction coefficient (slip level) | ASTM C1028 | | | DRY= 1,01 WET= 0,77 | DRY= 1,27 WET= 0,38 | | DRY= 1,01 WET= 0,77 | DRY= 1,27 WET= 0,38 | DRY= 0,61 WET= 0,53 | DRY= 1,27 WET= 0,38 | DRY=0,89 WET=0,56 | DRY=1,09 WET=0,39 | DRY= 0,61 WET= 0,53 | DRY= 1,27 WET= 0,38 |
| | Dynamic friction coefficient | B. C. R. | | | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 |
| | Stain resistance | ISO 10545-14 | Test method available | | Class 6 | Class 5 | | Class 5 | Class 5 | Class 5 | Class 5-3 | Class 5 | Class 5-4 | Class 5 | Class 5-3 |
| | Resistance to low concentrations of acids and alkalis | ISO 10545-13 | HCl 3% CITRIC ACID 100 g/l Koh 30 g/l | | ULA | ULB | | ULA | ULB | ULA | ULB | ULA | ULA / ULB | ULA | ULB |
| | Resistance to high concentrations of acids and alkalis | | HCl 18% LACTIC ACID 5% Koh 100 g/l | | UHA | UHB | | UHA | UHB | UHA | UHB | UHA | UHB | UHA | UHB |
| | Resistance to household chemicals and swimming pool chemicals | | AMMONIUM CHLORIDE 100 g/l SODIUM HYPOCHLORITE 20 mg/l | | UA | UA | | UA | UA | UA | UA | UA | UA | UA | UA |
| | BOT 3000 | "DCOF (section 9.6 ANSI A 137.1.2012)" | | | WET = 0,64 | WET = 0,22 | | WET = 0,56 | WET = 0,22 | WET = 0,50 | WET = 0,21 | WET = 0,40 | WET = 0,22 | WET = 0,50 | WET = 0,21 |

# TECHNICAL INFORMATION

| **Unglazed fine porcelain stoneware slabs. Quality features compliant with test procedures envisaged by standard E.N. 14411. Appendix G, Group B1a UGL.** | | REFERENCE STANDARD REQUIREMENTS | STANDARD REQUIREMENT N ≥ 15 cm | | CALACATTA TOP | | | STATUARIO LIGHT | | STATUARIO | | STATUARIO EXTRA | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (%) | (mm) | NATURAL | GLOSSY | | NATURAL | GLOSSY | NATURAL | GLOSSY | NATURAL | GLOSSY |
| | MOHS hardness | EN 101 | | | 6 | 4 | | 5 | 4 | 5 | 4 | 6 | 4 |
| | Crazing resistance | ISO 10545-11 | | | OK | OK | | OK | OK | OK | OK | | |
| | Water mass absorbed, average value (%) | ISO 10545-3 | | | 0,06% | 0,05% | | 0,10% | 0,10% | 0,10% | 0,08% | 0,04% | 0,05% |
| | Breaking strength (N) | ISO 10545-4 | | | 5800 | 5636.79 | | 5597.28 | 5286.53 | 5597.28 | 5597.28 | 5000 | 5000 |
| | Breaking load (N) | ISO 10545-4 | | | 2937 | 2937 | | 2915.25 | 2754.5 | 2915.25 | 2915.25 | | |
| | Bending resistance (N/mm²) | ISO 10545-4 | | | 58,00 N/mm² | 56,79 N/mm² | | 57,61 N/mm² | 53,65 N/mm² | 57,61 N/mm² | 57,61 N/mm² | 53,00 N/mm² | 53,00 N/mm² |
| | Deep abrasion resistance, unglazed slabs | ISO 10545-6 | | | average rating 132 mm³ | average rating 135 mm³ | | average rating 139 mm³ | average rating 135 mm³ | average rating 135 mm³ | average rating 135 mm³ | average rating 123 mm³ | average rating 123 mm³ |
| | Resistance to thermal shock | ISO 10545-9 | Test method available | | RESISTANT | RESISTANT | | RESISTANT | RESISTANT | RESISTANT | RESISTANT | RESISTANT | RESISTANT |
| | Static friction coefficient (slip level) | ASTM C1028 | | | DRY= 1,09 WET= 0,39 | DRY= 1,09 WET= 0,39 | | DRY= 0,89 WET= 0,56 | DRY= 1,09 WET= 0,39 | DRY=0,89 WET=0,56 | DRY=1,09 WET=1,39 | DRY= 0,61 WET= 0,53 | DRY= 1,27 WET= 0,38 |
| | Dynamic friction coefficient | B. C. R. | | | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 | Ca = 0.62 Gb = 0.70 |
| | Stain resistance | ISO 10545-14 | Test method available | | Class 5-4 | Class 5-4 | | Class 5 | Class 5-4 | Class 5 | Class 5-3 | Class 5 | Class 5-3 |
| | Resistance to low concentrations of acids and alkalis | ISO 10545-13 | HCl 3% CITRIC ACID 100 g/l Koh 30 g/l | | ULA | ULA / ULB | | ULA | ULA/ULB | ULA | ULA/ULB | ULA | ULB |
| | Resistance to high concentrations of acids and alkalis | | HCl 18% LACTIC ACID 5% Koh 100 g/l | | UHA | UHB | | UHA | UHB | UHA | UHB | UHA | UHB |
| | Resistance to household chemicals and swimming pool chemicals | | AMMONIUM CHLORIDE 100 g/l SODIUM HYPOCHLORITE 20 mg/l | | UA | UA | | UA | UA | UA | UA | UA | UA |
| | BOT 3000 | "DCOF (section 9.6 ANSI A 137.1.2012)" | | | WET = 0,22 | WET = 0,22 | | WET = 0,40 | WET = 0,22 | WET = 0,40 | WET = 0,22 | WET = 0,50 | WET = 0,21 |