

## 9 mm / Glazed Porcelain Stoneware

|                                                                                     | E.N. 14411-ISO 13006 . Appendix G.<br>Group BIa. GL                                                         | Test method              | Reference value                                                                                                                                                                                                                                                                                                                   | Declared value                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    | Friction coefficient (slipperiness)                                                                         | ANSI-A326.3              | -                                                                                                                                                                                                                                                                                                                                 | > 0,42 wet                                                                           |
|    | Barefoot slip resistance                                                                                    | DIN-EN-16165-<br>ANNEX-A | -                                                                                                                                                                                                                                                                                                                                 | Cl. A Matte                                                                          |
|    | Barefoot slip resistance                                                                                    | DIN-EN-16165-<br>ANNEX-A | -                                                                                                                                                                                                                                                                                                                                 | Cl. A+B+C Grip                                                                       |
|    | Slip resistance with shoes                                                                                  | DIN-EN-16165-<br>ANNEX-B | -                                                                                                                                                                                                                                                                                                                                 | R10 Matte                                                                            |
|    | Slip resistance with shoes                                                                                  | DIN-EN-16165-<br>ANNEX-B | -                                                                                                                                                                                                                                                                                                                                 | R11 Grip                                                                             |
|   | Length and width: admitted deviation, in %, of the average size of each tile from the production dimensions | ISO-10545-2              | Squadrato ISO 13006 - $\pm 0,3\%$ ( $\pm 1$ mm)                                                                                                                                                                                                                                                                                   | $\pm 0,15\%$                                                                         |
|  | Maximum right-angle deviation, in %, in relation to the corresponding production dimensions                 | ISO-10545-2              | Squadrato ISO 13006 - $\pm 0,3\%$ ( $\pm 1,5$ mm)                                                                                                                                                                                                                                                                                 | $\pm 0,2\%$                                                                          |
|  | Flatness (centre curvature / edge curvature / warpage)                                                      | ISO-10545-2              | Squadrato ISO 13006 - $\pm 0,4\%$ ( $\pm 1,8$ mm)                                                                                                                                                                                                                                                                                 | $\pm 0,35\%$                                                                         |
|  | Maximum straightness deviation, in %, in relation to the corresponding production dimensions                | ISO-10545-2              | Squadrato ISO 13006 - $\pm 0,3\%$ ( $\pm 0,8$ mm)                                                                                                                                                                                                                                                                                 | $\pm 0,1\%$                                                                          |
|  | Admitted deviation, in %, of the average thickness of each tile from the production dimensions              | ISO-10545-2              | Squadrato ISO 13006 - $\pm 5\%$ ( $\pm 0,5$ mm)                                                                                                                                                                                                                                                                                   | $\pm 5\%$                                                                            |
|  | Surface quality                                                                                             | ISO-10545-2              | Il 95% min delle piastrelle deve essere esente da difetti visibili / At least 95% of the tiles must be free from visible flaws / 95% min des carreaux ne doivent présenter aucun défaut visible / Mindestens 95% der Fliesen müssen frei von sichtbaren / mín. el 95% de las baldosas tiene que estar exento de defectos visibles | CONFORME /<br>CONFORMING /<br>CONFORME /<br>KONFORM /<br>CONFORME /<br>COOTBETCTBYET |
|  | Amount of water absorbed, in percentage                                                                     | ISO-10545-3              | $E \leq 0,5\%$                                                                                                                                                                                                                                                                                                                    | average value 0,08%                                                                  |
|  | Bending strength in N/mm <sup>2</sup>                                                                       | ISO-10545-4              | >35 N/mm <sup>2</sup>                                                                                                                                                                                                                                                                                                             | average value 50 N/mm <sup>2</sup>                                                   |
|                                                                                     | Breaking strength in N (thickness $\geq 7,5$ mm)                                                            | ISO-10545-4              | $\geq 1300$ Newton                                                                                                                                                                                                                                                                                                                | average value 2200 N                                                                 |

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|    | Resistance to abrasion of glazed tiles                            | ISO-10545-7  | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | GRAPHITE Cl. 3                                               |
|    | Resistance to abrasion of glazed tiles                            | ISO-10545-7  | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | DARK GREY Cl. 3                                              |
|    | Resistance to abrasion of glazed tiles                            | ISO-10545-7  | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | LIGHT GREY Cl. 3                                             |
|    | Resistance to abrasion of glazed tiles                            | ISO-10545-7  | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | WHITE Cl. 4                                                  |
|    | Resistance to abrasion of glazed tiles                            | ISO-10545-7  | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | BEIGE Cl. 3                                                  |
|  | Thermal shock resistance                                          | ISO-10545-9  | Metodo di prova disponibile / Available testing method / Méthode d'essai disponible / Verfügbare Prüfmethode / Método de ensayo disponible                              | RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ |
|  | Glaze crazing resistance                                          | ISO-10545-11 | Richiesta / Required / Requisite / Gefordert / Requerida                                                                                                                | RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ |
|  | Frost resistance                                                  | ISO-10545-12 | Richiesta / Required / Requisite / Gefordert / Requerida                                                                                                                | RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ |
|  | Resistance to low concentrations of acids and alkali              | ISO-10545-13 | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | GLA                                                          |
|  | Resistance to domestic chemicals and additives for swimming pools | ISO-10545-13 | GB minimo / GB minimum / GB minimum / GB mindestens / GB minimo                                                                                                         | GA                                                           |
|  | Resistance to staining                                            | ISO-10545-14 | classe 3 minimo / class 3 minimum / classe 3 minimum / klasse 3 mindestens / classe 3 mínimo                                                                            | Cl. 4-5                                                      |

**Note:**

For optimal installation results, Florim recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats.

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## 20 mm / Fine Porcelain Stoneware

|                                                                                     | E.N. 14411-ISO 13006 . Appendix G.<br>Group BIa. UGL                                                        | Test method              | Reference value                                                                                                                                                                                                                                                                                                                   | Declared value                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    | Friction coefficient (slipperiness)                                                                         | ANSI-A326.3              | -                                                                                                                                                                                                                                                                                                                                 | > 0,42 wet                                                                           |
|    | Pendulum friction test                                                                                      | BS-EN-16165-<br>ANNEX-C  | -                                                                                                                                                                                                                                                                                                                                 | PTV > 36 wet slider 4S                                                               |
|    | Barefoot slip resistance                                                                                    | DIN-EN-16165-<br>ANNEX-A | -                                                                                                                                                                                                                                                                                                                                 | 24° ≤ α Cl. C                                                                        |
|    | Slip resistance with shoes                                                                                  | DIN-EN-16165-<br>ANNEX-B | -                                                                                                                                                                                                                                                                                                                                 | 19° < α ≤ 27° R11                                                                    |
|    | Length and width: admitted deviation, in %, of the average size of each tile from the production dimensions | ISO-10545-2              | Squadrato ISO 13006 - ±0,3% (±1 mm)                                                                                                                                                                                                                                                                                               | ± 0,15%                                                                              |
|  | Maximum right-angle deviation, in %, in relation to the corresponding production dimensions                 | ISO-10545-2              | Squadrato ISO 13006 - ±0,3% (±1,5 mm)                                                                                                                                                                                                                                                                                             | ± 0,2%                                                                               |
|  | Maximum straightness deviation, in %, in relation to the corresponding production dimensions                | ISO-10545-2              | Squadrato ISO 13006 - ±0,3% (±0,8 mm)                                                                                                                                                                                                                                                                                             | ± 0,1%                                                                               |
|  | Admitted deviation, in %, of the average thickness of each tile from the production dimensions              | ISO-10545-2              | Squadrato ISO 13006 - ±5% (±0,5 mm)                                                                                                                                                                                                                                                                                               | ± 5%                                                                                 |
|  | Surface quality                                                                                             | ISO-10545-2              | Il 95% min delle piastrelle deve essere esente da difetti visibili / At least 95% of the tiles must be free from visible flaws / 95% min des carreaux ne doivent présenter aucun défaut visible / Mindestens 95% der Fliesen müssen frei von sichtbaren / mín. el 95% de las baldosas tiene que estar exento de defectos visibles | CONFORME /<br>CONFORMING /<br>CONFORME /<br>KONFORM /<br>CONFORME /<br>COOTBETCTBYET |
|  | Flatness (centre curvature / edge curvature / warpage)                                                      | ISO-10545-2              | Squadrato ISO 13006 - ±0,4% (±1,8 mm)                                                                                                                                                                                                                                                                                             | ± 0,35%                                                                              |
|  | Amount of water absorbed, in percentage                                                                     | ISO-10545-3              | E≤0,5%                                                                                                                                                                                                                                                                                                                            | average value 0,08%                                                                  |
|  | Bending strength in N/mm2                                                                                   | ISO-10545-4              | >35 N/mm2                                                                                                                                                                                                                                                                                                                         | average value 52 N/mm2                                                               |
|  | Breaking strength in N (thickness >= 7,5 mm)                                                                | ISO-10545-4              | ≥1300 Newton                                                                                                                                                                                                                                                                                                                      | CONFORME /<br>CONFORMING /<br>CONFORME /<br>KONFORM /<br>CONFORME /<br>COOTBETCTBYET |
|                                                                                     | Resistance to deep abrasion of unglazed tiles                                                               | ISO-10545-6              | <175 mm3                                                                                                                                                                                                                                                                                                                          | average value 140 mm3                                                                |

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|  | Thermal shock resistance                                          | ISO-10545-9  | Metodo di prova disponibile / Available testing method / Méthode d'essai disponible / Verfügbare Prüfmethode / Método de ensayo disponible                              | RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ |
|  | Frost resistance                                                  | ISO-10545-12 | Richiesta / Required / Requête / Gefordert / Requerida                                                                                                                  | RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ |
|  | Resistance to high concentrations of acids and alkali             | ISO-10545-13 | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | HA                                                           |
|  | Resistance to low concentrations of acids and alkali              | ISO-10545-13 | Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante | LA                                                           |
|  | Resistance to domestic chemicals and additives for swimming pools | ISO-10545-13 | B minimo / B minimum / B minimum / B mindestens / B minimo                                                                                                              | A                                                            |
|  | Resistance to staining                                            | ISO-10545-14 | Metodo di prova disponibile / Available testing method / Méthode d'essai disponible / Verfügbare Prüfmethode / Método de ensayo disponible                              | Cl. 4-5                                                      |

**Note:**

For optimal installation results, Florim recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats.

Ceramic tiles undergo a compacting thermal treatment that ensures resistance and durability. The low level of water absorption makes the slabs frost resistant. This could result in superficial water stagnations even if materials are installed in a workmanlike manner.

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