

|           | NOMINAL SIZE | ACTUAL SIZE   |
|-----------|--------------|---------------|
| M20x20 cm | (8"x8")      | 7.79"x7.79"   |
| M30x30 cm | (12"x12")    | 11.73"x11.73" |

**2** **FORMATI**  
Sizes · Formats  
Formate · Formatos

**11** **COLORI**  
Colours · Couleurs  
Farben · Colores

**3** **SUPERFICI**  
Surfaces · Surfaces  
Oberflächen · Superficies

| NEW YORK                |                              | LONDON                  |                              | AZZURRITE               |                              | LIVERPOOL               |                              | GABBRO GRIGIO           |                              |
|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|
| M20x20 (8"x8") 005875   |                              | M20x20 (8"x8") 005876   |                              | M20x20 (8"x8") 005472   |                              | M20x20 (8"x8") 009248   |                              | M20x20 (8"x8") 000943   |                              |
| M30x30 (12"x12") 005877 |                              | M30x30 (12"x12") 005878 |                              | M30x30 (12"x12") 005476 |                              | M30x30 (12"x12") 008511 |                              | M30x30 (12"x12") 001040 |                              |
|                         | GR 30x30 (12"x12")<br>006398 |                         | GR 30x30 (12"x12")<br>006399 |                         | GR 30x30 (12"x12")<br>005484 |                         | GR 30x30 (12"x12")<br>008713 |                         | GR 30x30 (12"x12")<br>001100 |
|                         | BS 7,5x30 (3"x12")<br>005883 |                         | BS 7,5x30 (3"x12")<br>005884 |                         | BS 7,5x30 (3"x12")<br>005500 |                         | BS 7,5x30 (3"x12")<br>008718 |                         | BS 7,5x30 (3"x12")<br>004661 |
|                         | S1 8x20 (3"x8")<br>005885    |                         | S1 8x20 (3"x8")<br>005886    |                         | S1 8x20 (3"x8")<br>005488    |                         | S1 8x20 (3"x8")<br>009254    |                         | S1 8x20 (3"x8")<br>000957    |
|                         | S2 8x20 (3"x8")<br>005887    |                         | S2 8x20 (3"x8")<br>005888    |                         | S2 8x20 (3"x8")<br>005492    |                         | S2 8x20 (3"x8")<br>009251    |                         | S2 8x20 (3"x8")<br>000971    |
|                         | I2 h 8 (h 3")<br>005891      |                         | I2 h 8 (h 3")<br>005892      |                         | I2 h 8 (h 3")<br>005512      |                         | I2 h 8 (h 3")<br>009257      |                         | I2 h 8 (h 3")<br>000915      |
|                         | E2 h 8 (h 3")<br>005893      |                         | E2 h 8 (h 3")<br>005894      |                         | E2 h 8 (h 3")<br>005508      |                         | E2 h 8 (h 3")<br>009260      |                         | E2 h 8 (h 3")<br>000901      |
|                         | S2 15x20 (6"x8")<br>005938   |                         | S2 15x20 (6"x8")<br>005939   |                         | S2 15x20 (6"x8")<br>005940   |                         | S2 15x20 (6"x8")<br>009263   |                         | S2 15x20 (6"x8")<br>006408   |
|                         | I2 h 15 (h 6")<br>005942     |                         | I2 h 15 (h 6")<br>005943     |                         | I2 h 15 (h 6")<br>005944     |                         | I2 h 15 (h 6")<br>009266     |                         | I2 h 15 (h 6")<br>006424     |
|                         | E2 h 15 (h 6")<br>005946     |                         | E2 h 15 (h 6")<br>005947     |                         | E2 h 15 (h 6")<br>005948     |                         | E2 h 15 (h 6")<br>009269     |                         | E2 h 15 (h 6")<br>006440     |

| OTTAWA                  |                              |
|-------------------------|------------------------------|
| M20x20 (8"x8") 013363   |                              |
| M30x30 (12"x12") 013364 |                              |
|                         | GR 30x30 (12"x12")<br>013366 |
|                         | BS 7,5x30 (3"x12")<br>013367 |
|                         | S1 8x20 (3"x8")<br>013368    |
|                         | S2 8x20 (3"x8")<br>013369    |
|                         | I2 h 8 (h 3")<br>013371      |
|                         | E2 h 8 (h 3")<br>013370      |
|                         | S2 15x20 (6"x8")<br>013372   |
|                         | I2 h 15 (h 6")<br>013373     |
|                         | E2 h 15 (h 6")<br>013374     |

M20x20  
(8"x8")  
7,8 mm

M30x30  
(12"x12")  
8,5 mm

| CASABLANCA              |                              | VANCOUVER               |                              | SATURNO                 |                              | VEGA                    |                              | PLUTONE                 |                              |
|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|
| M20x20 (8"x8") 009249   |                              | M20x20 (8"x8") 009439   |                              | M30x30 (12"x12") 008516 |                              | M30x30 (12"x12") 006336 |                              | M30x30 (12"x12") 008514 |                              |
| M30x30 (12"x12") 008509 |                              | M30x30 (12"x12") 009441 |                              |                         |                              |                         |                              |                         |                              |
|                         | GR 30x30 (12"x12")<br>008712 |                         | GR 30x30 (12"x12")<br>009445 |                         | GR 30x30 (12"x12")<br>008745 |                         | GR 30x30 (12"x12")<br>006342 |                         | GR 30x30 (12"x12")<br>008744 |
|                         | BS 7,5x30 (3"x12")<br>008717 |                         | BS 7,5x30 (3"x12")<br>009443 |                         | BS 7,5x30 (3"x12")<br>008735 |                         | BS 7,5x30 (3"x12")<br>006348 |                         | BS 7,5x30 (3"x12")<br>008734 |
|                         | S1 8x20 (3"x8")<br>009255    |                         | S1 8x20 (3"x8")<br>009451    |                         |                              |                         |                              |                         |                              |
|                         | S2 8x20 (3"x8")<br>009252    |                         | S2 8x20 (3"x8")<br>009453    |                         |                              |                         |                              |                         |                              |
|                         | I2 h 8 (h 3")<br>009258      |                         | I2 h 8 (h 3")<br>009455      |                         |                              |                         |                              |                         |                              |
|                         | E2 h 8 (h 3")<br>009261      |                         | E2 h 8 (h 3")<br>009457      |                         |                              |                         |                              |                         |                              |
|                         | S2 15x20 (6"x8")<br>009264   |                         | S2 15x20 (6"x8")<br>009459   |                         |                              |                         |                              |                         |                              |
|                         | I2 h 15 (h 6")<br>009267     |                         | I2 h 15 (h 6")<br>009461     |                         |                              |                         |                              |                         |                              |
|                         | E2 h 15 (h 6")<br>009270     |                         | E2 h 15 (h 6")<br>009463     |                         |                              |                         |                              |                         |                              |

M20x20  
(8"x8")  
7,8 mm

M30x30  
(12"x12")  
8,5 mm

R9

|           | NOMINAL SIZE | ACTUAL SIZE   |
|-----------|--------------|---------------|
| M30x30 cm | (12"x12")    | 11.73"x11.73" |

**Levigato**

polished - poli - Poliert - pulido

**NEW YORK**



M30x30 (12"x12") **005895**

 BS 7,5x30 (3"x12")  
**006961**

**LONDON**



M30x30 (12"x12") **005896**

 BS 7,5x30 (3"x12")  
**013375**

**AZZURRITE**



M30x30 (12"x12") **005513**

 BS 7,5x30 (3"x12")  
**006958**

**LIVERPOOL**



M30x30 (12"x12") **008640**

 BS 7,5x30 (3"x12")  
**008723**

**GABBRO GRIGIO**




M30x30 (12"x12") **001051**

 BS 7,5x30 (3"x12")  
**006955**


**CASABLANCA**




M30x30 (12"x12") **008639**

 BS 7,5x30 (3"x12")  
**008722**


**VANCOUVER**




M30x30 (12"x12") **009447**

 BS 7,5x30 (3"x12")  
**009449**

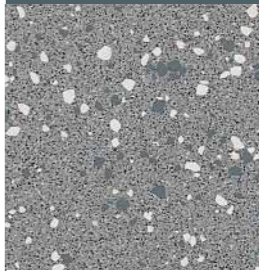
**SATURNO**




M30x30 (12"x12") **008632**

 BS 7,5x30 (3"x12")  
**008750**

**VEGA**



M30x30 (12"x12") **006354**

 BS 7,5x30 (3"x12")  
**006360**

**PLUTONE**



M30x30 (12"x12") **008631**

 BS 7,5x30 (3"x12")  
**008749**

8 mm

**OTTAWA**



M30x30 (12"x12") **013376**


 BS 7,5x30 (3"x12")  
**013377**

8 mm


**Strutturato**

slate - structure - Strukturiert - estructurado

**NEW YORK**



M30x30 (12"x12") **013378**

 GR 30x30 (12"x12")  
**009291**

**LONDON**



M30x30 (12"x12") **013379**

 GR 30x30 (12"x12")  
**013391**


**AZZURRITE**



M30x30 (12"x12") **013380**

 GR 30x30 (12"x12")  
**009292**

**LIVERPOOL**



M30x30 (12"x12") **013381**

 GR 30x30 (12"x12")  
**009295**

**GABBRO GRIGIO**



M30x30 (12"x12") **013382**

 GR 30x30 (12"x12")  
**009290**

**CASABLANCA**



M30x30 (12"x12") **013384**

 GR 30x30 (12"x12")  
**013392**

**VANCOUVER**



M30x30 (12"x12") **013385**

 GR 30x30 (12"x12")  
**013393**

**OTTAWA**



M30x30 (12"x12") **013383**

 GR 30x30 (12"x12")  
**013390**

8,5 mm

**R10**

# BASIC

| Piastrelle in gres fine porcellanato. Caratteristiche di qualità secondo i test di controllo previsti dalle norme E.N. 176 B1<br>Vitreous impervious porcelain tiles. Quality specifications, according to control tests of E.N. 176 B1 standard<br>Carreaux en gres cérame fin. Caractéristiques de qualité d'après les essais de contrôle (norme E.N. 176 B1<br>Atomisierte und gepresste feinkeramische unglasierte Fliesen. Qualitätseigenschaften nach Normen E.N. 176 B1<br>Azulejos de gres porcelánico fino. Características de calidad según las Normas EN 176 B1 | PRESCRIZIONE<br>STANDARD REQUIREMENTS<br>PRESCRIPTIONS<br>ANFORDERUNGEN<br>PRESCRIPCION | RISULTATI TESTS*<br>TEST RESULTS*<br>RESULTATS DES ESSAIS*<br>PRÜFERGEBNIS*<br>RESULTADOS TESTS NORMAS* | Test secondo<br>According to standard<br>Essais selon norme<br>Tests nach<br>Tests según las normas |
|--|---|---|---|
| Lunghezza e larghezza - Length and width - Longueur et largeur - Kanten-Seitenlängen - Largo y ancho   | 0,60 %  | ± 0,30 %  | EN 98   |
| Spessore - Thickness - Epaisseur - Dicke - Espesor   | ± 5 %   | ± 5 %   | EN 98   |
| Rettilinearità - Straightness - Rectilignité - Geradlinigkeit - Rectitud   | ± 0,50 %  | ± 0,40 %  | EN 98   |
| Ortogonalità - Orthogonality - Orthogonalité - Rechtwinkeligkeit - Ortogonalidad   | ± 0,60 %  | ± 0,40 %  | EN 98   |
| Planarità - Flatness - Planimétrie - Ebenflächigkeit - Planaridad  | ± 0,50 %  | ± 0,35 %  | EN 98   |
| Aspetto - Appearance - Aspect - Oberflächenbeschaffenheit - Aspecto  | ≥ 95%   | conforme-conforming-conforme-erfüllt-conforme   | EN 98   |
| Massa d'acqua assorbita - Water absorption - Masse d'eau absorbée - Wasseraufnahme - Masa de agua absorbida  | ≤ 0,5 %   | < 0,1 %   | EN 99   |
| Resistenza a flessione in N/mm <sup>2</sup> - Bending strength - Résistance à la flexion - Biegefestigkeit - Resistencia a la flexión  | ≥ 27 N/mm <sup>2</sup>  | 40 + 55 N/mm <sup>2</sup>   | EN 100  |
| Durezza superficie Mohs - Mohs surface hardness - Dureté de la surface (échelle Mohs) - Ritzhärte nach Mohs - Dureza de la superficie (escala Mohs)  | ≥ 6   | 7 + 8   | EN 101  |
| Resistenza all'abrasione profonda  |   |   |   |
| Deep abrasion resistance - Résistance à l'abrasion profonde - Widerstand gegen Tiefverschleiss - Resistencia a la abrasión profunda  | ≤ 205 mm <sup>3</sup>   | < 150 mm <sup>3</sup>   | EN 102  |
| Coefficiente di dilatazione termica lineare  |   |   |   |
| Coefficient of thermal linear expansion - Coefficient de dilatation thermique linéaire - Wärmeausdehnungskoeffizient - Coeficiente de dilatación térmica lineal  | ≤ 9 MK <sup>-1</sup>  | 5,0 + 6,5 MK <sup>-1</sup>  | EN 103  |
| Resistenza agli sbalzi termici   | Nessun campione deve presentare difetti visibili  | conforme  |   |
| Thermal shock resistance   | Samples must not show visible defects   | conforming  |   |
| Résistance aux écarts thermiques   | Aucun échantillon doit présenter des défauts visibles                                   | conforme  | EN 104  |
| Temperaturwechselbeständigkeit   | Muster dürfen keine sichtbaren Fehler aufweisen   | erfüllt   |   |
| Resistencia a los choques térmicos   | Ningun campione tiene que tener defectos visibles                                       | conforme  |   |
| Resistenza al gelo   | Nessuna rottura o alterazione della superficie  | senza danneggiamento  |   |
| Frost resistance   | No breakages or surface alteration  | no damage   |   |
| Résistance au gel  | Aucune casse ou altération de la surface  | sans dommage  | EN 202  |
| Frostbeständigkeit   | Keinbruch oder sonstige Änderungen der Oberfläche                                       | ohne Schaden  |   |
| Resistencia a la helada  | Ninguna rotura o alteración de la superficie  | sin daños   |   |
| Resistenza agli acidi ed alle basi (escluso HF e derivati)   | richiesta   | resiste   |   |
| Acid and alkali resistance (excluding HF and its derivatives)  | required  | resistant   |   |
| Résistance aux acides et aux bases (sauf HF et dérivés)  | requis  | résiste   | EN 106  |
| Widerstand gegen Säuren und Laugen (mit Ausnahme von HF und deren Verbindungen)  | gefordert   | erfüllt   |   |
| Resistencia a los ácidos y a las bases (excluido HF y derivados)   | requerida   | resiste   |   |
| Inalterabilità dei colori alla luce (raggi UV)   | Non devono presentare variazioni di colore  | nessuna alterazione   |   |
| Colour unalterability after exposition to U.V. rays  | No shade variation  | no change in colour   |   |
| Inalterabilité des couleurs à la lumière U.V.  | Ils ne doivent pas présenter des variations de couleur                                  | aucune altération   | DIN 51094   |
| Lichtechtheit der Färbung (UV-Beständigkeit)   | Es dürfen keine Farbaenderungen vorkommen   | keine Veränderung   |   |
| Inalterabilidad de los colores expuestos a la luz (rayos UV)   | Non tienen que presentar cambios de color   | ninguna alteración  |   |
| Resistenza allo scivolamento - Slip resistance - Résistance au glissement - Bestimmung der Rutschhemmende eigenschaft - Resistencia al deslizamiento   |   | R9 / R10  | DIN 51130 - ZH1 / 571   |
| BASIC naturale, matte, mat, Matt, mate / BASIC strutturato, structured, structure, Strukturiert, estructurado  |   |   |   |

| VITREOUS IMPERVIOUS PORCELAIN TILES. QUALITY SPECIFICATIONS ANSI A 137.1.1980.   | REQUIREMENTS       | FLOOR GRES TEST RESULTS *<br>Rectified fine porcelain stoneware | ASTM TESTING |
|--|--------------------|---|--------------|
| Water Absorption   | 0.5 % max          | 0.05%   | C 373        |
| Modulus of Rupture   | 1500 psi           | 6500 psi  | C 674        |
| Abrasive Wear  | 100 min.           | 150   | C 501        |
| Wedging  | 1.00% max          | 0.20%   | C 502        |
| Facial Dimensions  | 1.5% max           | 0.20%   | C 499        |
| Range of Thickness   | 0.04"              | 0.03"   | C 499        |
| Warpage  | 1 % max            | ± 0.30%   | C 485        |
| Warpage Diagonally   | ± 0.75 % max       | ± 0.25%   | C 485        |
| Moisture Expansion   |                    | 0.009%  | C 370        |
| Frost Resistance   | Unaffected         | Unaffected  | C 1026       |
| Chemical Resistance  | Unaffected         | Unaffected  | C 650        |
| Stain Resistance (BASIC matte) (BASIC structured)  | Resistant          | Resistant   | CTI-T-72     |
| Coefficient of Friction (BASIC matte) (BASIC structured)   | 0.6 min<br>0.6 min | 0.60 Wet - 0.65 Dry<br>0.65 Wet - 0.80 Dry                      | C 1028       |
| Breaking Strength  | 250 lbs. min.      | 450 lbs.  | C 648        |
| Bond Strength  | 50 psi min         | 150 psi   | C 482        |
| Floor Gres porcelain products are guaranteed to meet or exceed the performance specifications outlined in ANSI A 137.1.1980.<br>* Results obtained on several tests carried out by independent testing institutes. |                    |   |              |