## CERAMICHE

# Tender specifications <br> SLIMTECH ABSOLUTE 5plus collection 

Supply of ceramic tiles made of LEA Ceramiche Slimtech laminated porcelain tile for floors and walls.

## Product characteristics

LEA Ceramiche Slimtech laminated porcelain tiles, totally carbon neutral ( $\mathrm{CO}_{2}$ generated from the life cycle $100 \%$ neutralised produced in a maximum size of $3000 \times 1000 \mathrm{~mm}$ and 5 mm thick, reinforced with fibreglass mesh, obtained from raw materials of the highest quality and purity (light clay, feldspar and ceramic pigments with high chromatic performance), and manufactured by dry pressing on a belt of atomized powder, subsequently sintered by means of industrial firing at temperatures exceeding $1200{ }^{\circ} \mathrm{C}$.
The innovative Slimtech manufacturing process produces a final product which is light, flat and flexible, but at the same time compact, non-absorbent, frost-resistant, resistant to stains, chemical attack and thermal shock. The application of the fibreglass mesh gives the product high resistance and extreme versatility and ease of use for a wide range of applications in the architectural world.

## Compliance with EN 14411-G / ISO 13006-G

The Slimtech Absolute 5plus collection is in compliance with the regulations required for first quality products in Italy and Europe UNI EN 14411-G and internationally through ISO 13006-G.

## Quality and environmental certifications

The conservation of the product characteristics is guaranteed by the Quality Management System put into practice by LEA Ceramiche in its plants and certified in accordance with UNI EN ISO 9001.
The collection is manufactured in plants with UNI EN ISO 14001 certified Environmental Management Systems (internationally recognised standard) and EMAS (Regulation 1221/09-eco-management and audit community system).
The collection helps to meet the criteria for obtaining LEED credits. The product contains no VOC (volatile organic compounds) and got the GREENGUARD GOLD certification. The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the Slimtech Absolute 5plus collection based on its Life Cycle Assessment (LCA).
Think Zero: Slimtech ultra-thin slabs are totally carbon neutral and produced with innovative technology to minimise environmental impact: the $\mathrm{CO}_{2}$ generated by the life cycle of this product has been $100 \%$ neutralised with the purchase of carbon credits belonging to the CDM (Clean Development Mechanism) standard.

## Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the Slimtech Absolute 5Plus collection have continuous, effective and durable protection against the proliferation of bacteria, tested and certified in accordance with ISO 22196 and ASTM E3031.

| Commercial description of the product |  |
| :--- | :--- |
| Company | LEA Ceramiche (Panariagroup Industrie Ceramiche S.p.A.) |
| Collection | SLIMTECH ABSOLUTE 5plus |
| Colours | TOTAL WHITE, TOTAL BLACK |
| Sizes | $100 X 100 \mathrm{~cm}$ |
|  | $100 X 300 \mathrm{~cm}$ |
|  | SAT - Recommended for flooring in residential and low traffic commercial spaces. <br> LEV - Recommended, as well as for wall cladding, also for flooring in residential or light commercial areas that <br> are not subjected to heavy traffic, where anti-slip characteristics are not required. The occasional presence of <br> small inconsistencies or little spots on the surface is to be considered a characteristic of the material and of its <br> unique production process. If the product is laid in direct contact with external environments, it is recommended <br> to use protective solutions to reduce the formation of scratches. |
| Edges | RECTIFIED |
| Thickness | 5,5mm |




Antibacterial for Life.


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## Technical features

Product type: laminated porcelain stoneware (UGL)
According to: ISO 13006-G (Group Bla), EN 14411-G (Group Bla)

| Technical features | $\begin{array}{c}\text { Required values } \\ \text { Test method } \\ \text { ISO 13006-G, EN 14411-G }\end{array}$ | $\begin{array}{c}\text { Average values } \\ \text { SLIMTECH ABSOLUTE 5plus }\end{array}$ |  |
| :--- | :--- | :--- | :--- |
| Water absorption | ISO $10545-3$ | $\leq 0,5 \%$ | $0,1\left(^{*}\right.$ ) \% |
| Modulus of rupture | ISO $10545-4$ | $\geq 35 \mathrm{~N} / \mathrm{mm}^{2}$ | $50 \mathrm{~N} / \mathrm{mm}^{2}$ |
| Deep abrasion resistance | ISO $10545-6$ | $\leq 175 \mathrm{~mm}^{3}$ | COMPLIANT |
| Linear thermal expansion | ISO $10545-8$ | No provision | $\alpha \leq 7 \cdot 10^{-6}{ }^{\circ} \mathrm{C}^{-1}$ |$]$| 5 RESISTANT (Sat) |
| :--- |
| Stain resistance (Lev) |

(*) Average value referred to ceramic material only.
(**) Excluding hydrofluoric acid and its derivatives.
$\left({ }^{* * *}\right)$ The width of grout joints must be established by the installation supervisor, unless grout widths are regulated by national laying standards.

