# DUNES BIANCO MATT 600×600



Class 1 Building Product Information Requirements Self-Assessment

Product Name: DUNES BIANCO MATT 600X600

Product Identifier: DUNBIM60

Product Description: A glazed porcelain tile with a matt finish and a water absorption rate of less than 0.81%.

#### **Building Code Obligations**

Code Clauses: <u>B2 – Durability</u> B2.3.1 <u>C3 – Fire affecting areas beyond the</u> <u>source</u> D1 – Access routes D1.3.3 <u>E3 – Internal moisture</u> E3.3.2, 3.3.3, 3.3.4 <u>G3 – Food preparation and prevention of</u> <u>contamination</u> G3.3.2 <u>G6 – Airborne and Impact sound</u> G6.3.1







| Scope   | Use   |
|---|---|
| B2 Durability   | See below Suitability table.  |
| C3 Fire   | The Building Code relating to fire ratings regulation and standards become<br>mandatory from April 2013, establishing the list of products belonging to<br>Classes A 'No Contribution to Fire' provided for in Decision 94/611/EC<br>implementing Article 20 of Council Directive 89/106/EEC. |
| D1 Access Routes  | Not acceptable for use under D1/AS1   |
| E3 Internal Moisture  | Under E3 Tiles installed over a waterproof membrane using a nonporous Grouting system, are an acceptable solution.  |
| G3 Food Preparation and<br>Prevention from<br>Contamination | As an Impervious and easy to clean Surface this range complies  |
| G6 Airborne and Impact<br>Sound                             | If required Tiles can form part of an acoustic system to comply with IIC and STC in conjunction with an approved third-party system.  |

| Suitability                                  | Residential | Light<br>Commercial | Commercial | Industrial   |
|--|-------------|---------------------|------------|--------------|
| Indoor Floor                                 | ✓           | ✓                   | -          | -            |
| Indoor Walls                                 | ~           | $\checkmark$        | ✓          | ~            |
| Outdoor Floor                                | ~           | -                   | -          | -            |
| Outdoor Cladding                             | ✓           | $\checkmark$        | ✓          | ✓            |
| Frost Resistant                              | ✓           | $\checkmark$        | ✓          | ~            |
| Swimming Pool Submerged                      | ✓           | $\checkmark$        | ✓          | ✓            |
| Swimming Pool Surround                       | ✓           | -                   | -          | -            |
| Paving                                       | -           | -                   | -          | -            |
| Over Underfloor Heating                      | ✓           | $\checkmark$        | ✓          | ~            |
| Commercial Kitchen Wall                      | ✓           | $\checkmark$        | ✓          | ✓            |
| Within 1.5m of a Plumbing Fixture or Fitting | ✓           | ✓                   | ✓          | $\checkmark$ |

Note – this building product is not subject to a warning or ban under section 26 of the Building Act 2004  $\,$ 

| Specifications          |  |
|-------------------------|--|
| CODE                    | DUNBIM60   |
| TILE SIZE (mm)          | 600x600  |
| THICKNESS (mm)          | 9.5  |
| SUITABILITY             | Floor/Wall   |
| FINISH                  | Matt   |
| CLASS                   | PEI Class 3: Light to moderate traffic. Countertops, walls and floors for normal foot traffic. |
| RECTIFIED               | Yes  |
| WEIGHT (kg)             | 7.37   |
| COEFFICIENT OF FRICTION |  |
| SLIP RATING             |  |
| TILES PER BOX           | 4  |
| M2 PER BOX              | 1.44   |
| PATTERNS/FACES          | 6  |
| COUNTRY OF ORIGIN       | China  |

# Building Code Clause and Contribution

#### **B2** - Durability

Compliance with B2 Durability is about providing evidence that the product will meet the relevant durability life in the context of the environment in which it will be located.

The building code sets out the framework for establishing the relevant durability life of building elements based on a number of criteria. B2/AS1 provides a decision tree to establish the relevant durability for common building materials in different circumstances.

Having determined the durability life of the product, the next step is to determine if the product, when exposed to the environment, will continue to perform for the relevant period. A key tool which a product supplier can consider in claiming compliance is limiting the environment in which the product will be exposed to (e.g. a ferrous material used in an indoor environment will last longer than it would when exposed to salt spray — in this example it would be appropriate for the supplier to condition the compliance information to use only in indoor environments).

#### C3 - Fire affecting areas beyond the source.

C3 Fire affecting areas beyond the fire source is primarily about ensuring that fire does not spread from a fire in the building (in both vertically and horizontally) and from an adjacent building.

The prime product attribute used is the fire resistance rating (FRR) methodology. In most cases a product is combined with other products to achieve a FRR (e.g. an external wall fire rating may be formed by the combination of the external cladding, thermal insulation and the internal lining.

C/AS1 and C/AS2 set out performance criteria for buildings and in particular the FRR requirements for various types of buildings and parts of buildings. Appendix C of C/AS2 sets out test methods for the building elements involved in spread of fire. Appendix B of C/AS2 sets out performance criteria for sprinkler systems while Appendix A sets out criteria for fire safety systems such as alarms and hydrants.

#### D1 – Access routes

For D1 access routes, in most cases product-related compliance for access routes are slip resistance for floors and the shapes/locations etc of handrails. The Acceptable Solution for access D1/AS1 and NZS 4121:2001 provide good information on compliance for products on access routes.

#### E3 – Internal Moisture

E3 Internal Moisture is about ensuring that moisture created within the building does not lead to mould or create damage to adjacent buildings or structural elements in the building in which it is installed. Prevention of the creation of mould is a combination of temperature, insulation and ventilation. Prevention of water damaging other building elements is mainly about installation details (i.e. sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information.

#### G3 – Food preparation and prevention of contamination

G3 Food preparation and prevention from contamination for a product (such as a kitchen bench) is mainly associated with being easily cleaned and impervious.

G3/AS1 provides some general design details for food preparation areas but has no referenced product standards, although the document does state some acceptable materials used for surfaces. Compliance with G3/AS1 is not mandatory but provides a good benchmark for compliance.

#### G6 – Airborne and Impact Sound

For a product, G6 Airborne and impact sound is generally about systems which are designed to work together to achieve the necessary sound attenuation.

The code itself at G6.3.2 sets a quantifiable performance level: "The Sound Transmission Class of walls, floors and ceilings, shall be no less than 55" and G6.3.2 sets the impact insulation class of floors shall be no less than 55. The Acceptable Solution G6/AS1 sets out the transmission and impact insulation class of common wall systems. G6/VM1 sets out test methodologies where the details do not match those of G6/AS1.

| -                          | DECENSION DECEMBERATION DECEMB |
|----------------------------|--|
|                            | 检测报告<br>TEST REPORT  |
| 报告编号:<br>REPORT NO.:_      | 25201802085  |
| 样品名称:<br>NAME OF SAMPLE: _ | 釉面砖<br>GLAZED TILES  |
| 委托单位:<br>APPLICANT:_       | 艾斯塔四季有限公司<br>ESTAZZIONE CO.,LTD.   |
| 检验日期:<br>DATE OF TEST:_    | 27/05/2018 – 11/06/2018 (dd/mm/yy)   |
| state key tes<br>佛山出入      | 筑卫生陶瓷检测重点实验室<br>TING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE<br>境检验检疫局检验检疫综合技术中心<br>IND QUARANTINE COMPREHENSIVE TECHNOLOGY CENTRE   |

## 检测报告 TEST REPORT

报告编号: 25201802085 Report No: 共 6 页 第 2 页 Page 2 of 6

A Company of the second second

| 样品名称<br>Name of sample                      | 釉面砖<br>GLAZED TILES  | 名义尺寸<br>Nominal size (N)  | 60cm×60cm   |
|---|--|---|---|
| 表面特性<br>Nature of the surface               | 有釉砖<br>Glazed (GL)   | 工作尺寸<br>Work size (S <sub>w</sub> )   | 600mm×600mm×9.5mm   |
| 类别<br>Group                                 | BĪb  | 样品描述<br>Description of Sampl  | 样品完好,适合测试<br>The samples are sound, intact<br>and fit for test.   |
| 样品标记<br>Mark of samples                     | CA001P   | 样品数量<br>Quantity of samples   | 30 块<br>30 Pieces   |
| 委托单位<br>Applicant                           | 艾斯塔四季有限公司<br>ESTAZZIONE CO.,LTD  | 委托单位地址<br>Address of applican   |   |
| 委托单位电话<br>Telephone of applicant            | 86-757-83557350  | 委托单位传真<br>Fax of applicant  | 86-757-83557350   |
| 样品来源<br>Source of Samples                   | 委托单位自送样品<br>Samples selected by applicant  | 接样日期<br>Received on   | 27/05/2018  |
| 检验依据  |  | mic tiles with water absorp   | tion 0,5 <eb≤3% b="" b<="" group="" i="" td=""></eb≤3%>   |
| Test Standard                               | 3. DIN 51130:2010 Testing of floor of fields of activities with slip danger, we  |   | f the anti-slip properties – Workrooms an   |
| Test Standard<br>检验结论<br>Conclusion of Test | fields of activities with slip danger, w.<br>1. 样品经检验,所检验项目的检验结<br>The results conform to the requiren<br>items.<br>2. 防滑性能的检验结果见报告第 6   | alking method – Ramp test<br>结果符合 ISO 13006:2012 杨<br>nent of Annex G of standar<br>页。  | 标准中附录 G 的规定。  |
| 检验结论  | fields of activities with slip danger, w.<br>1. 样品经检验,所检验项目的检验结<br>The results conform to the requirem<br>items.   | alking method – Ramp test<br>结果符合 ISO 13006:2012 杨<br>nent of Annex G of standar<br>页。  | 活准中附录 G 的规定。<br>d ISO 13006:2012 with respect to the tes<br>地址:广东省佛山市禅城区魁奇一路消<br>石(国际)金属交易中心十八座二楼<br>Address: 2/F, Building 18, Lansh<br>International Metal Exchange Center  |
| 检验结论<br>Conclusion of Test<br>检验单位盖章        | fields of activities with slip danger, with   1. 样品经检验,所检验项目的检验结   The results conform to the requirentiems.   2. 防滑性能的检验结果见报告第6   The test results of Slip resistance sector   日期:   19/06/2018   Date:   1.   我们已尽所知所能实施上达检验。   All inspections are carried out   This report does not in any respect abso   2. 未经本实验室书面许可,不得着 | alking method - Ramp test<br>這果常合 ISO 13006:2012 杨<br>nent of Annex G of standar<br>页。<br>e Page 6.<br>检验单位联系方式<br>Address of Test<br>Unit<br>不能因签发本报告而免除有关<br>conscientiously to the<br>plue the other related parties for<br>分复制本报告;<br>cept in full, without the prior w | 准中附录 G 的规定。<br>d ISO 13006:2012 with respect to the tes<br>地址: 广东省佛山市禅城区魁奇一路湘<br>石 (国际) 金属交易中心十八座二楼<br>Address: 2/F, Building 18, Lansh<br>International Metal Exchange Center<br>Kuiqiyi Road, Chancheng District<br>Foshan, Guangdong, China (528000)<br>电话 (Tel): 86-757-83960558<br>86-757-83827991<br>传真 (Fax): 86-757-83827971<br>邮箱 (Fe-mail): fsiqtc@163.com<br>网址 (url): http://www.fsiqtc.com/<br>各方根据合同和法律所承担的责任和义务: |

检测报告

| 报告编号: 25201802085<br>Report No: | TEST REPORT              | 共6页第3页<br>Page3of6   |
|---------------------------------|--------------------------|--|
|                                 | 样品照片<br>Photo of Samples |  |
|                                 |                          |  |
|                                 | e altre to               |  |
| -                               |                          | C. S. Johnson  |
|                                 |                          | Carlos and a second sec |
|                                 | GLAZED PORCELAIN THE     |  |
|                                 | • 2085                   |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 | ,185                     |  |
|                                 |                          |  |
|                                 |                          |  |
|                                 |                          | 1. 1. 1. 1. 1.   |
|                                 |                          | FSIQTC-T 2(1)/A  |

## 检测报告 TEST REPORT

报告编号: 25201802085 Report No: 共6页第4页 Page 4 of 6

| 条款<br>Clause               | 性能<br>Properties   | 检验方法<br>Test Method | 要:<br>Require  | The second se | 检验结果<br>Results | 判定<br>Verdicts |  |  |  |
|----------------------------|--|---------------------|--|---|-----------------|----------------|--|--|--|
|                            | 尺寸和表面质量  |                     |  |   |                 |                |  |  |  |
| 付录 G<br>表 G1<br>Annex<br>G | Dimensions and surface quality<br>长度和宽度<br>Length and Width  |                     |  | ±0.6%   | -0.08%~-0.06%   | P              |  |  |  |
| G<br>G.1                   | 每块砖的平均尺寸相对于工作尺寸的<br>允许偏差为 <i>S</i> <sub>w</sub><br>The deviation, of the average size for each<br>tile (4 sides) from the work size. <i>S</i> <sub>w</sub> | ISO10545-2          | N≥15cm   | ±2.0mm  | -0.5mm~-0.3mm   | P              |  |  |  |
|                            | 厚度   |                     |  | Constant State  |                 | 34-121         |  |  |  |
|                            | Thickness  |                     |  |   |                 | <u> </u>       |  |  |  |
|                            | 制造商应声明厚度<br>The thickness shall be specified by the<br>manufacturer  | 1. – jes            | 声明<br>Declared   |   | 9.5mm           |                |  |  |  |
|                            | 每块砖厚度的平均值相对于工作尺寸<br>的最大允许偏差  | 15010545-2          | N≥15cm   | ±5%   | -1.34%~+0.68%   | P              |  |  |  |
|                            | The deviation of the average thickness of each tile from the work size thickness   | ISO10545-2          | N_150m   | ±0.5mm  | -0.1mm~+0.1mm   | P              |  |  |  |
|                            | 边直度<br>Straightness of sides<br>相对于工作尺寸的最大允许偏差   | ISO10545-2          | N≥15cm   | ±0.5%   | -0.01%~+0.01%   | Р              |  |  |  |
|                            | The maximum deviation from straightness related to the corresponding work sizes  |                     |  | ±1.5mm  | -0.1mm ~+0.1mm  | Р              |  |  |  |
|                            | 直角度<br>Rectangularity<br>相对于工作尺寸的最大允许偏差  | ISO10545-2          |  | ±0.5%   | -0.11%~+0.11%   | Р              |  |  |  |
|                            | The maximum deviation from<br>Rectangularity related to the<br>corresponding work sizes  |                     | N≥15cm   | ±2.0mm  | -0.7mm~+0.6mm   | Р              |  |  |  |
|                            | 表面平整度:最大允许偏差   |                     |  |   |                 |                |  |  |  |
|                            | Surface flatness: The maximum deviation<br>a)对于由工作尺寸计算的对角线的中心<br>弯曲度   | ISO10545-2          | N≥15cm   | ±0.5%   | +0.02%~+0.04%   | Р              |  |  |  |
|                            | a) centre curvature, related to diagonal calculated from the work size;  | 15010343-2          | N≥13cm   | ±2,0mm  | +0.1mm~+0.3mm   | Р              |  |  |  |
|                            | b)对于由工作尺寸计算的边弯曲度<br>b) edge curvature, related to the  | ISO10545-2          | N≥15cm   | ±0.5%   | +0.04%~+0.06%   | P.             |  |  |  |
|                            | corresponding work sizes;  | 1001001012          |  | ±2.0mm  | +0.2mm~+0.4mm   | Р              |  |  |  |
|                            | c)对于由于工作尺寸计算的对角线的翘曲度   | ISO10545-2          | 2 N≥15cm   | ±0.5%   | -0.08%~-0.05%   | Р              |  |  |  |
|                            | c) warpage, related to diagonal calculated from the work size.   | 13010345*2          |  | ±2.0mm  | -0.7mm~-0.5mm   | Р              |  |  |  |
|                            | 表面质量<br>Surface quality  | JSO10545-2          | 至少有 95%的<br>域无明显缺陷<br>A minimum o<br>tiles shall b<br>visible defec<br>vertically at 1.0 | f 95% of the<br>e free from<br>ts inspected   | 100%            | P              |  |  |  |

FSIQTC-T 2(1)/A

EOF AN

## 检测报告 TEST REPORT

报告编号: 25201802085 Report No: 共6页第5页 Page 5 of 6

「「「「「「」」」

| 条款<br>Clause                                 | 性能<br>Properties   | 检验方法<br>Test Method | 要求<br>Requirements                    | 检验结果<br>Results                       | 判定<br>Verdicts |  |  |  |  |
|--|--|---------------------|---------------------------------------|---------------------------------------|----------------|--|--|--|--|
| 附录 G<br>表 G.1                                | 物理性能<br>Physical properties  |                     |                                       |                                       |                |  |  |  |  |
| Annex<br>G                                   | <b>吸水率</b><br>质量分数   |                     | 0.5≤E <sub>b</sub> ≤3%                | 0.81%                                 | Р              |  |  |  |  |
| Table<br>G.1                                 | Water absorption<br>Percent mass fraction  | ISO 10545-3         | 单个值不大于3.1%<br>Individual maximum 3.1% | 0.72%~1.22%                           | P              |  |  |  |  |
|  | 破坏强度/N<br>Breaking strength, in N  | ISO 10545-4         | ≥1300                                 | 2178                                  | Р              |  |  |  |  |
|  | 断裂模数/(N/mm <sup>2</sup> )<br>Modulus of rupture, in N/mm <sup>2</sup>  | 100 10545 4         | 平均值≥35<br>Minimum 35                  | 46.5                                  | Р              |  |  |  |  |
|  | 不适用于破坏强度≥3000N 的陶瓷砖<br>Not applicable to tiles with breaking<br>strength≥3000N   | ISO 10545-4         | 单个值≥32<br>Individual minimum 32       | 44.6~48.6                             | Р              |  |  |  |  |
| 抗?"<br>Imp<br>rest<br>耐力<br>Abb<br>用二<br>Res | 抗冲击:恢复系数<br>Impact resistance: Coefficient of<br>restitution (COR)   | ISO 10545-5         | 报告检验结果<br>Test method available       | 0.88                                  |                |  |  |  |  |
|  | 耐磨性<br>Abrasion resistance   | glazed ISO 10545-7  | 报告耐磨级别<br>Report abrasion class       | 4级<br>Class 4                         |                |  |  |  |  |
|  | 用于地面的有釉砖的表面耐磨性<br>Resistance to surface abrasion of glazed<br>tiles intended for use on floors   |                     | 报告耐磨转数<br>Report cycles passed        | 750                                   |                |  |  |  |  |
|  | 线性热膨胀系数:室温~100℃<br>Coefficient of linear thermal<br>expansion: from ambient temperature to<br>100℃<br>抗热震性<br>Thermal shock resistance | ISO 10545-8         | 报告检验结果<br>Test method available       | 6.1×10 <sup>-6</sup> K <sup>-1</sup>  |                |  |  |  |  |
|  |  | ISO 10545-9         | 报告检验结果<br>Test method available       | 样品经试验, 无炸裂<br>或裂纹<br>Fully resistance | _              |  |  |  |  |
|  | 湿膨胀/(mm/m)<br>Moisture expansion, in mm/m  | ISO 10545-10        | 报告检验结果<br>Test method available       | 0.01                                  | _              |  |  |  |  |
|  | 抗釉裂性: 有釉砖<br>Crazing resistance: glazed tiles  | ISO 10545-11        | 应通过此项测试<br>Required                   | 样品经试验, 无裂纹<br>或剥落<br>Fully resistance | Р              |  |  |  |  |
|  | 抗冻性<br>Frost resistance  | ISO 10545-12        | 报告检验结果<br>Test method available       | 所有样品无裂纹或<br>破损<br>Fully resistance    | -              |  |  |  |  |
|  | 化学性能<br>Chemical properties<br>耐污染性<br>Resistance to staining  |                     |                                       |                                       |                |  |  |  |  |
|  | a)轻油中的铬绿<br>a) Green staining agent in light oil   | ISO 10545-14        | 不低于 3 级<br>Minimum Class 3            | 5级<br>Class 5                         | P              |  |  |  |  |
|  | b)轻油中的红色污染物<br>b) Red staining agent in light oil  | ISO 10545-14        | 不低于 3 级<br>Minimum Class 3            | 5级<br>Class 5                         | Р              |  |  |  |  |
|  | c) 13g/L 碘酒液<br>c) Iodine, 13g/L solution in alcohol   | ISO 10545-14        | 不低于 3 级<br>Minimum Class 3            | 5级<br>Class 5                         | Р              |  |  |  |  |
|  | d)橄榄油<br>d) Olive oil  | ISO 10545-14        | 不低于 3 级<br>Minimum Class 3            | 5级<br>Class 5                         | Р              |  |  |  |  |

## 检测报告 TEST REPORT

报告编号: 25201802085 Report No:

### 共6页第6页 Page6of6

| 条款<br>Clause                     | 性能<br>Properties   | 检验方法<br>Test Method | 要求<br>Requirements                                  | 检验结果<br>Results | 判定<br>Verdicts  |  |  |  |  |
|----------------------------------|--|---------------------|---|-----------------|---|--|--|--|--|
| 附录G                              | 耐化学腐蚀性<br>Resistance to chemicals  |                     |   |                 |   |  |  |  |  |
| 表 G.1<br>Annex                   | 耐家庭化学试剂和游泳池盐类<br>Resistance to household chemicals and swimming pool salts   |                     |   |                 |   |  |  |  |  |
| G<br>Table<br>G.1                | a) 家庭化学试剂: 氯化铵溶液, 100g/L<br>a) Household chemicals: Ammonium<br>chloride, 100g/L   | ISO 10545-13        | 不低于 GB<br>Minimum GB                                | GA(V)           | P   |  |  |  |  |
|                                  | b) 游泳池盐类: 次氯酸钠溶液, 20mg/L<br>b) Swimming pool salts: Sodium<br>hypochlorite solution, 20mg/L  | ISO 10545-13        | 不低于 GB<br>Minimum GB                                | GA(V)           | Р   |  |  |  |  |
|                                  | 耐低浓度酸和碱<br>Resistance to low concentrations of acids an  | nd alkalis          |   |                 |   |  |  |  |  |
|                                  | a) 3%盐酸溶液(v/v)<br>a) Hydrochloric acid solution, 3% (v/v)  | ISO 10545-13        | 制造商应声明等级<br>Manufacturer to state<br>classification | GLA(V)          |   |  |  |  |  |
|                                  | b) 柠檬酸溶液, 100g/L<br>b) Citric acid solution, 100g/L  | ISO 10545-13        | 制造商应声明等级<br>Manufacturer to state<br>classification | GLA(V)          |   |  |  |  |  |
|                                  | c) 氢氧化钾溶液, 30g/L<br>c) Potassium hydroxide, 30g/L  | ISO 10545-13        | 制造商应声明等级<br>Manufacturer to state<br>classification | GLA(V)          |   |  |  |  |  |
|                                  | 耐高浓度酸和碱<br>Resistance to high concentrations of acids and alkalis  |                     |   |                 |   |  |  |  |  |
|                                  | a) 18%盐酸溶液(v/v)<br>a) Hydrochloric acid solution, 18% (v/v)  | ISO 10545-13        | 报告检验结果<br>Test method available                     | GHA(V)          | $\sum_{i=1}^{N} \frac{1}{i} \sum_{i=1}^{N} \frac{1}{i} \sum_{i$ |  |  |  |  |
|                                  | b) 5 %乳酸溶液(v/v)<br>b) Lactic acid, 5 % (v/v)   | ISO 10545-13        | 报告检验结果<br>Test method available                     | GHA(V)          | -   |  |  |  |  |
|                                  | c) 氢氧化钾溶液, 100g/L<br>c) Potassium hydroxide, 100g/L  | ISO 10545-13        | 报告检验结果<br>Test method available                     | GHA(V)          |   |  |  |  |  |
| . P(ass)<br>2. F(ail)<br>3. —: 未 | F Possible test case verdicts<br>: 合格 Test item does meet the requirement.<br>: 不合格 Test item does not meet the require<br>进行判定 Verdict was not carried out.<br>不适用 Test case does not apply to the test ite |                     |   |                 |   |  |  |  |  |

| 性能   | 检验方法      | 检验结果   |
|--|-----------|--|
| Properties                                 | Method    | Results  |
| 防滑性能(倾斜平台法)<br>Slip resistance (Ramp test) | DIN 51130 | 平均临界角: 8.2°<br>防滑类别: R9<br>Mean overall acceptance angle: 9.8°<br>Slip resistance assessment group: R9 |

报告结束 End of Test Report

FSIQTC-T 2(1)/A

# FIRE PERFORMANCE BE 100% CONFIDENT IN THE PRODUCTS YOU SPECIFY



If The Grenfell Tower tragedy in London highlights the importance to specifiers of ensuring the products they specify (from flooring to cladding materials) are fire-resistant in order to conform to the building code relating to fire rating regulations.

## TILES DO NOT REQUIRE TESTING AS THEY DO NOT CONTRIBUTE TO FIRE

In New Zealand, fire ratings are required by the Building Code to ensure that if a building is on fire, its construction materials do not significantly increase the spread or intensity of a fire. Tiles, being non-combustible, do not require testing as they do not contribute to fire. Aside from this, tiles by nature do not contain any form of petroleum-based product or wood fibres and are in essence, fire-proof and non toxic!

The building code relating to fire rating regulations and standards became mandatory from April 2013, establishing the list of products belonging to Classes A 'No contribution to fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.

#### WHAT YOU NEED TO KNOW:

- Because most ceramics are manufactured at over 1000 degrees celsius, they become fire-resistant and therefore an obvious choice for both commercial and residential floor and wall surfaces. For example, if a lighted cigarette is dropped on the floor, it will not do any damage to the tile. Even hot kitchen pans or skillets will not scorch or melt the surface of tile, let alone set the tile on fire.
- Tiles are non-combustible so do not catch fire, nor do they give off toxic fumes in the form of VOC's (Volatile Organic Compounds) affecting breathing, when exposed to fire.
- During the manufacture of tiles, any VOC's that may have been present in clays or binders are completely burned away which ensures the final product is inert.





A safe and simple approach with regards to Fire performance in products is to utilise tile for both **Floor** and **Wall** areas. To view latest styles and designs to suit Commercial Projects, see our tile and stone range; https://www.tilewarehouse.co.nz/tile-stone-range/