



**IMPERVIA  
FLOORING**

Provided that our Storage Maintenance and Fitting Instructions are followed at all times the Product has the following specifications

## Impervia Porcelain Tile Product Specification & Technical Data Sheet

**Product Code: IMP-PT-ROMAN CLASSIC**

**IMPERVIA GLOSS PORCELAIN TILE**



### **Sustainability:**

Our Porcelain tiles feature a Lead and Cadmium free glaze. They are naturally formaldehyde and VOC free. They suitable for use in domestic and commercial environments as a wall or floor tile in conjunction with under floor heating.

### **Product Details**

<i>Type:</i>	<i>Porcelain Tiles</i>
<i>Size:</i>	<i>9mm thick x 600mm wide x 1200mm long</i>
<i>Finish:</i>	<i>Glazed, Gloss</i>
<i>Profile:</i>	<i>Square Edge</i>
<i>Pattern:</i>	<i>Single width tile</i>
<i>Construction:</i>	<i>Glazed Porcelain Tiles</i>
<i>Slip Resistance:</i>	<i>Awaiting Test Results</i>
<i>Grade:</i>	<i>First Grade (high quality surface, free from defects)</i>
<i>Packing:</i>	<i>Recyclable Cardboard Packaging with straps with x2 tiles per box (1.44m<sup>2</sup>)</i>
<i>Weight:</i>	<i>Approx. 21kgs/m<sup>2</sup></i>
<i>Durability:</i>	<i>Waterproof construction, stain resistant and hard wearing</i>
<i>Underfloor Heating:</i>	<i>This tile is suitable for underfloor heating</i>

### **Installation Methods:**

<i>Fully Bonded:</i>	<i>Yes</i>
<i>Over Underfloor Heating:</i>	<i>Yes, compatible for UFH subject to following the correct installation requirements.</i>

## Aesthetics and Characteristics:

Impervia Porcelain tiles are rigorously tested for conformity and quality. Our porcelain tiles comply with ISO 13006: 2018 Group BI and have been tested to ISO 10545. Please see the independent test results below:

Item	Test Method	Requirement	Result
Size (Length) (Width) (Thickness)	ISO 10545 – 2	+/- 1mm	(Avg.) 0.15mm (Avg.) 0.08mm (Avg.) 0.03mm
Straightness & Rectangularity	ISO 10545 – 2	+/- 0.8mm	(Avg.) 0.1mm
Surface flatness a. Centre Curvature b. Edge Curvature c. Warpage	ISO 10545 – 2	+/- 1.8mm	(Avg.) 0.17mm (Avg.) 0.17mm (Avg.) 0.16mm
Surface Quality	ISO 10545 – 2	95%	100% Defect Free
Water Absorption	ISO 10545 – 3	<0.5%	(Avg.) 0.05%
Breaking Strength	ISO 10545 – 4	Min. 1300N	(Avg.) 2095.85N
Modulus of Rupture	ISO 10545 – 4	Min. 35N/mn	(Avg.) 43.56N/mn
Resistance to Surface Abrasion	ISO 10545 – 7	N/A	PEI Class – IV 2100 Revolution pass
Thermal Expansion (to 100°C)	ISO 10545 – 8	9x10 <sup>-6</sup> Max.	5.07x10 <sup>-6</sup>
Thermal Shock Resistance (15-145°C)	ISO 10545 – 9	10 Cycle Min.	Confirm
Crazing Resistance (x2 one-hour cycles, steam pressure of 750+/-20kpa)	ISO 10545 – 11	No Crazing in Two Cycles	Confirm
Moisture Expansion	ISO 10545 – 10	0.02mm/m Max.	0.00mm/m Max.
Impact Resistance (COR)	ISO 10545 – 5	0.55 Min.	0.58
Surface Scratch Hardness	ISO 13630 – 13	5 moh's	5 moh's
Bulk Density	ISO 10545 – 3	2.2 g/cc Min.	2.2693 g/cc
Stain Resistance a. Light Oil (Fe2O3) b. Iodine in Alcohol 13g/l c. Olive Oil	ISO 10545 – 14	Min. Class – 3	a. Class – 5 b. Class – 4 c. Class – 5
Resistance to Low Concentration of Acid & Alkali a. Hydrochloric acid (3%) b. Citric Acid (100gm/l) c. Potassium Hydroxide (30gm/l)	ISO 10545 – 13	Min. Class – GLC	Class – GLA (Pass)
Resistance to High Concentration of Acid & Alkali a. Hydrochloric Acid (18%) b. Lactic Acid (5%) c. Potassium Hydroxide (100gm/l)	ISO 10545 – 13	Min. Class – GHC	Class – GHA (Pass)
Household Chemical Resistance a. Ammonium Chloride (100gm/l) b. Sodium Hypochlorite (20mg/l) (Swimming pool salt)	ISO 10545 – 13	Min. Class – GC	Class – GA (Pass)
Emissions a. Lead Release b. Cadmium Release	ISO10545 – 15	0.1mg/dm <sup>2</sup> Limit	0.00 mg/dm <sup>2</sup>
Slip Resistance	Tested to BS 7967-2:2002+A1:2013 (Pendulum Test in PTV values using slider 96) Results: DRY (TBC)   WET (TBC)		

**Manufacturing:** Our Porcelain tiles are with white clay with a kiln temperature of 1250 degrees. The glazing provides a water resistance finish with measured absorption rates averaging 0.05%. The tiles are suitable for use with underfloor heating and can be fitted to floors and walls. Designs are achieved using the latest digital printing systems. The porcelain has been tested against ISO 10545-2 for surface quality, the result was “first grade” meaning that it is free from defects.

**Samples:** *Small samples will give a representative example of the colour of the finished floor or wall. However, one small sample WILL NOT be representative of the overall effect of an Impervia™ Porcelain tile wall or floor. Therefore, should it be necessary to gain a better understanding of how a larger area will look, purchasing cartons for a sample area should be considered, before making a final decision.*

**Storage:** **See Impervia Storage Fitting and Maintenance Instructions part of our T&C’s**

*In order to minimise potential damages, it is advisable to store Impervia flooring away from trades or building works and to have such works completed prior to installation of the floor.*

**Fixing:** **See Impervia Storage Fitting and Maintenance Instructions part of our T&C’s**

*All Wall & Floor tiling must be fitted in accordance with BS 5385-1:2018.*

**NBS:**

*NBS specifications can be written by request once we have full details of the subfloor build up.*

**Cleaning:** **See Impervia Storage Fitting and Maintenance Instructions as per our T&C’s**

**(never use solvent cleaning solution)** *Correct cleaning and maintenance is important. Impervia Porcelain tiles can use antibacterial cleaners, steam mops etc... be sure to avoid acidic cleaners or strong solvents that may weaken the glazed finish.*

**Health & Safety:**

*Impervia Flooring is a manmade product and on its own offers no recognisable health and safety risks. When re-manufacturing any product please follow HSE advice.*

**Company Approvals:**

*We operate a stringent sustainable environmental policy; this is part of our group of companies trading under Ryder International Ltd. We are certified by all the relevant organisations and our certificate numbers can be seen below.*

*FSC® - Solid Wood Flooring Trademark License Number: FSC® C007915*

*FSC® - Solid Wood Flooring Chain of Custody Number: NC-COC-005535 HA*

*PEFC™ - Solid Wood Flooring Trademark Licence Number: PEFC/16-37-1814*

*PEFC™ - Solid Wood Flooring Certificate Number: CATG-PEFC-400-AT*

*WWF® - The Solid Wood Flooring Company achieved the highest - 3 Trees - accreditation*

**Never build onto a stone floor:** *Impervia flooring doesn’t provide a good foundation to build onto.*

*Therefore, it is important to design any cabinets and internal furniture with their own structural base and not to be sat on the tile flooring, so that should any damage occur, the floor finish can be easily repaired or removed.*