

Atria 20mm Porcelain Tiles

Properties	Roma	Florence	Siena	San Marino	Como	Milano	Torino
Tile thickness	20mm	20mm	20mm	20mm	20mm	20mm	20mm
Tile width x length (mm)*	450x900 600x1200 750x750 600x600	450x900 600x600	600x600	450x900 600x600	300x1200 600x600	300x1200 600x600	600x600
Available colours	Lead, Copper, Earth, Natural	Graphite, Millstone	Quartz Grey, Slate	Stone, Portland, Taupe	Brown, Honey	Box, Umber	Sandstone, Iron, Old Grey, Dark Grey
Material specification	Porcelain						
Surface finish	Textured RT						



Roma Florence Siena San Marino Como Milano Torino

Description

Atria 20mm thick Italian manufactured porcelain tiles available in a range of styles, sizes and colours. The first of the 'Available colours' in each style shown above (e.g. Lead-Roma).

Applications

External terrace and balcony areas and public outdoor spaces.

Installation Information¹

By mounting on adjustable pedestal systems or solid concrete bases.

Storage & Handling

The product is securely packed into cardboard boxes to ensure no movement of the product in transit. Depending on the size / weight of the consignment this may be palletised.

Whilst there is no specific weight restrictions on what is or is not safe to lift in manual handling, an assessment of the health and safety risks should be undertaken and measures taken to reduce the risk of injury so far as reasonably practicable.

The following guidelines may be useful:

- Each person should be fully trained in manual handling techniques.
- The use of handling aids such as a trolley, folk-lift, pallet truck or conveyor should be used if moving large volumes of cartons.
- Break up large consignments into more manageable loads.
- Ensure that the product is stored at a reasonable height, so avoiding the lifting of cartons from floor level or above shoulder height.
- Reduce carrying distances of cartons.

Technical Characteristics		Normal Specs	Values required n ≥ 15 cm		Atria Values
Regularity	Weight and length	ISO 10545-2	±0.6%	± 2mm	In accordance
	Thickness	ISO 10545-2	±5.0%	±5.0mm	In accordance
	Rectangularity	ISO 10545-2	±0.5%	± 2mm	In accordance
	Straightness of sides	ISO 10545-2	±0.5%	± 1.5mm	In accordance
	Surface flatness	ISO 10545-2	±0.5%	± 2mm	In accordance
Structural	Water absorption	ISO 10545-3	≤ 0.5%		≤ 0.1%
		ASTM C373			In accordance
	Breaking strength	ISO 10545-4	≥ 1300 N		> 1500 N
	Modules of rupture	ISO 10545-4	≥ 35 N/mm ²		≥ 45 N/mm ²
Breaking load class	EN 1339			U11, T11	

*Working sizes, mm: 446x895 (450x900), 596x1195 (600x1200), 748x748 (750x750), 596x596 (600x600), 297x1195 (300x1200)

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Surface	Resistance to deep abrasion	ISO 10545-6	≤ 175 mm ³	≤ 145mm ³
Thermal and hydrometric	Coefficient of linear thermal expansion	ISO 10545-8	Test method available. Declared Value	<7x10 ⁻⁶ °C ⁻¹
	Thermal shock resistance	ISO 10545-9	Test method available	Guaranteed
	Frost resistance	ISO 10545-12	Required	In accordance
Chemical	Resistance to chemicals	ISO 10545-13	Test method available. Declared Value	Guaranteed
	Resistance to staining	ISO 10545-14	Test method available. Declared Value	Guaranteed
Safety	Dynamic slider	BCRA	Test method available	> 0.4
	Static slider	ASTM C1028	Test method available	
	Inclined platform	DIN 51130	Test method available	R11

Protective Equipment

We recommend that PPE (Personal Protective Equipment) is used when installing Atria Tiles:

- Good strong safety boots/shoes to protect the feet.
- Protective eyewear such as safety glasses.
- Strong gloves to protect the hands.
- If using loud cutting equipment then ear plugs or defenders should be worn.

First Aid

The Health and Safety Regulations 1981 require all construction sites to have the following:

- A first aid box with enough equipment to cope with the number of workers on site.
- An Appointed Person to take charge of first-aid arrangements. The Appointed Person looks after first aid equipment and facilities and calls the emergency services when required. Appointed Persons do not need first aid training.
- A First-Aider who has undertaken training and holds an HSE approved qualification to administer first-aid. This means that they must hold a valid certificate of competence in either:

- First aid at work (FAW) issued by a training organisation approved by HSE
- Emergency first aid at work (EFAW) issued by a training organisation approved by HSE
- A recognised Awarding body of Ofqual/Scottish Qualifications Authority.

d) The number of first-aiders will depend on the site.

e) Information should be clearly displayed on site telling workers the name of the Appointed Person(s) or First Aider(s) and where to find them.

Fire Protection

Atria Tiles are made using porcelain which does not burn and is not a fire hazard.

Stability

Atria porcelain tiles are high performance products that are hard-wearing, frost-proof, non-slip and UV stable. They are also easy to clean and resistant to mildew, moss and algae making them exceptionally suitable for external terrace and balcony areas, and public outdoor spaces.

Environmental Issues

Atria porcelain tiles are manufactured by dry pressing and kilning a mixture of naturally occurring minerals and clays to create a stable and durable product with a long life expectancy. Porcelain tiles have a lower environmental impact than many other finishing materials: they will not act as a 'sink' absorbing volatile organic compounds (VOCs) or other chemicals from surrounding materials, nor are they a source of harmful contaminants. They can also be easily maintained without the need for solvent-based cleaners.

Supporting Documents

More information on Atria Tile products can be found at www.kinley.co.uk in the Resource Centre. In particular, look for the CAD Drawing (CD-ATOV-0116), Installation Guide (IG-ATXX-0116) and the Brochure (BR-TB-0116).

1. The *Installation Information* given in this document is intended as a guide only. We recommend that professional opinions are obtained before work is commissioned. Kinley Systems Ltd accepts no responsibility for any damage or loss as a result of using the *Installation Information*. We will be happy to engage in any discussion with regard to specific project applications.