

# ATRIA® 20MM PORCELAIN TILES

TECHNICAL DATA SHEET



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Atria® Porcelain Tiles

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Ref: **DS-AM-1223** Last update: August 2025

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## TECHNICAL DATA SHEET

### Stone

RANGE	COLOUR	PRODUCT CODE & SIZES						
		600x600	450x900	600x900	600x1200	1200x1200	1200x2400	300x600
Asti	Carbon	410010	-	-	410015	-	-	-
	Mushroom	410011	-	-	410016	-	-	-
	Smoke	410012	-	-	410017	-	-	-
	Talc	410013	-	-	410018	-	-	-
	Taupe	410014	-	-	410019	-	-	-
Florence	Graphite	402013	402011	-	-	402015	402018	-
	Millstone	402014	402010	-	-	402016	402020	-
	Silver	402030	402025	-	-	402017	402022	-
Modena	Ivory	*	-	-	407023	-	-	407021*
	Smoke	*	-	-	407025	-	-	407022*
	String	*	-	-	407024	-	-	407020*
Modica	Pewter	415012	-	-	-	-	-	-
	Silver	415013	-	-	-	-	-	-
Novara	Ashen	-	-	461107	-	-	-	-
	Cameo	-	-	461101	-	-	-	-
	Ember	-	-	461104	-	-	-	-
	Slate	-	-	461110	-	-	-	-
Roma	Earth	404026	404013	-	-	-	-	-
	Lead	404027	404014	-	404017	404038	404042	-
	Natural	404029	404015	-	404018	404039	-	-
Taranto	Charcoal	408025	408028	-	-	-	-	-
	Hessian	408024	408029	-	-	-	-	-
	Steel	408023	408026	-	-	-	-	-
Lucca	Pearl	419005*	-	-	419001	-	-	-
	Ivory	419006*	-	-	419002	-	-	-
	Beige	419007*	-	-	419003	-	-	-
	Grey	419008*	-	-	419004	-	-	-

\* On request

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## Concrete

RANGE	COLOUR	PRODUCT CODE & SIZES			
		300x600	600x600	900x900	1200x1200
Pavia	Cloud	-	416010	-	416014
	Urban	416018*	416012	-	416015
	Shadow	-	416013	-	-
Venice	Anthracite	-	406011	-	406021
	Beige	-	406012	-	-
	Grey	-	406013	-	406019
	Mocha	-	406014	-	406020

\* On request

## Terrazzo

RANGE	COLOUR	PRODUCT CODE & SIZES	
		600x600	1200x1200
Padua	Thunder	417010	417011

For LRV ratings please reach out to a member of the team.

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### Packaging and weights

TILE SIZE	THICKNESS	BOX SPECIFICATION			PALLET SPECIFICATION		
		PIECES/ BOX	SQM/ BOX	Kg/ BOX	TILES/ PALLET	SQM/ PALLET	Kg/ PALLET
300 x 1200	20mm	2	0.72	≈33.05	72	25.92	≈1203
600 x 600	20mm	2	0.72	≈30.70	60	21.60	≈934
450 x 900	20mm	2	0.81	≈37.40	54	21.87	≈1028
600 x 900	20mm	2	1.08	≈48.50	48	25.92	≈1182
600 x 1200	20mm	1	0.72	≈33.77	35	25.20	≈1202
900 x 900	20mm	1	0.81	≈38.00	36	14.58	≈699
1200 x 1200	20mm	1	1.43	≈67.10	20	28.56	≈1377
1200 x 2400	20mm	1	2.86	≈134.20	9	25.70	≈1303

### Working size and weights

TILE SIZE	ACTUAL RECTIFIED SIZE	M <sup>2</sup> /TILE	KG/TILE
600 x 600	596 x 596	0.3600	≤16.53
600 x 900	596 x 895	0.5400	≤24.25
300 x 1200	297 x 1195	0.3600	≤16.53
600 x 1200	596 x 1195	0.7200	≤33.77

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## Slip resistance

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED	ATRIA® VALUES
Dynamic slider	BCRA	Test method available	>0.4
Static slider	ASTM C1028	Test method available	-
Inclined platform	DIN 51130	Test method available	R11
Pendulum test value (PTV) - dry	BS EN 14231	36+	72
Pendulum test value (PTV) - wet	BS EN 14231	36+	65

## Uniformly distributed load (UDL) testing TO BS EN 1991-1-1:2002

	LOAD VALUE
RaafT Preventa System incorporating Atria Porcelain Tiles	30.36 kN/m <sup>2</sup> (kPa)
RaafT Preventa System incorporating Farrino Porcelain Tiles	30.03 kN/m <sup>2</sup> (kPa)

## Point load tests TO BS EN 1991-1-1:2002

	MEAN LOAD VALUE
RaafT Preventa System incorporating Atria Porcelain Tiles	7.02 kN***
RaafT Preventa System incorporating Farrino Porcelain Tiles	6.32 kN***

\*\*\* Prior to failure by way of the tile cracking

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### Regularity characteristics

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED		ATRIA® VALUES
Length and width	UNI EN ISO 10545-2	±0.3%	±1mm	Compliant
Thickness	UNI EN ISO 10545-2	±5.0%	±0.5mm	Compliant
Squareness	UNI EN ISO 10545-2	±0.3%	±1.5mm	Compliant
Straightness of sides	UNI EN ISO 10545-2	±0.3%	±0.8mm	Compliant
Surface flatness	UNI EN ISO 10545-2	±0.4%	±1.8mm	Compliant

### Structural characteristics

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED		ATRIA® VALUES
Water absorption	UN EN ISO 10545-3	≤0.5%		≤0.1%
	ASTM C373			In accordance
Breaking strength	UN EN ISO 10545-4	≥1300N		≥10,000N
Modulus of rupture	UN EN ISO 10545-4	≥35mm <sup>3</sup>		Compliant

### Surface characteristics

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED		ATRIA® VALUES
Resistance to deep abrasion	UN EN ISO 10545-6	≤175mm <sup>3</sup>		≤155mm <sup>3</sup>

### Thermal and hygrometric characteristics

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED		ATRIA® VALUES
Coefficient of linear thermal expansion	UN EN ISO 10545-8	Test method available		Test method available
Thermal shock resistance	UN EN ISO 10545-9	Resistant		Compliant
Frost resistance	UN EN ISO 10545-12	Resistant		Compliant

### Chemical characteristics

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED		ATRIA® VALUES
Chemical resistance	UN EN ISO 10545-13	Resistant		Compliant
Stain resistance	UN EN ISO 10545-14	Resistant		Compliant

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### Natural Stone

#### LIMESTONE



Natural Beige    Brushed Beige    Brushed White    Beige Etched

#### BASALT



Flamed Black    Flamed Grey

#### SALT



Slate Rustic    Slate Grey

#### GRANITE



Grey    White

#### STONE



Lucca Ivory    Lucca Grey    Lucca Pearl    Lucca Beige



Asti Taupe    Modena Ivory    Modena Smoke    Modena String



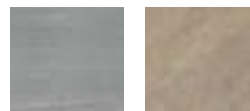
Novara Slate    Novara Ember    Novara Cameo    Novara Ashen



Florence Milestone    Florence Graphite    Florence Silver    Modica Silver



Asti Talc    Asti Smoke    Asti Carbon    Asti Mushroom



Roma Lead    Roma Natural

### Concrete



Venice Beige    Venice Grey    Venice Anthracite    Venice Mocha



Pavia Cloud    Pavia Urban

### Terrazzo



Padua Thunder    Natural

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## Installation information

Refer to the install guide for further information.

## Sustainability

Atria® porcelain tiles are made by pressing and baking a mix of natural minerals and clays. This process creates strong and long-lasting tiles. Unlike many other materials, these tiles are eco-friendly. They don't soak up harmful chemicals or release contaminants. They're also easy to clean without needing strong chemicals.

## Product maintenance

Our Atria® tiles are easy to clean and resist most chemicals. They're UV stable and only have 0.01% porosity. It's a good idea to clean them once or twice a year, depending on local weather conditions. Use a high-pressure cleaner from at least 20cm away or scrub with a mild all-purpose cleaner and water. For daily cleaning, just sweep regularly and rinse with water, a soft brush, and a mild cleaner or suds.

## Protective equipment

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

## Storage and handling

In preparation for delivery, Atria® tiles are securely packed into cardboard boxes to ensure no movement during transit.

Depending on the size and weight of the consignment they may be palletised. Until the point of installation, the tiles should be stored fully packed in a dry environment.

## Fire rated

Fire rated in accordance with BS EN 13501-1 to achieve a BROOF(t4) classification. Consult our certification documents for verification.

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### Accessories

#### Venice clip

Our product stemmed from valuable feedback received from a domestic building grappling with water pooling issues on their porcelain tiles. After meticulous contemplation and design efforts spanning several months, the solution was crafted.

The predicament of water pooling takes on greater significance with the introduction of new materials to the UK market. Despite tiles boasting ratings of R11 or higher, the accumulation of water transforms into ice during winter, prompting the exclusion of porcelain from specifications on roof terraces nationwide.

Enter our innovative product, poised to address this challenge effectively. Raft® now offers a solution enabling water drainage from tiles within a precise 1-hour timeframe, aligning seamlessly with NHBC 9.1.15 guidelines. According to these standards, standing water post-rain should neither exceed 5mm in depth nor cover an area surpassing 1m<sup>2</sup>.

We prioritise subtlety, employing transparent materials potentially matching Raft®'s specified tiles. The Venice clip is designed to break the surface tension of the tile, similar to a grout joint where porcelain tiles are installed on cement. When porcelain is installed onto a loose laid system the joints are exposed which means the files fill with water due to surface tension.

The product is flush to the surface reducing the chances of feet being caught.

During installation, especially in wind uplift scenarios, our design incorporates a clip securely inserted into the groove. This not only ensures a snug fit but also acts as a protective 'buffer' between tiles, facilitating removal and reinstallation without compromising structural integrity.



Venice Clip Push – this item serves as a universal solution for all porcelain within the RAAFT® collection.



Venice Clip Uplift

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### Wind uplift

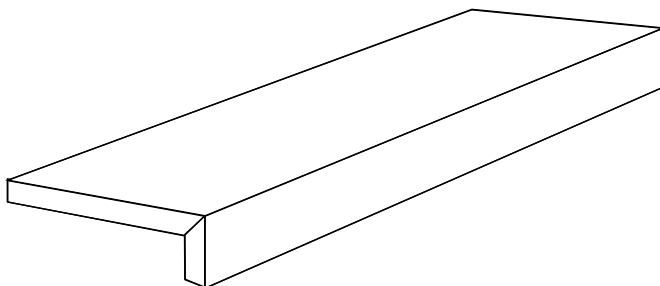
This product has been tested and complies with BS EN 1991-1-4:2005+A1:2010. Please consult our certification for verification.



### Step Dimensions

Step dimensions: 900 × 450 × 150 and 120 × 450 × 150.

Please contact us if you require different sizes.



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