Atria[®] 20mm Porcelain Tiles

Technical datasheet







Atria® Porcelain Tiles



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STONE								
DANICE				PR	ODUCT CODE & S	SIZES		
RANGE	COLOUR	600x600	450x900	600x900	600x1200	1200x1200	1200x2400	300x600
	Carbon	410010	-	-	410015	-	-	-
	Mushroom	410011	-	-	410016	-	-	-
Asti	Smoke	410012	-	-	410017	-	-	-
	Talc	410013	-	-	410018	-	-	-
	Таире	410014	-	-	410019	-	-	-
	Graphite	402013	402011	-	-	402015	402018	-
Florence	Millstone	402014	402010	-	-	402016	402020	-
	Silver	402030	402025	-	-	402017	402022	-
	lvory	*	-	-	407023	-	-	407021*
Modena	Smoke	*	-	-	407025	-	-	407022*
	String	*	-	-	407024	-	-	407020*
NA II	Pewter	415012	-	-	-	-	-	-
Modica	Silver	415013	-	-	-	-	-	-
	Ashen	-	-	461107	-	-	-	-
N	Cameo	-	-	461101	-	-	-	-
Novara	Ember	-	-	461104	-	-	-	-
	Slate	-	-	461110	-	-	-	-
	Copper	404025	404016	-	-	-	-	-
P	Earth	404026	404013	-	-	-	-	-
Roma	Lead	404027	404014	-	404017	404038	404042	-
	Natural	404029	404015	-	404018	404039	-	-
	Charcoal	408025	408028	-	-	-	-	-
Taranto	Hessian	408024	408029	-	-	-	-	-
	Steel	408023	408026	-	-	-	-	-
	Pearl	419005*	-	-	419001	-	-	-
	lvory	419006*	-	-	419002	-	-	-
Lucca	Beige	419007*	-	-	419003	-	-	-
	Grey	419008*	-	-	419004	-	-	-

* On request



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CONCRETE

RANGE	COLOUR	PRODUCT CODE & SIZES					
KANGE	COLOOR	300x600	600x600	900x900	1200x1200		
	Cloud	416023*	416010	-	416014		
D .	Ochre	416017*	416011	-	-		
Pavia	Urban	416018*	416012	-	416015		
	Shadow	416019*	416013	-	-		
	Anthracite	-	406011	406018	406021		
Venice	Beige	-	406012	406015	-		
	Grey	-	406013	406016	406019		
	Mocha	-	406014	406017	406020		

* On request

TERRAZZO

DANCE	COLOUR	PRODUCT CODE & SIZES		
RANGE	COLOOK	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

		BOX SPECIFICATION			PALLET SPECIFICATION		
TILE SIZE	THICKNESS	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	<u>≊</u> 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 WEIGHT

TILE SIZE	ACTUAL RECTIFIED SIZE	M2/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	<u>≤</u> 16.53
600 x 1200	596 x 1195	0.7200	≤33.77



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SLIP RESISTANCE

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED	
Dynamic slider	BCRA	Test method available	>0.4
Static slider	ASTM C1028	Test method available	-
Inclined platform	DIN 51130	Test method available	RII
Pendulum test value (PTV) - dry	BS EN 14231	36+	72
Pendumul 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/m² (kPa)
Raaft Preventa System incorporating Farrino Porcelain Tiles	30.03 kN/m² (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		
Length and width	UNI EN ISO 10545-2	±0.3%	±lmm	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 ASTM C373	<u>≺</u> 0.5%	<u>≼</u> 0.1% In accordance
Breaking strength	UN EN ISO 10545-4	<u>≥</u> 1300N	<u>≥</u> 10,000N
Modulus of rupture	UN EN ISO 10545-4	<u>≥</u> 35mm³	Compliant

SURFACE CHARACTERISTICS

TECHNICAL FEATURES	SPECIFICATION	VALUES REQUIRED	ATRIA® VALUES
Resistance to deep abrasion	UN EN ISO 10545-6	<u>≤</u> 175mm³	<u>≤</u> 155mm³

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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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.

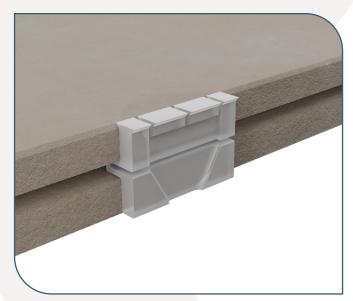
Enter our innovative product, poised to address this challenge effectively. Raaft® now offers a solution enabling water drainage from tiles within a precise 1-hour timeframe, aligning seamlessly with NHBC 9.1.15 guidelines. According to these standards, standing water post-rain should neither exceed 5mm in depth nor cover an area surpassing 1m². We prioritise subtlety, employing transparent materials potentially matching Raaft®'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.







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