



Sadlerstone

chic unique engineered

Product & Technical Specification

Sadler Tiles Pty Ltd

455 Somerville Rd, Brooklyn, VIC 312

Australia

+61 3 9314 9303

Disclaimer:

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Product Specification

Product Name

Sadlerstone

Manufacturer Head Office

Sadler Tiles Pty Ltd
455 Somerville Rd, Brooklyn, VIC 3012 Australia
+61 3 9314 9303
www.sadlerstone.com

Description

Precision engineered concrete stone

Production Sizes

Size mm	Thickness mm	Size Inches	Thickness Inches	Possible usage
303 x 303 303 x 202	10, 15	12 x 12 12 x 8	3/8, 5/8	Standard (retail/commercial/residential)
	20		3/4	Extra Heavy Duty (vehicle traffic)
	25		1	Extra Heavy Duty Plus (sand gravel bed)
405 x 405 405 x 303	10, 15	16 x 16 16 x 12	5/8	Standard (retail/commercial/residential)
	20		3/4	Extra Heavy Duty (vehicle traffic)
	25		1	Extra Heavy Duty Plus (sand gravel bed)
608 x 608 608 x 405 608 x 303	15	24 x 24 24 x 16 24 x 12	5/8	Standard (retail/commercial/residential)
	20		3/4	Extra Heavy Duty (vehicle traffic)
	25		1	Extra Heavy Duty Plus (sand gravel bed)
811 x 405 811 x 303	20	32 x 16 32 x 12	3/4	Standard (retail/commercial/residential)
	25		1	Extra Heavy Duty (vehicle traffic)
1200 x 1200 1200 x 600 1200 x 400	25	48 x 48 48 x 24 48 x 16	1	Standard (retail/commercial/residential)

Custom sizes available.

Colours

Signature Collection

Alabaster	Beige	Taupe	Fossil	Concrete	Ebony
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Contemporary Collection

Ivory	Valencia	Mocha	Taupe	Olive	Coal
Latté	Shale	Pearl	Sable	Fossil	Pewter
Mulberry					

Mode Collection

Alabaster	Acier	Azure	Acacia	Diablo
Espresso	Wild Iris	Lichen		

Warranty

15 year limited warranty on wear

Constituents

Sand (35-45%)
Cement (15-25%)
Water (5-7%)
Granite Aggregate (30-40%)
Pigment (0.3 – 0.7%)
Water Conditioner (0.2%)

Installation

Install over a flat, level substrate using a cement based adhesive (manufacturer recommends Mapei Granirapid) ensuring each tile is backbuttered. Grout with a colour matching grout and seal with penetrating sealer to reduce acid aggregation and help ease of maintenance.

Environmental Impact

- While most poured concrete floors require annual resealing and waxing, Sadlerstone premium-quality concrete tiles require only one initial application of a penetrating sealer. On an ongoing basis, tiles need only a wet mop with a neutral detergent.
- Rather than baking or firing, which is often the case with hard-surface flooring alternatives, Sadlerstone is manufactured in efficient sized slabs which are left to naturally cure at ambient temperatures, ensuring an overall lower embodied energy.
- Natural inorganic oxides colour the stone, ensuring the tiles remain colourfast.
- Sadlerstone recycles all manufacturing by-products and by operates a closed-loop manufacturing system with zero emissions to air, water or land.
- In addition, as an agglomerate of natural materials, Sadlerstone itself is recyclable and can be used in numerous post consumer applications.

Technical Specification

Technical

	10mm 3/8'	15mm 5/8'	20mm 3/4'	25mm 1'	40mm 1 1/2'
Recommended maximum width / length ratios	1 : 1	1 : 1.5	1 : 2	1 : 2	1 : 3
Tiles: average kilograms per square meter (kg/m ²)	25	38	50	63	100
Tile: average pounds per square foot (lb/ft ²)	5	7.5	10	12.5	20

Tile Tolerances

Typical	Size/Rectangularity: $\pm 0.75\text{mm}$ Thickness: $\pm 0.5 - 1.5\text{mm}$ Max Curvature: $\pm 0.5\%$
Installation	Flooring: Adhesive fix only using materials and procedures in Sadlerstone technical literature. Cladding: Adhesive or mechanically fix.
Recommended Grout Joints	Flooring: 2 mm – 5 mm (1/8" – 1/4") or minimum 0.5% of long side of tile. Cladding: As specified for installation method/materials (min 0.5%).
Expansion Joints	As per engineer's details or maximum intervals of 6m (20') for interior and 4.5m (15') for exterior applications.
Sealing	Supplied with impregnating primer seal. Apply further impregnator after initial clean. As surface is subject to acid aggression (eg. lemon juice, vinegar), food area tiles should be fully sealed.
Colour Fastness	Negligible change in colour over 5 years.
Warranty	A limited warranty against wear is provided.

Slip and Durability Tests Conducted by Smith-Emery Laboratories, California, USA

Test Type	Results						
Static Coefficient of Friction (ASTM C 1028-96) Smooth tile after cleaning	<table border="1"> <thead> <tr> <th>Test Condition</th> <th>Individual SCOF</th> </tr> </thead> <tbody> <tr> <td>Dry Neolite</td> <td>0.85</td> </tr> <tr> <td>Wet Neolite</td> <td>0.88</td> </tr> </tbody> </table>	Test Condition	Individual SCOF	Dry Neolite	0.85	Wet Neolite	0.88
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Abrasion Resistance (ASTM C 1353-96)	Average Abrasive Wear Index:						
Robinson Floor Test	HEAVY COMMERCIAL Classification as per TCA installation handbook						
Freeze/Thaw	No significant change or material erosion after 25 cycles						

Slip and Durability Tests Australian Laboratories

Test Type	Results	Test Type (AS/NZS 4586 – 2004)	BPN*	Class
Compressive Strength (min)	60 mpa (8,702 psi)	Smooth Tile: Wet Slip	36	X
Flexural Strength	60 mpa (8,702 psi)	Textured Tile: Wet Slip	62	V
		Terrazzo Tile: Wet Slip	59	V

*BPN = British Pendulum Number. Class refers to Australian Standard (AS/NZS 4586 - 2004) for slip resistance. The Australian standard states that "factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface after classification."