



Technical Product Overview

3D Wall Tiles

3D Wall Tiles are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a manufacturer's guarantee for a period of no less than 20 years to meet all of the performance properties stated in this guarantee. This guarantee excludes damage caused by daily wear and tear, contamination (including moisture, dust, or stains), fading or discoloration from sunlight exposure, and any issues resulting from incorrect installation or improper maintenance.

Specification

Product Name	3D Wall Tiles	
Description	100% polyester thermally molded, needle punched tile	
		Imperial
Tile Dimensions	Classic	22.6" x 22.6"
	S5.46	19.6" x 22.6"
Tile Tolerance		(+/- 0.2") x (+/- 0.2")
Thickness		Tiles range from 1" to 5 1/2" Refer to Data Sheet for specific thickness values.
Depth Tolerance		(+/- 0.2")
Weight		1680 gsm

Physical Description/ Properties

Boiling Point:	N/A
Melting Point:	482°F
Vapor Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash Point:	N/A
Explosive Limits:	N/A
Solubility in Water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapor Density:	N/A



Acoustic Performance

3D Wall Tiles are specifically designed to reduce and control reverberated noise and echo in building interiors.

Minimum Noise Reduction Coefficient (NRC): 0.75

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
3D Wall Tiles	0.15	0.45	0.65	0.90	0.90	0.80	0.75
3D Wall Tiles S-5.37, S-5.46	0.15	0.65	0.60	0.70	0.75	0.70	0.65

Service

For further information about 3D Wall Tiles or any other Autex Acoustics® product, please contact your account manager or visit momentumco.com.

Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

Product Specifications

Composition

100% polyester fiber from polyethylene terephthalate (PET). 3D Wall Tiles contains a minimum of 49% recycled polyester fiber.

Suitable Applications

Decorative and functional acoustic tile for retail, education, hospitality and commercial interiors.

Fire Ratings

3D Wall Tiles have been evaluated using the following test methods:

ASTM E84 - 14

(12 mm 3D Wall Tiles)

Class A, FS:0 - SD:10

Report RJ3297-10

VOC Emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product. VOC concentration: 0.009 mg/m³ (7 days).

Water Vapor Sorption

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapor absorbed and adsorped after 4 days: 0.4% by weight.

Microbial Resistance

ASTM G21-15
Growth rating: 0 (No growth)
3D Wall Tiles do not promote the growth of molds and mildew.

Color Fastness to Light

3D Wall Tiles are suitable for indoor use only. Light fastness is dependent on use and exposure. 3D Wall Tiles has been evaluated to the following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

Color Fastness to Rubbing

ISO 105-X12:2016
Dry rating: 4-5 (Highest = 5)
Wet rating: 4-5 (Highest = 5)

Pattern Repeat

Non-woven. No pattern repeat, but the product has a directional grain. Product may vary from samples and batch to batch due to fiber blending and lay-up, which is an inherent feature of this product.

Fabric Care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and using excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean, dry cloth after each application of the solution.

Custom printed 3D Wall Tiles require the service of a specialist cleaning company. Refer to the Autex Acoustics Care and Maintenance Guide for more information.

Autex Acoustics®

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