

Horizon™

Manufacturer's Guarantee

Horizon[™] panels are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under ISO 9001 and ISO 14001 certified Environmental and Quality 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 ten years to meet all of the performance properties stated within this guarantee.

Panel fixing system patent	US Patent 10,113,312	!									
Specification	Product Name	Horizon™									
	Description 100% polyester lightweight semi-rigid panel.										
		Imperial									
	Dimensions	F	Ava Please refer to He	ilable in 6 (orizon Data	-			mensio	ns		
	Tolerance		Available in 6 geometric shapes. Please refer to Horizon Datasheet for individual Tolerance								
	Thickness		1"								
	Tolerance		(+/- 6%)								
	Weight		12oz/ft²								
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	Horizon is specific designed to reduce		Frequency (Hz	z) 125	250	500	1000	2000	4000	Per Unit	
	control reverberati		Horizon Oval (Fixed on clips)	0.3	1.0	2.4	3.3	3.3	3.2	2.5	
	a copy of the full a	acoustic	Horizon Oval (1" Suspended 8")	0.8	2.1	2.9	3.3	3.8	3.9	3.0	

Horizon Oval

Horizon Oval

(1" Suspended 32")

2.7

2.8

3.7

4.3

4.8

4.4

4.8

3.1

3.4

2.0

1.7

1.4

1.1

report please contact your

Autex account manager.



Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
•	Horizon Rectangle (Fixed on clips)	0.3	1.0	2.4	3.3	3.3	3.2	2.5
•	Horizon Rectangle (1" Suspended 8")	0.8	2.1	2.9	3.3	3.8	3.9	3.0
•	Horizon Rectangle (1"Suspended 16")	1.4	2.0	2.7	3.7	4.3	4.4	3.1
•	Horizon Rectangle (1" Suspended 32")	1.1	1.7	2.8	4.1	4.8	4.8	3.4

Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
•	Horizon Square (Fixed on clips)	0.2	1.5	1.3	1.7	1.7	1.6	1.3
•	Horizon Square (1" Suspended 8")	0.2	1	1.5	1.7	2.1	2.1	1.6
•	Horizon Square (1" Suspended 16")	0.5	1	1.3	1.8	2.2	2.3	1.6
•	Horizon Square (1" Suspended 32")	0.7	0.8	1.4	2.1	2.5	2.4	1.7

Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
•	Horizon Right Angle Triangle (Fixed on clips)	0.1	0.2	0.6	1.0	1.0	0.9	0.7
•	Horizon Right Angle Triangle (1" Suspended 8")	0.1	0.5	0.7	0.8	1	1.1	0.8
•	Horizon Right Angle Triangle (1" Suspended 16")	0.1	0.5	0.6	0.9	1.1	1.2	0.8
•	Horizon Right Angle Triangle (1" Suspended 32")	0.2	0.3	0.7	1.0	1.2	1.2	0.8

Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
•	Horizon Circle (Fixed on clips)	0.1	0.4	1.0	1.3	1.4	1.3	1.0
•	Horizon Circle (1" Suspended 8")	0.2	0.8	1.2	1.3	1.6	1.6	1.2
•	Horizon Circle (1" Suspended 16")	0.4	0.8	1.1	1.5	1.8	1.8	1.3
•	Horizon Circle (1" Suspended 32")	0.4	0.6	1.1	1.6	1.9	1.9	1.3



Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
•	Horizon Hexagon (Fixed on clips)	0.1	0.4	0.8	1.0	1.1	1.0	0.8
•	Horizon Hexagon (1" Suspended 8")	0.1	0.5	0.7	0.9	1.1	1.2	0.8
•	Horizon Hexagon (1" Suspended 16")	0.2	0.4	0.7	1.0	1.3	1.3	0.9
•	Horizon Hexagon (1" Suspended 32")	0.2	0.4	0.7	1.1	1.4	1.4	0.9

Service

For further information about Horizon, please contact your Autex account manager or visit our website.

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). Horizon contains a minimum of 60% previously recycled polyester fiber.

Suitable Applications

Suspended or wall mounted acoustic panels.

Fire Ratings

Horizon is made from Cube™ as the base material Cube has been evaluated using the following test methods

ISO 9705: 1993

Classification: Group 1-S Smoke Production Rate: <5.0m2/s As required by NZBC C/VM2

AS ISO 9705 - 2003

Australian Group Number: Group 1 (SMOGRARC):

less than 100m2/s2

Tested using methodology AS ISO 9705.2003 in accordance with AS 5637.12015, as required by BCA Specification C1.10-4. FAR 4055

BS EN 13501-1:2018

Wall applications Classification: B-s2,d2

(Cube[™] 1")

Tested using BS EN ISO 11925-2:2020 and BS EN 138232020 and classified in accordance with BS EN 13501-12018, as required by BS EN 15102-2007 + A12011. EUI-21-000135-G-A

Ceiling applications Classification: B-s2,d2

(Cube[™] 1")

Tested using BS EN ISO 11925-2-2020 and BS EN IS0 13823-2020 and classified in accordance with BS EN 13501-12018, as required by BS EN 13964-2014. EUI-21-000135-G-B

ASTM E-84-15a

Class A, FS:0 - SD:65

VOC Emissions

Autex 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) Horizon does not promote the growth of moulds and mildew.

Color Fastness To Light

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

Mechanical Testing

To support the load and seismic calculations of your project's design, we have undertaken extensive destructive testing of Autex ceiling system components. For detailed mechanical testing information please contact your Autex account manager.

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 product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up, which is an inherent feature of this product.

Finish

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 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 solution. Horizon is made from 24mm Cube as the base material. Custom printed Cube requires the services of a specialist cleaning company. Refer to the Horizon Care and Maintenance Guide for more information





Autex Industries Ltd

702-718 Rosebank Rd Private Bag 19988 Avondale 1746, Auckland New Zealand Freephone 0800 428 839 Phone +64 9 828 9179 Fax +64 9 828 5810

Autex Australia Pty Ltd

166 Bamfield Road PO Box 5099 West Heidelberg, Melbourne VIC 3081, Australia Freephone 1800 678 160 Phone +61 3 9457 6700 Fax +61 3 9457 1020

Autex Acoustics Ltd

Unit J4, Lowfields Way, Lowfields Business Park, Elland, West Yorkshire Hx5 9Da United Kingdom Phone +44 0 1422418899

Autex Acoustics LLC

1630 Dan Kipper Dr, Riverside, CA 92507 United States of America Phone +1 424 203 1813

An ISO 9001, ISO 14001 and ISO 45001 certified company. The brand names and logos mentioned herein are registered or unregistered trademarks either owned or used under license by Autex Industries Limited or other members of the Autex Group. The contents of this document are protected by Copyright 2021 Autex Industries Ltd. All Rights Reserved. It is the user's responsibility to determine if the product and information presented in this document is suitable for the intended application by engaging a suitably qualified consultant. The information contained in this cornect to the best of our knowledge at the date of its publication. To verify that this document is the most current publication please check our website or contact your Autex account manager.