



**Autex
Acoustics®**

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 AU Patent 2016250499	GB Patent 2,545,789 NZ Patent app 725770
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Specification	Product name Horizon™ Description 100% polyester lightweight semi-rigid panel.
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Metric	
Dimensions	Available in 6 geometric shapes. Please refer to Horizon Data Sheet for individual dimensions
Thickness	24mm
Tolerance	(+/- 6%)
Weight	3600gsm

Physical description/properties	Boiling point:	N/A
	Melting point:	250°C
	Vapour 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 vapour density:	N/A

Acoustic performance	Horizon Oval is specifically designed to reduce and control reverberation and echo noise in building interiors.	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
		Horizon Oval (Fixed on clips)	0.3	1.0	2.5	3.3	3.3	3.1	2.5
		Horizon Oval (24 mm suspended 200 mm)	0.7	2.1	2.9	3.2	3.8	3.9	3.0
		Horizon Oval (24 mm suspended 400 mm)	1.5	2.0	2.6	3.7	4.2	4.3	3.2
		Horizon Oval (24 mm suspended 800 mm)	1.0	1.8	2.8	4.1	4.8	4.8	3.4



Acoustic performance	Horizon Rectangle is specifically designed to reduce and control reverberation and echo noise in building interiors.	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
●	Horizon Rectangle (Fixed on clips)	0.3	1.0	2.5	3.3	3.3	3.1	2.5	
●	Horizon Rectangle (24 mm suspended 200 mm)	0.7	2.1	2.9	3.2	3.8	3.9	3.0	
●	Horizon Rectangle (24 mm suspended 400 mm)	1.5	2.0	2.6	3.7	4.2	4.3	3.2	
●	Horizon Rectangle (24 mm suspended 800 mm)	1.0	1.8	2.8	4.1	4.8	4.8	3.4	
Acoustic performance	Horizon Square is specifically designed to reduce and control reverberation and echo noise in building interiors.	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
●	Horizon Square (Fixed on clips)	0.2	0.5	1.3	1.7	1.7	1.6	1.3	
●	Horizon Square (24 mm suspended 200 mm)	0.2	1.0	1.5	1.7	2.0	2.1	1.6	
●	Horizon Square (24 mm suspended 400 mm)	0.5	1.0	1.3	1.8	2.2	2.3	1.6	
●	Horizon Square (24 mm suspended 800 mm)	0.7	0.8	1.4	2.1	2.5	2.4	1.7	
Acoustic performance	Horizon Right Angle Triangle is specifically designed to reduce and control reverberation and echo noise in building interiors.	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin 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 (24 mm suspended 200 mm)	0.1	0.5	0.7	0.8	1.0	1.1	0.8	
●	Horizon Right Angle Triangle (24 mm suspended 400 mm)	0.1	0.5	0.6	0.9	1.1	1.2	0.8	
●	Horizon Right Angle Triangle (24 mm suspended 800 mm)	0.2	0.3	0.7	1.0	1.2	1.2	0.8	
Acoustic performance	Horizon Circle is specifically designed to reduce and control reverberation and echo noise in building interiors.	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
●	Horizon Circle (Fixed on clips)	0.1	0.4	1.0	1.3	1.4	1.3	1.0	
●	Horizon Circle (24 mm suspended 200 mm)	0.2	0.8	1.2	1.3	1.6	1.6	1.2	
●	Horizon Circle (24 mm suspended 400 mm)	0.4	0.8	1.1	1.5	1.8	1.8	1.3	
●	Horizon Circle (24 mm suspended 800 mm)	0.4	0.6	1.1	1.6	1.9	1.9	1.3	



Acoustic performance	Horizon Hexagon is specifically designed to reduce and control reverberation and echo noise in building interiors.	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
	● Horizon Hexagon (Fixed on clips)	0.1	0.4	0.8	1.0	1.1	1.0	0.8	
	● Horizon Hexagon (24 mm suspended 200 mm)	0.1	0.5	0.7	0.9	1.1	1.2	0.8	
	● Horizon Hexagon (24 mm suspended 400 mm)	0.2	0.4	0.7	1.0	1.3	1.3	0.9	
	● Horizon Hexagon (24 mm suspended 800 mm)	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	Ceiling applications Classification: B-s2, d0 (Cube™ 24 mm) Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. 7191343095-MEC24/03-JV								
Suitable Applications	ASTM E-84-15a Class A, FS:0 - SD:65 (Cube™ 24 mm) RJ4479-1								
Fire Ratings	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)								
ISO 9705: 1993	Water Vapour Sorption ASTM C1104 / C1104M-13a Test conditions: 49°C, 95%RH Water vapour absorbed and adsorbed after 4 days: 0.4% by weight								
AS ISO 9705 - 2003	Microbial Resistance ASTM G21-15 Growth Rating: 0 (No growth) Horizon does not promote the growth of moulds and mildew.								
Classification: Group 1-S									
Smoke Production Rate:									
<5.0m²/s									
As required by NZBC C/VM2									
Classification: Group 1									
(SMOGRArc): <100m²/s2									
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, as required by NCC Specification 7: Fire Hazard properties: S7C4 FI 4974 FAR 4055									
BS EN 13501-1:2018									
Wall applications									
Classification: B-s2, d0									
(Cube™ 24 mm)									
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.									
7191343095-MEC24/03-JV									
● New Zealand	United Kingdom 702-718 Rosebank Road, Private Bag 19988, Avondale 1746, Auckland T 0800 428 839 T +64 9 828 9179 autexacoustics.co.nz								
	United States 742 S Hill Street, Suite 501, Los Angeles, CA 90014 T +1 424 203 1813 autexacoustics.com								

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