



**Autex  
Acoustics®**

Horizon™

Distributed by



Data Sheet

#### Product overview

Horizon™ is a range of floating acoustic panels that create a cloud-like illusion when suspended. Made from 100% polyester fibre, Horizon panels are lightweight yet strong—holding form over their lifetime. Horizon can be installed on ceilings and walls without the need for clear space, as the channels, clips, and suspension wires require limited contact.

#### Panel fixing system patent

US Patent 10,113,312  
AU Patent 2016250499  
GB Patent 2,545,789  
NZ Patent app 725770

#### Specification

Acoustic panels shall be Horizon ( ) as compiled by Autex
























Acoustic absorber Horizon  
(Rectangle 2400 x 1200 mm),  
(Square 1200 x 1200 mm),  
(Circle 1200 mm Diam.),  
(Right Angled Triangles 1159 x 1159 mm),  
(Oval 2400 x 1200 mm),  
(Hexagons 1100 mm across the widest point)  
24 mm thick. Colour ( ),

Fire Rating ISO 9705: 1993: Group 1-S,  
AS ISO 9705 – 2003: Group 1,  
1" BS EN 13501-1:2018: B - s2, d2,  
ASTM E-84-15a: Class A, FS:0 - SD:45.

Seismic bracing as per local building  
code requirements.

Supplied with Autex attachment,  
suspension, or direct fix sets; fix with  
countersunk fastener appropriate for  
the substrate. Install as per Horizon  
Install Instructions.

#### Colour options

 Falling Water	 Rosada	 Beehive
 Galaxy	 Opera	 Parthenon
 Pinnacle	 Senado	 Sargazo
 Petronas	 Acros	
 Empire	 Bosco	
 Flatiron	 Lotus	
 Savoye	 Tree House	
 Pavilion	 Gherkin	
 Ironbank	 Muralla	
 Zenith	 Cavalier	



## Product specifications

Product name	Horizon™ Oval
Composition	100% polyester fibre
Panel dimensions	1200 mm x 2400 mm
Tolerance	(+/- 0.5 mm) (+/- 0.5 mm)
Thickness	24 mm
Tolerance	(+/- 6%)
Weight	3600 gsm





## Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website [www.grayking.com.au](http://www.grayking.com.au)

In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer.

## Acoustic performance

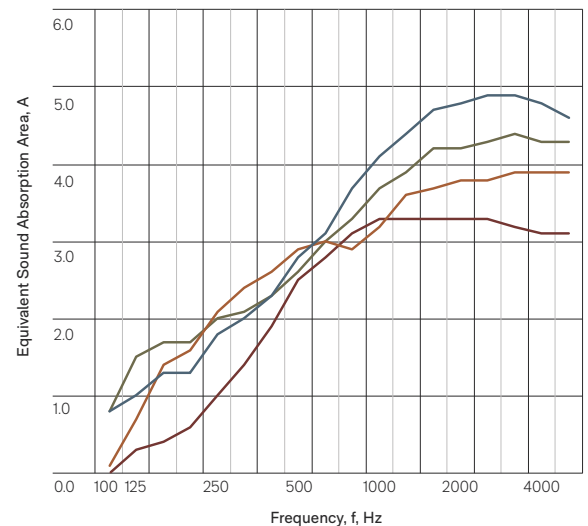
Horizon Oval is specifically designed to reduce and control reverberated noise and echo in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
 <b>Horizon Oval</b> (Fixed on clips)	0.3	1.0	2.4	3.3	3.3	3.2	2.5
 <b>Horizon Oval</b> (24 mm suspended 200 mm)	0.8	2.1	2.9	3.3	3.8	3.9	3.0
 <b>Horizon Oval</b> (24 mm suspended 400 mm)	1.4	2.0	2.7	3.7	4.3	4.4	3.1
 <b>Horizon Oval</b> (24 mm suspended 800 mm)	1.1	1.7	2.8	4.1	4.8	4.8	3.4

All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz, and 2000 Hz, and rounded to the nearest 0.05.

## Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service

Horizon Oval direct fixed on clips - Test No: T1805-1  
Horizon Oval suspended 200 mm - Test No: T1805-22  
Horizon Oval suspended 400 mm - Test No: T1805-21  
Horizon Oval suspended 800 mm - Test No: T1805-11



## Product specifications

Product name	Horizon™ Rectangle
Composition	100% polyester fibre
Panel dimensions	1200 mm x 2400 mm
Tolerance	(+/- 0.5 mm) (+/- 0.5 mm)
Thickness	24 mm
Tolerance	(+/- 6%)
Weight	3600 gsm

## Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website [www.grayking.com.au](http://www.grayking.com.au)

In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer.



## Acoustic performance

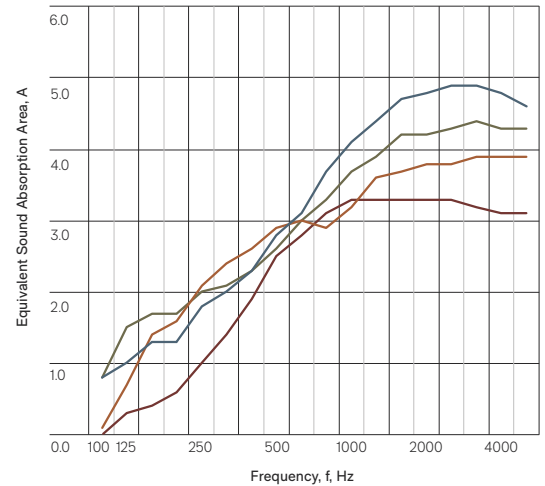
Horizon Rectangle is specifically designed to reduce and control reverberated noise and echo in building interiors.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
● <b>Horizon Rectangle</b> (Fixed on clips)		0.3	1.0	2.4	3.3	3.3	3.2	2.5
● <b>Horizon Rectangle</b> (24 mm suspended 200 mm)		0.8	2.1	2.9	3.3	3.8	3.9	3.0
● <b>Horizon Rectangle</b> (24 mm suspended 400 mm)		1.4	2.0	2.7	3.7	4.3	4.4	3.1
● <b>Horizon Rectangle</b> (24 mm suspended 800 mm)		1.1	1.7	2.8	4.1	4.8	4.8	3.4

All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

### Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service

Horizon Rectangle direct fixed on clips - Test No: T1805-1  
 Horizon Rectangle suspended 200 mm - Test No: T1805-22  
 Horizon Rectangle suspended 400 mm - Test No: T1805-21  
 Horizon Rectangle suspended 800 mm - Test No: T1805-11



## Product specifications

<b>Product name</b>	Horizon™ Square
<b>Composition</b>	100% polyester fibre
<b>Panel dimensions</b>	1200 mm x 1200 mm
<b>Tolerance</b>	(+/- 0.5 mm) (+/- 0.5 mm)
<b>Thickness</b>	24 mm
<b>Tolerance</b>	(+/- 6%)
<b>Weight</b>	3600 gsm

### Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website [www.grayking.com.au](http://www.grayking.com.au)

In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer.

## Acoustic performance

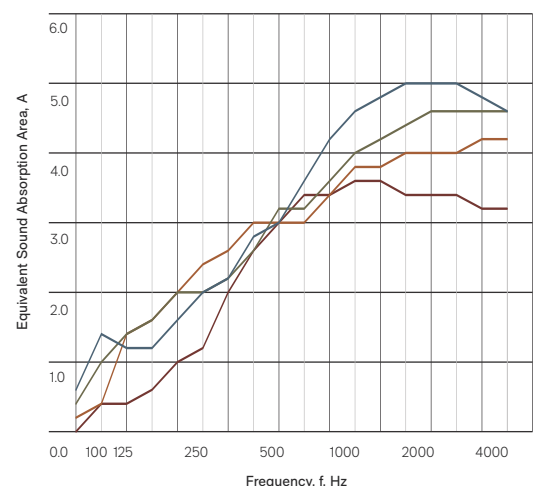
Horizon Square is specifically designed to reduce and control reverberated noise and echo in building interiors.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
● <b>Horizon Square</b> (Fixed on clips)		0.2	1.5	1.3	1.7	1.7	1.6	1.3
● <b>Horizon Square</b> (24 mm suspended 200 mm)		0.2	1	1.5	1.7	2.1	2.1	1.6
● <b>Horizon Square</b> (24 mm suspended 400 mm)		0.5	1	1.3	1.8	2.2	2.3	1.6
● <b>Horizon Square</b> (24 mm suspended 800 mm)		0.7	0.8	1.4	2.1	2.5	2.4	1.7

All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz, and rounded to the nearest 0.05.

### Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service

Horizon Square direct fixed on clips - Test No: T1805-2  
 Horizon Square suspended 200 mm - Test No: T1805-14  
 Horizon Square suspended 400 mm - Test No: T1805-13  
 Horizon Square suspended 800 mm - Test No: T1805-12





## Product specifications

Product name	Horizon™ Right Angle Triangle
Composition	100% polyester fibre
Panel dimensions	1159 mm x 1159 mm
Tolerance	(+/- 0.5 mm) (+/- 0.5 mm)
Thickness	24 mm
Tolerance	(+/- 6%)
Weight	3600 gsm

## Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website [www.grayking.com.au](http://www.grayking.com.au)

In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer.

## Acoustic performance

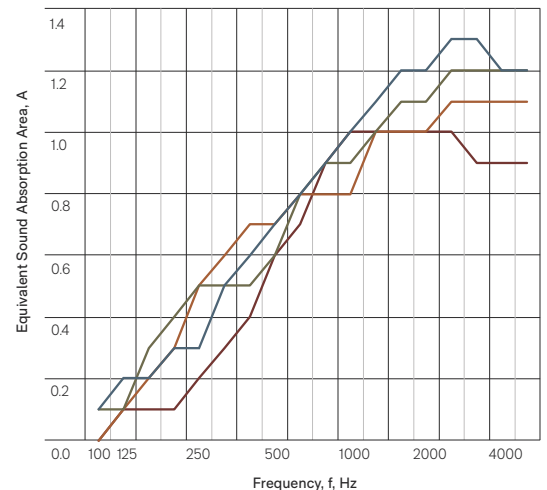
Horizon Right Angle Triangle is specifically designed to reduce and control reverberated noise and echo in building interiors.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
●	<b>Horizon Right Angle Triangle</b> (Fixed on clips)	0.1	0.2	0.6	1.0	1.0	0.9	0.7
●	<b>Horizon Right Angle Triangle</b> (24 mm suspended 200 mm)	0.1	0.5	0.7	0.8	1	1.1	0.8
●	<b>Horizon Right Angle Triangle</b> (24 mm suspended 400 mm)	0.1	0.5	0.6	0.9	1.1	1.2	0.8
●	<b>Horizon Right Angle Triangle</b> (24 mm suspended 800 mm)	0.2	0.3	0.7	1.0	1.2	1.2	0.8

All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

## Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service

Horizon Right Angle Triangle direct fixed on clips - Test No: T1805-3  
Horizon Right Angle Triangle suspended 200 mm - Test No: T1805-19  
Horizon Right Angle Triangle suspended 400 mm - Test No: T1805-20  
Horizon Right Angle Triangle suspended 800 mm - Test No: T1805-10



## Product specifications

Product name	Horizon™ Circle
Composition	100% polyester fibre
Panel dimensions	1200 mm diam.
Tolerance	(+/- 0.5 mm)
Thickness	24 mm
Tolerance	(+/- 6%)
Weight	3600 gsm

## Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website [www.grayking.com.au](http://www.grayking.com.au)

In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer.



## Acoustic performance

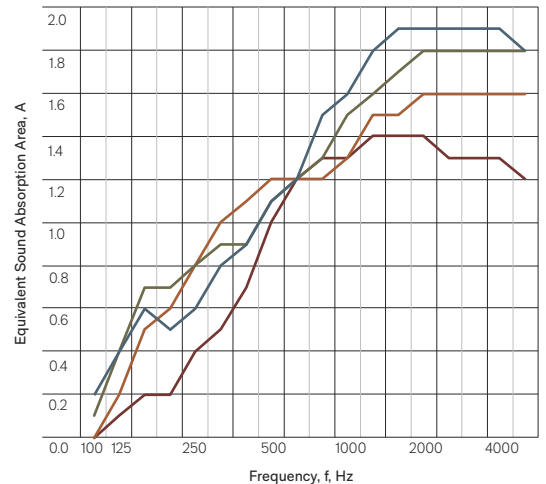
Horizon Circle is specifically designed to reduce and control reverberated noise and echo in building interiors.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
● <b>Horizon Circle</b> (Fixed on clips)		0.1	0.4	1.0	1.3	1.4	1.3	1.0
● <b>Horizon Circle</b> (24 mm suspended 200 mm)		0.2	0.8	1.2	1.3	1.6	1.6	1.2
● <b>Horizon Circle</b> (24 mm suspended 400 mm)		0.4	0.8	1.1	1.5	1.8	1.8	1.3
● <b>Horizon Circle</b> (24 mm suspended 800 mm)		0.4	0.6	1.1	1.6	1.9	1.9	1.3

All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

### Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service

Horizon Circle direct fixed on clips - Test No: T1805-5  
 Horizon Circle suspended 200 mm - Test No: T1805-15  
 Horizon Circle suspended 400 mm - Test No: T1805-16  
 Horizon Circle suspended 800 mm - Test No: T1805-9



## Product specifications

<b>Product name</b>	Horizon™ Hexagon
<b>Composition</b>	100% polyester fibre
<b>Panel dimensions</b>	1100 mm across the widest point
<b>Tolerance</b>	(+/- 0.5 mm)
<b>Thickness</b>	24 mm
<b>Tolerance</b>	(+/- 6%)
<b>Weight</b>	3600 gsm

### Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website [www.grayking.com.au](http://www.grayking.com.au)

In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer.

## Acoustic performance

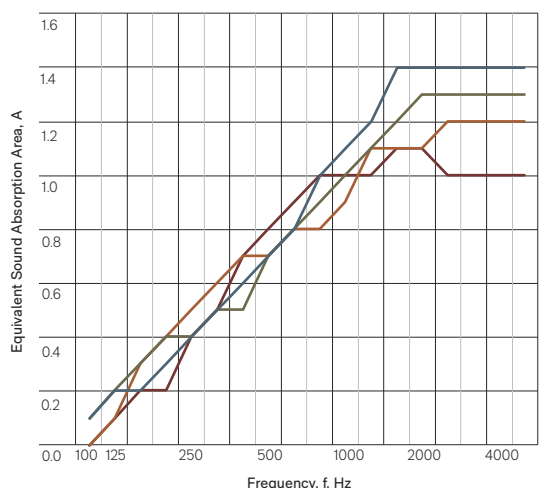
Horizon Circle is specifically designed to reduce and control reverberated noise and echo in building interiors.

	Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
● <b>Horizon Hexagon</b> (Fixed on clips)		0.1	0.4	0.8	1.0	1.1	1.0	0.8
● <b>Horizon Hexagon</b> (24 mm suspended 200 mm)		0.1	0.5	0.7	0.9	1.1	1.2	0.8
● <b>Horizon Hexagon</b> (24 mm suspended 400 mm)		0.2	0.4	0.7	1.0	1.3	1.3	0.9
● <b>Horizon Hexagon</b> (24 mm suspended 800 mm)		0.2	0.4	0.7	1.1	1.4	1.4	0.9

All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

### Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service

Horizon Hexagon direct fixed on clips - Test No: T1805-4  
 Horizon Hexagon suspended 200 mm - Test No: T1805-18  
 Horizon Hexagon suspended 400 mm - Test No: T1805-17  
 Horizon Hexagon suspended 800 mm - Test No: T1805-8





## Product specifications

### 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:  
<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Australian Group Number:  
Group 1 (SMOGRARC):  
less than 100m<sup>2</sup>/s<sup>2</sup>

Tested using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4.  
FAR 4055

#### BS EN 13501-1:2018

Wall applications  
Classification: B-s2,d2  
(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.  
EUI-21-000135-G-A

#### Ceiling applications

Classification: B-s2,d2  
(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.  
EUI-21-000135-G-B

#### ASTM E-84-15a

Class A, FS:0 - SD:65  
RJ4479-1

### 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/m<sup>3</sup> (7 days)

### 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

### Microbial resistance

ASTM G21-15  
Growth rating: 0 (No growth)  
Horizon does not promote the growth of moulds and mildew.

### Colour 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 account manager.

### Colour 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.

### 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. Custom printed Horizon requires the services of a specialist cleaning

company. Refer to the Horizon Care and Maintenance Guide for more information.

### Environmental

Autex Acoustics is committed to best practice through our ISO 14001 certified Environmental Management Systems.

Horizon contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Horizon is manufactured from 100% polyester fibre and does not contain formaldehyde binders. Autex Acoustics polyester fibre supports safer indoor air quality and will not become a potential airborne pollutant.

### Service

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

## Light reflectance values by colour

Horizon is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Pavilion	80	Galaxy	15
Opera	49	Lotus	14
Savoye	46	Ironbank	13
Senado	45	Cavalier	12
Rosada	44	Muralla	9
Acros	40	Gherkin	8
Falling Water	34	Empire	5
Parthenon	33	Sargazo	4
Beehive	33	Pinnacle	3
Bosco	29	Tree House	3
Flatiron	24	Petronas	2
Zenith	23		



## Caring for the environment

Horizon is manufactured using 100% polyester fibre and contains a minimum of 60% recycled fibre (from PET plastics). Our products are designed to be recycled at the end of their life too.

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, Health Product Declaration (HPD), and CDHP Standard certified.

Horizon is made from Cube which is DeclareSM certified to be Red List free and can be used in Living Building Challenge projects. Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.



**Declare.**



## Distributed by



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