



**Product
overview**

Horizon™ is a range of floating acoustic panels that create a cloud-like illusion when suspended. Made from 100% polyester fiber, 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

Specification

Acoustic panels shall be Horizon (L) as compiled by Autex www.autexglobal.com
























Acoustic absorber Horizon
(Rectangle 3.93' x 7.87'),
(Square 3.93' x 3.93'),
(Circle 3.93' Diam.),
(Right Angled Triangles 3.93' x 3.93'),
(Oval 3.93 x 7.87'),
(Hexagons 3.60' across the widest point)
1" thick. Color (L),

Fire Rating ISO 9705: 1993: Group 1-S,
AS ISO 9705 – 2003: Group 1,
24 mm 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.

Color 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 fiber |
| Panel dimensions | 3.93' x 7.87' |
| Tolerance | (+/- 0.2") x (+/- 0.2") |
| Thickness | 1" |
| Tolerance | (+/- 6%) |
| Weight | 12 oz/ft ² |

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website www.autexglobal.com

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

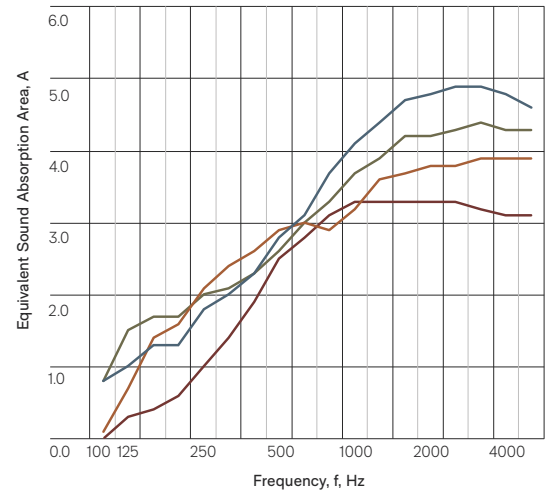
Horizon Oval is specifically designed to reduce and control reverberated noise and echo in building interiors.

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | Per unit |
|-----------------------------------|-----|-----|-----|------|------|------|----------|
| ● Horizon Oval (Fixed on clips) | 0.3 | 1.0 | 2.4 | 3.3 | 3.3 | 3.2 | 2.5 |
| ● Horizon Oval (1" suspended 8") | 0.8 | 2.1 | 2.9 | 3.3 | 3.8 | 3.9 | 3.0 |
| ● Horizon Oval (1" suspended 16") | 1.4 | 2.0 | 2.7 | 3.7 | 4.3 | 4.4 | 3.1 |
| ● Horizon Oval (1" suspended 32") | 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 centered 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 8" - test no: T1805-22
 Horizon Oval suspended 16" - test no: T1805-21
 Horizon Oval suspended 32" - test no: T1805-11



Product specifications

| | |
|------------------|-------------------------|
| Product name | Horizon™ Rectangle |
| Composition | 100% polyester fiber |
| Panel dimensions | 3.93' x 7.87' |
| Tolerance | (+/- 0.2") x (+/- 0.2") |
| Thickness | 1" |
| Tolerance | (+/- 6%) |
| Weight | 12 oz/ft ² |

Installation

Install as per Autex recommendations. Install instructions are included in each pack or available on the website www.autexglobal.com

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

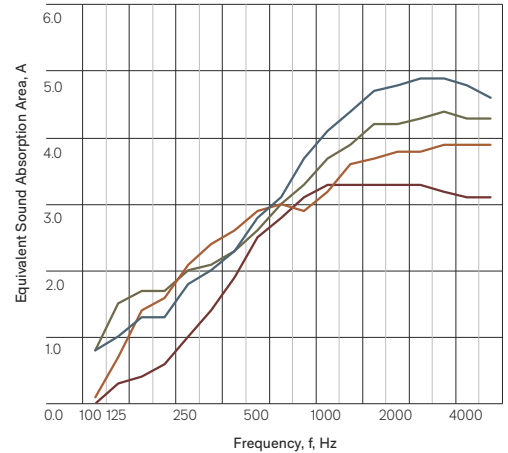
Horizon Rectangle is specifically designed to reduce and control reverberated noise and echo in building interiors.

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | Per unit |
|--|-----|-----|-----|------|------|------|----------|
| 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 |

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 centered 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 8" - test no: T1805-22
 Horizon Rectangle suspended 16" - test no: T1805-21
 Horizon Rectangle suspended 32" - test no: T1805-11



Product specifications

| | |
|-------------------------|-------------------------|
| Product name | Horizon™ Square |
| Composition | 100% polyester fiber |
| Panel dimensions | 3.93' x 3.93' |
| Tolerance | (+/- 0.2") x (+/- 0.2") |
| Thickness | 1" |
| Tolerance | (+/- 6%) |
| Weight | 12 oz/ft ² |

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website www.autexglobal.com

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

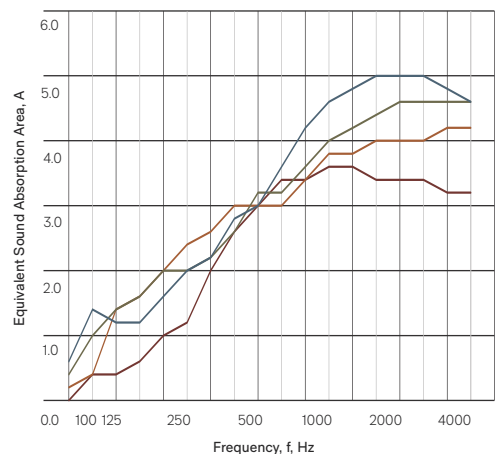
Horizon Square is specifically designed to reduce and control reverberated noise and echo in building interiors.

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | Per unit |
|---|-----|-----|-----|------|------|------|----------|
| 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 |

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 centered 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 8" - test no: T1805-14
 Horizon Square suspended 16" - test no: T1805-13
 Horizon Square suspended 32" - test no: T1805-12





Product specifications

| | |
|-------------------------|-------------------------------|
| Product name | Horizon™ Right Angle Triangle |
| Composition | 100% polyester fibre |
| Panel dimensions | 3.93' x 3.93' |
| Tolerance | (+/- 0.2") x (+/- 0.2") |
| Thickness | 1" |
| Tolerance | (+/- 6%) |
| Weight | 12 oz/ft ² |

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website www.autexglobal.com

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

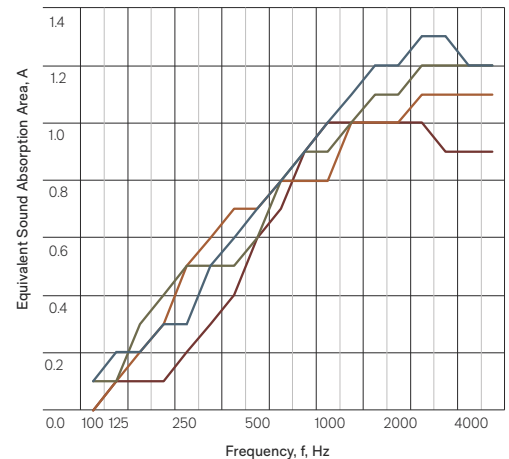
Horizon Right Angle Triangle is specifically designed to reduce and control reverberated noise and echo in building interiors.

| | Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | Per unit |
|---|----------------|-----|-----|-----|------|------|------|----------|
| ● 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 |

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 centered 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 8" - test no: T1805-19
 Horizon Right Angle Triangle suspended 16" - test no: T1805-20
 Horizon Right Angle Triangle suspended 32" - test no: T1805-10



Product specifications

| | |
|-------------------------|-----------------------|
| Product name | Horizon™ Circle |
| Composition | 100% polyester fiber |
| Panel dimensions | 3.93' diam. |
| Tolerance | (+/- 0.2) |
| Thickness | 1" |
| Tolerance | (+/- 6%) |
| Weight | 12 oz/ft ² |

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website www.autexglobal.com

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

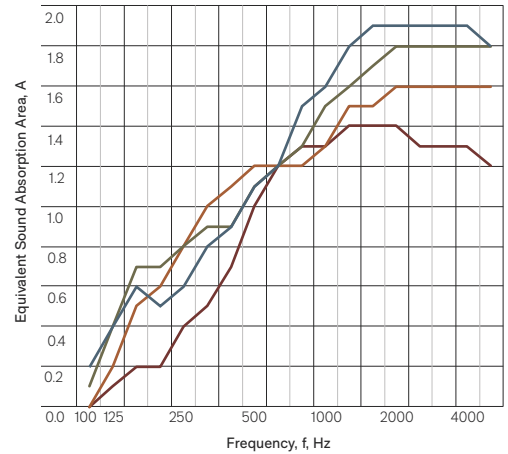
Horizon Circle is specifically designed to reduce and control reverberated noise and echo in building interiors.

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | Per unit |
|---|-----|-----|-----|------|------|------|----------|
| ● 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 |

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 centered 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 8" - test no: T1805-15
 Horizon Circle suspended 16" - test no: T1805-16
 Horizon Circle suspended 32" - test no: T1805-9



Product specifications

| | |
|-------------------------|-------------------------------|
| Product name | Horizon™ Hexagon |
| Composition | 100% polyester fiber |
| Panel dimensions | 3.60' across the widest point |
| Tolerance | (+/- 0.2") |
| Thickness | 1" |
| Tolerance | (+/- 6%) |
| Weight | 12 oz/ft ² |

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website www.autexglobal.com

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

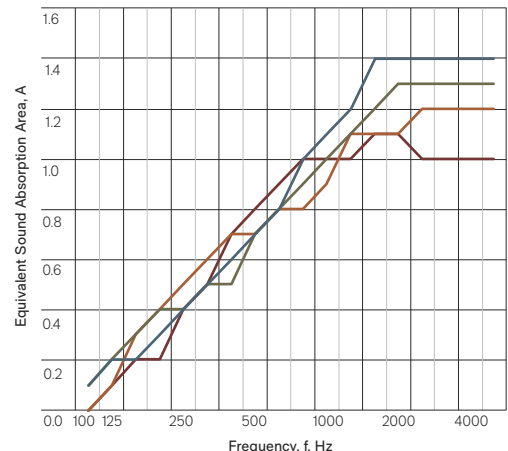
Horizon Circle is specifically designed to reduce and control reverberated noise and echo in building interiors.

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | Per unit |
|--|-----|-----|-----|------|------|------|----------|
| ● 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 |

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 centered 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 8" - test no: T1805-18
 Horizon Hexagon suspended 16" - test no: T1805-17
 Horizon Hexagon suspended 32" - 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: <5.0m²/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 5637:2015, as required by BCA Specification C110-4.
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 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™ 1")

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 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)
Horizon does not promote the growth of molds 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 Acoustics ceiling system components. For detailed mechanical testing information please contact your 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 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. 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 fiber (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Horizon is manufactured from 100% polyester fiber and does not contain formaldehyde binders. Autex Acoustics polyester fiber 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 color

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 |
| Savoie | 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 fiber and contains a minimum of 60% recycled fiber (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.



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