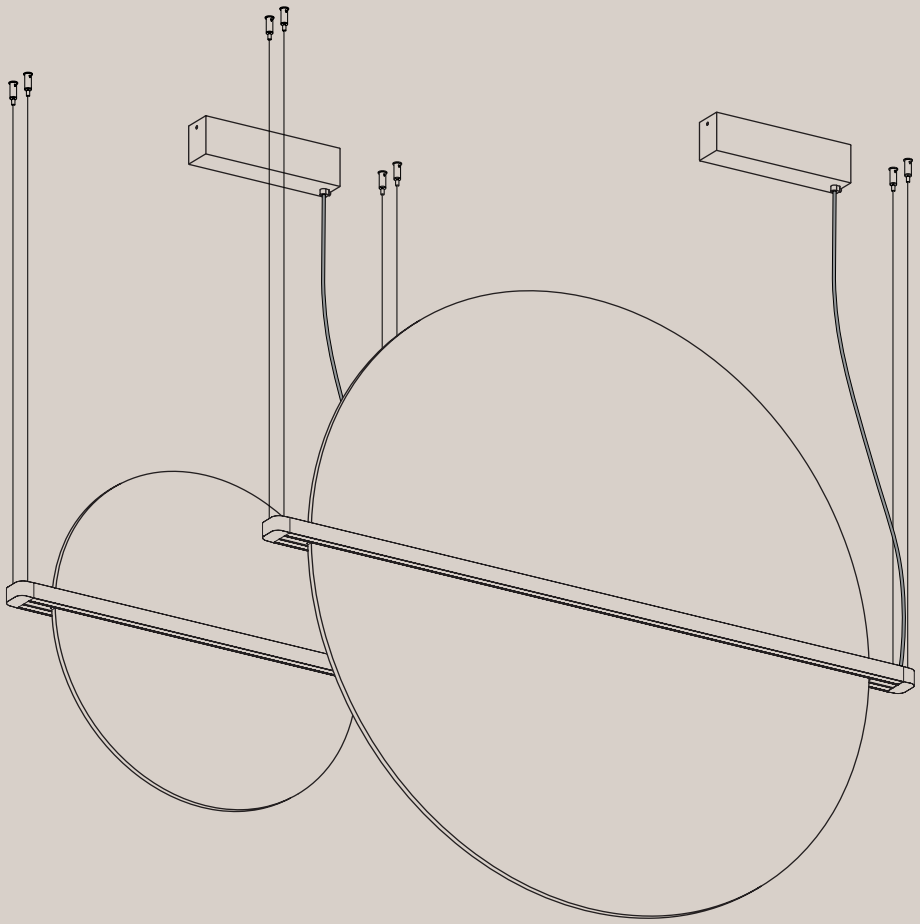
IMPACT ACOUSTIC®



HORIZON

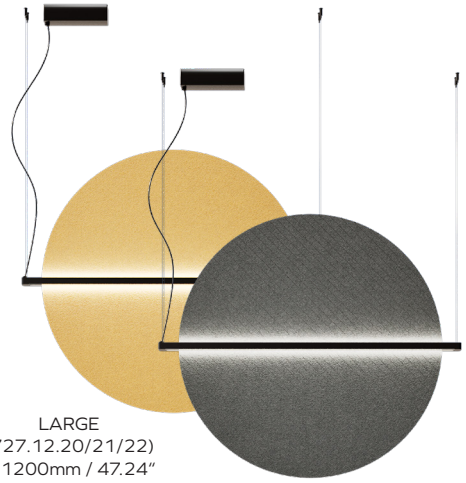
Acoustic Lighting

Global Market:
727.12.10.000.00.00
727.12.11.000.00.00
727.12.12.000.00.00
727.12.20.000.00.00
727.12.21.000.00.00
727.12.22.000.00.00

TECHNICAL DATA SHEET

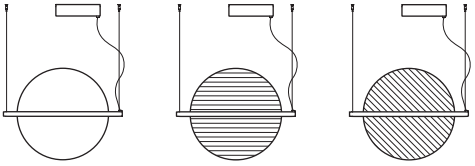
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HORIZON
Acoustic Lighting



ARTICLE NUMBERS

MEDIUM
(727.12.10/11/12)
Ø 600mm / 23.62"

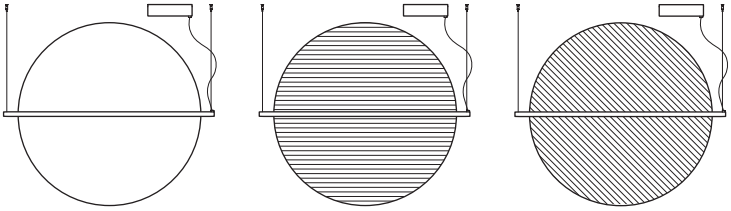


PLAIN
(727.12.10)

HORIZONTAL V-CUT
(727.12.11)

OBLIQUE V-CUT
(727.12.12)

LARGE
(727.12.20/21/22)
Ø 1200mm / 47.24"



PLAIN
(727.12.20)

HORIZONTAL V-CUT
(727.12.21)

OBLIQUE V-CUT
(727.12.22)

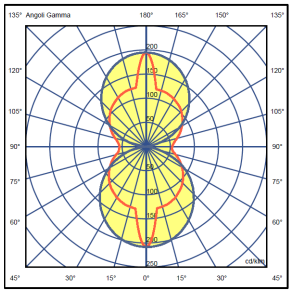
Lighting Product	Product Size	Colour code	Dimming	CCT	Market Voltages
727.12.	**10.** (Medium, Plain) **11.** (Medium, Horizontal) **12.** (Medium, Oblique)	Choose colour as shown on pg. 3	**DALI** (Global Market)	**30** (3000 K) **40** (4000 K) (different CCT on request)	**Standard Voltage** (220 - 240 V)
	20. (Large, Plain) **21.** (Large, Horizontal) **22.** (Large, Oblique)				

Example: 727.12.21.706.00.40
Horizon Large [(Ø1200mm /47.24", Horizontal V-Cut, Spearmint 706 colour, DALI, 4000K, 220-240V (EU)]

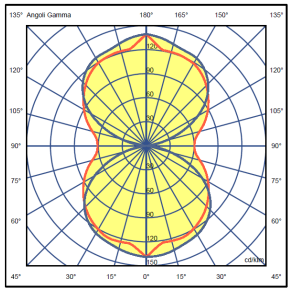
LIGHTING SPECIFICATIONS

	727.12.10		727.12.20	
Wattage (W)	45		82	
CCT (K)	3000	4000	3000	4000
Lumen LED source (lm)	4320	4395	9360	9410
Total Lumen Output (lm)	1950	1984	3520	3580
Efficacy (lm/W)	44	45	44	45
Diffuser	Opal			
Dimming	DALI			
CRI	>90			
Voltage (V)	220 - 240 V			
Driver Location	Ceiling Canopy			

LIGHT DISTRIBUTION GRAPH



727.12.10
Horizon Medium



727.12.20
Horizon Large

CERTIFICATIONS

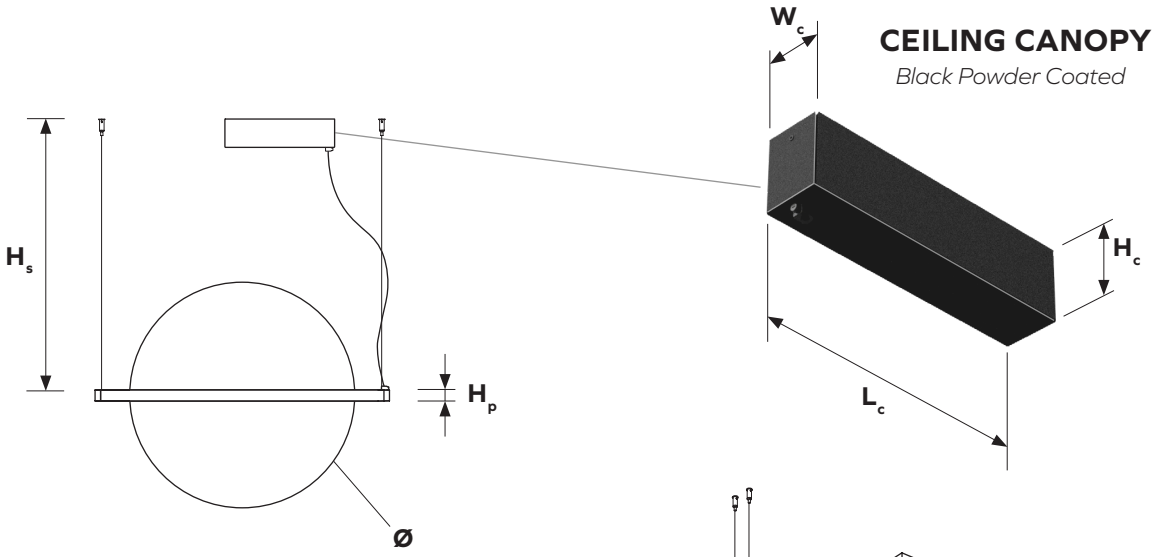
CE

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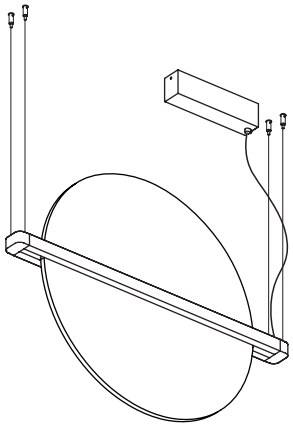
HORIZON

Geometry Information

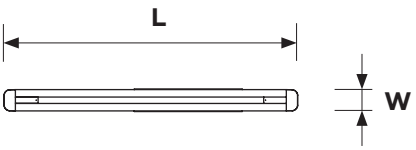
MEDIUM 727.12.10/11/12



Front View



Perspective View



Bottom View

Dimensions

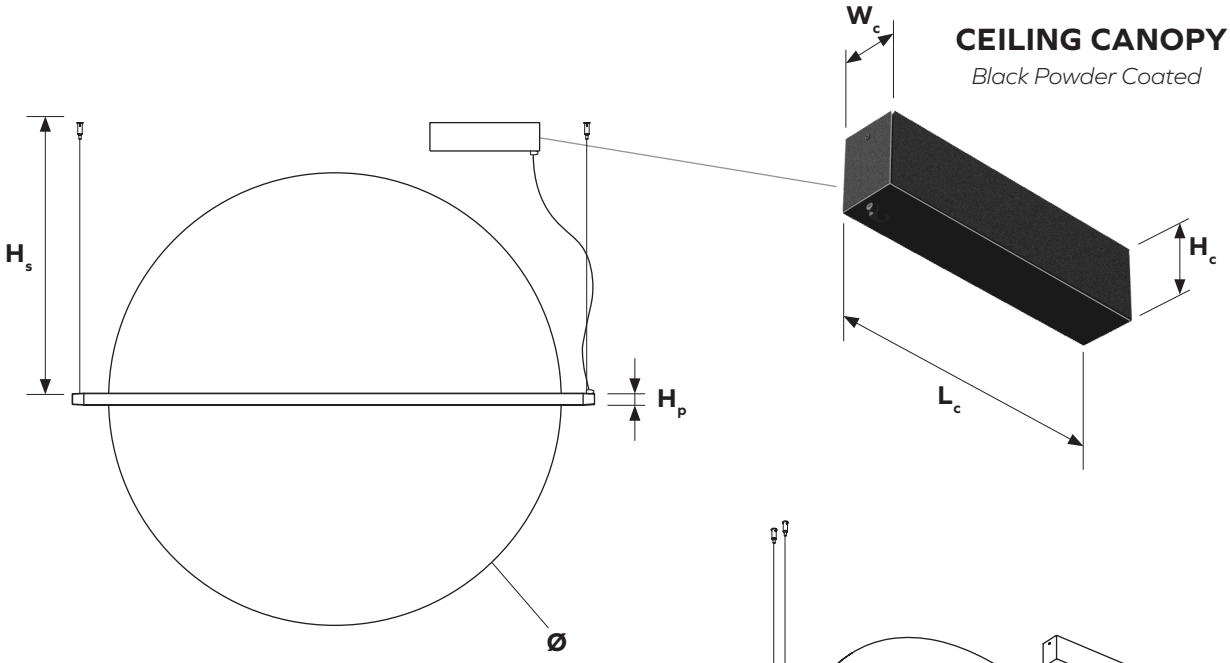
Ø	Diameter	600 mm / 23.62"
H_p	Profile Height	30 mm / 1.18"
W	Width	57 mm / 2.24"
L	Length	780 mm / 30.71"
L_c	Ceiling Canopy Length	290 mm / 11.42"
W_c	Ceiling Canopy Width	60 mm / 2.36"
H_c	Ceiling Canopy Height	75 mm / 2.95"
H_s	Suspension Height	1500 mm / 59.5" - 6000 mm / 236.2" (on request)

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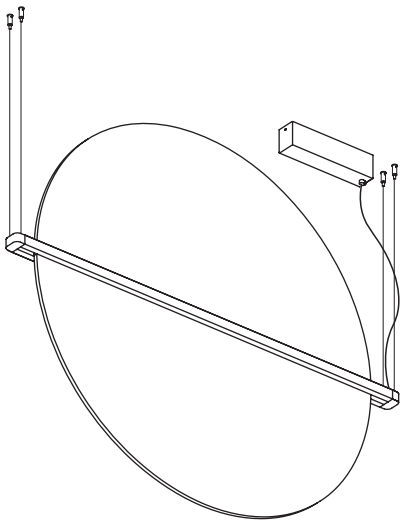
HORIZON

Geometry Information

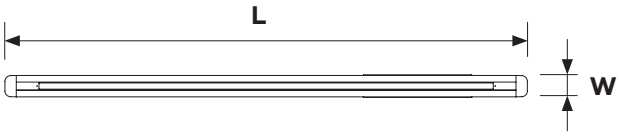
LARGE 727.12.20/21/22



Front View



Perspective View



Bottom View

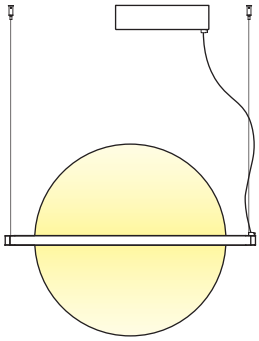
Dimensions

Ø	Diameter	1200 mm / 47.24"
H_p	Profile Height	30 mm / 1.18"
W	Width	57 mm / 2.24"
L	Lenght	1380 mm / 54.33"
L_c	Ceiling Canopy Lenght	290 mm / 11.42"
W_c	Ceiling Canopy Width	60 mm / 2.36"
H_c	Ceiling Canopy Height	75 mm / 2.95"
H_s	Suspension Height	1500 mm / 59.5" - 6000 mm / 236.2" (on request)

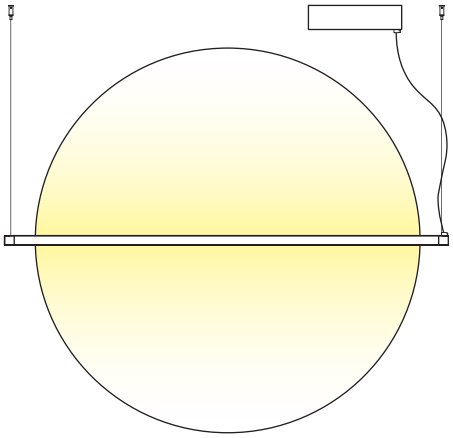
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HORIZON
Patterns

PLAIN

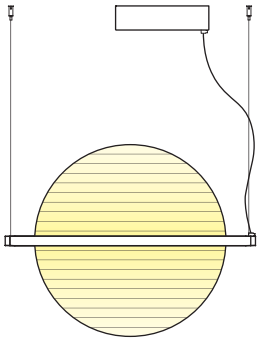


MEDIUM 727.12.10

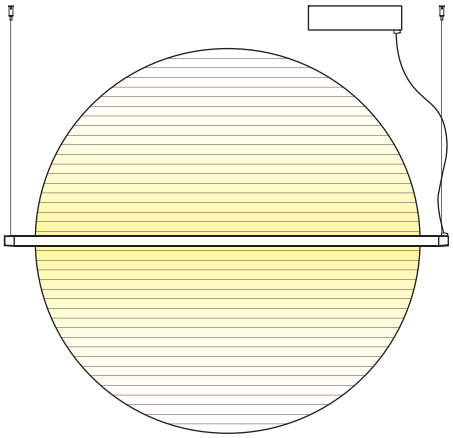


LARGE 727.12.20

HORIZONTAL
45° V-Cut

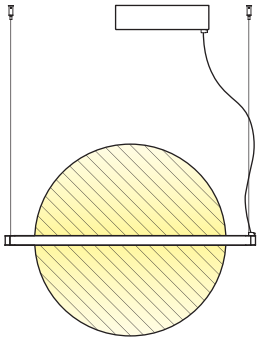


MEDIUM 727.12.11

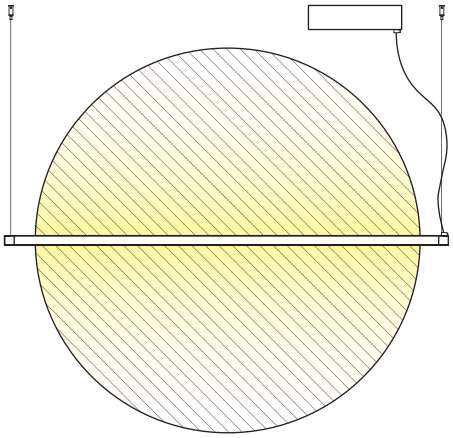


LARGE 727.12.21

OBLIQUE
45° V-Cut



MEDIUM 727.12.12



LARGE 727.12.22

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ARCHISONIC®
Colours

Material brochure available

									
Name	Snow White	Cloud	Smoke	Slate	Charcoal	Raven	Ground	Gull	Milk
Code	**500**	**103**	**442**	**444**	**542**	**550**	**108**	**144**	**404**
NCS	S 0300-N	S 1002-B	S 3005-R80B	S 4500-N	S 7502-B	S 8500-N	S 5005-Y20R	S 2502-Y	S 0502-Y

									
Name	Linen	Dune[S]	Jute	Fallow[S]	Warm Stone	Truffle[S]	Sunshine	Honeycomb	Electric Orange
Code	**107**	**104**	**920**	**238**	**105**	**539**	**846**	**139**	**464**
NCS	S 1505-Y30R	S 2005-Y	S 3010-Y30R	S 5010-Y30R	S 3010-Y50R	S 8502-R	S 1040-Y10R	S 2050-Y20R	S 0580-Y70R

									
Name	Terracotta	Soft Coral	Cinnabar[S]	Shell Pink	Garnet	Poster Red	Hot Pink	Grape	Marine Blue
Code	**239**	**516**	**725**	**102**	**724**	**662**	**140**	**540**	**864**
NCS	S 4040-Y70R	S 2020-Y90R	S 6030-R	S 0510-R30B	S 5040-R10B	S 1080-R	S 2060-R20B	S 5040-R40B	S 4050-R70B

									
Name	Midnight	Royal Blue[S]	Winter Sky	Deep Sea	Nocturne[S]	True Navy	Ice Blue	Pacific Ocean	Lagoon[S]
Code	**810**	**865**	**410**	**918**	**866**	**194**	**304**	**432**	**917**
NCS	S 7020-R70B	S 3560-R80B	S 2020-R90B	S 5020-R90B	S 8010-R90B	S 8005-B	S 0510-B	S 3040-B	S 7020-B30G

									
Name	Succulent	Spearmint	Seafoam[S]	Nordic Pine	Moss	Grove	Pistachio[S]	Lichen	Fern
Code	**712**	**706**	**710**	**311**	**439**	**317**	**315**	**160**	**180**
NCS	S 3020-B30G	S 1010-B90G	S 3010-G30Y	S 5030-G10Y	S 2040-G40Y	S 7020-G30Y	S 5020-Y	S 4005-Y	S 6010-G90Y

These NCS codes are the closest visual match available and may not be exact to blended fibres.
S - Solid Colours, additional charge might apply.

ARCHISONIC®

Colours

Experience our ARCHISONIC® Felt material with a stunning selection of 45 colours across 9 distinct families, thoughtfully curated by *Colour Hive* in London. Effortlessly combine colours to create harmonious palettes that suit your preferences. Discover more in our Materials brochure and order your free sample box today.

Colour fastness

Class 6

ISO 105-B02:A1

Order a free sample box

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ARCHISONIC® Print
Riftcut Natural Collection

Natural Collection colour sets

Riftcut Natural Collection (NC) is a natural wood shade extension to our bestselling Riftcut. Developed in collaboration with German veneer specialists Schotten & Hansen, ARCHISONIC® Print Riftcut NC introduces 3 different colour groups: elegant brights, essential mids and classical darks.

107

ELEGANT BRIGHTS



240 Pebble



241 Sunlit



242 Blush

920

ESSENTIAL MIDS



243 Malt



244 Honey



245 Mocha

105

CLASSICAL DARKS



246 Woodsmoke



247 Bourbon



248 Twilight

Sustainable Ink

CP65 and RoHS3 compliant

UL GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

Order a free sample



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ARCHISONIC® Felt
Material Specification

Product Name	ARCHISONIC® Felt
Content	100% PET (60% certified post-consumer content)
Thickness[1]	12mm (0.47”)
Max. Size	1200x2800mm (47”x110”)
Acoustic[2]	**ASTM:** NRC=0.6 **ISO**: αw=0.65
Density[1]	2400 g/m^2 (0.49 lbs/ sqft)
Colour Fastness	**Class 6** ISO 105-B02:A1
Colours	**45 colours** (see ARCHISONIC® Felt Colour page for more information)
Maintenance	For daily cleaning we recommend alcohol solution (75%), e.g. Pantasept. In case of contamination by dust or fluff, use feather duster or a regular vacuum cleaner. For heavy dirt, treat the material with hydrogen peroxide.
Lead time[3]	21 days
Fire Rating[4]	DIN EN 13501-1: **B-s1, d0** ASTM E84 **Class A**
VOC Emission	**Indoor Air Comfort® GOLD** Compliance with leading international indoor air quality standards and sustainable building schemes across Europe and North America, including LEED, WELL, BREEAM, M1, AgBB, EMICODE, EU Taxonomy and REACH requirements. Additional documentation available upon request.
Thermal Conductivity[5]	12 mm: 0.039 W/m·K
Thermal Resistance[5]	12 mm: 0.30 m^{2}K/W
Certifications	Declare label, Cradle to Cradle, UL Environmental Product Declaration, Member of US Green Building Council, Ecobau 1st Priority, Climate-KIC, SCS Recycled Content
Durability	Contract

1 - all values are nominal 2 - measured with 300mm air cavity 3 - depending on the location and type of product
4 - the following colours carry a B-s2 fire certificate rating: Hot Pink 140 12mm, Lichen 160 12mm, True Navy 194 24mm, Pacific Ocean 432 24mm, Pacific Ocean 432 12mm, Electric Orange 464 24mm, Soft Coral 516 24mm, Raven 550 24mm, Raven 550 12mm, Poster Red 662 12mm, Garnet 724 12mm, Midnight 810 24mm, Marine Blue 864 24mm
5 - values based on third-party testing according to ASTM C518.

Climate-KIC is supported by the EIT, a body of the European Union

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ARCHISONIC® Felt
Material Specification

Product Name	ARCHISONIC® Felt
Content	100% PET (60% certified post-consumer content)
Thickness[1]	12mm (0.47”)
Max. Size	1200x2800mm (47”x110”)
Acoustic[2]	**ASTM:** NRC=0.6 **ISO:** αw=0.65
Density[1]	2400 g/m^2 (0.49 lbs/ sqft)
Colour[6]	**33** printed finishes.
Maintenance[6]	To prevent dust and stains, regularly dust or vacuum with a soft brush. Avoid tools that might scratch the surface. Use mild detergents sparingly for tough stains, blotting instead of rubbing with a microfiber cloth. Test cleaning methods on a hidden area first to check for adverse effects.
Lead Time[3]	21 days
Fire Rating[4]	DIN EN 13501-1: **B-s1, d0** ASTM E84 **Class A**
VOC Emission	**Indoor Air Comfort® GOLD** Compliance with leading international indoor air quality standards and sustainable building schemes across Europe and North America, including LEED, WELL, BREEAM, M1, AgBB, EMICODE, EU Taxonomy and REACH requirements. Additional documentation available upon request.
Thermal Conductivity[5]	12 mm: 0.039 W/m·K
Thermal Resistance[5]	12 mm: 0.30 m^{2}K/W
Certifications	Declare label, Cradle to Cradle, UL Environmental Product Declaration, Member of US Green Building Council, Ecobau 1st Priority, Climate-KIC, SCS Recycled Content
Ink Certifications[6]	UL Greenguard, No NVC, No VOCs, No TPO, Vegan, compliant with California Prop65 (CP65) and European Directive RoHS3
Durability	Contract

1 - all values are nominal 2 - measured with 300mm air cavity 3 - depending on the location and type of product
4 - the following colours carry a B-s2 fire certificate rating: Hot Pink 140 12mm, Lichen 160 12mm, True Navy 194 24mm, Pacific Ocean 432 24mm, Pacific Ocean 432 12mm, Electric Orange 464 24mm, Soft Coral 516 24mm, Raven 550 24mm, Raven 550 12mm, Poster Red 662 12mm, Garnet 724 12mm, Midnight 810 24mm,Marine Blue 864 24mm
5 - values based on third-party testing according to ASTM C518.
6 - valid for Felt Printed products only

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HORIZON

Acoustic Performance

Testing Standards

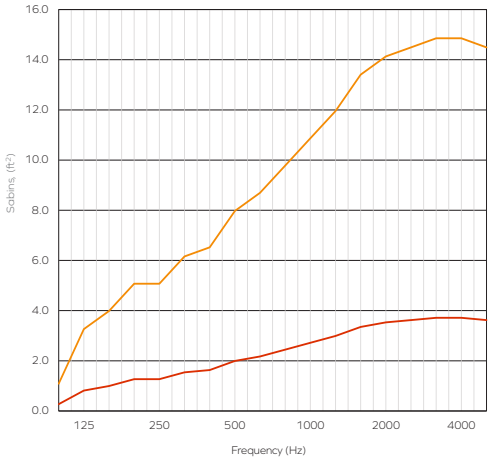
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound reduction of elements based on laboratory measurements
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM E795-16	Standard Practices for Mounting Test Specimens During Sound Absorption Tests

Acoustic Test Results

	αw	SAA	NRC
12mm Hanging Panel 1200x2800mm (Plain)[1]	0.4 (H)	0.39	0.40

1 - Measurement taken with the panel oriented vertically.

The NRC rating is calculated as the average of the absorption coefficients measured at frequencies of 250Hz, 500Hz, 1000Hz and 2000Hz and round to the nearest 0.05. SAA rating is calculated as the average of the sound absorption coefficients of a material for the twelve one-third octave bands from 200Hz through 2500Hz and rounded off to the nearest 0.01.

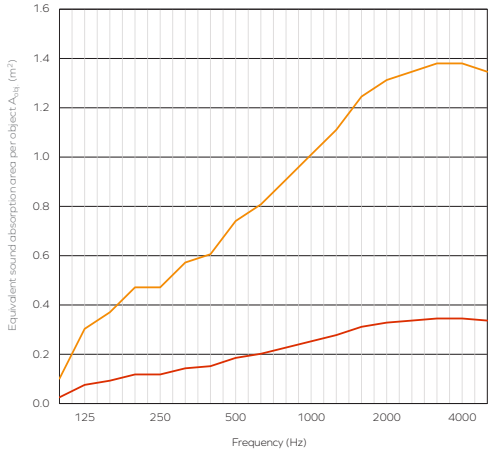


Acoustic Performance - ASTM Sabins/Object , ft^2

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Horizon D600mm	1.1	1.1	2.2	3.2	3.2	3.2
12mm Horizon D1200mm	3.2	5.4	7.5	10.8	14.0	15.1

The graph represents the Sabins/Object (ft^2) in the third octave band center frequencies in accordance with ASTM C423.

- 12mm Horizon D600mm
- 12mm Horizon D1200mm



Acoustic Performance - ISO A_{obj} , m^2

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Horizon D600mm	0.10	0.10	0.20	0.30	0.30	0.30
12mm Horizon D1200mm	0.30	0.50	0.70	1.00	1.30	1.40

The graph represents the equivalent sound absorption area per object (A_{obj}) in the third octave band center frequencies in accordance with ISO 20189. Measurement used Pink Noise as excitation signal in a reverberant room.

- 12mm Horizon D600mm
- 12mm Horizon D1200mm

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