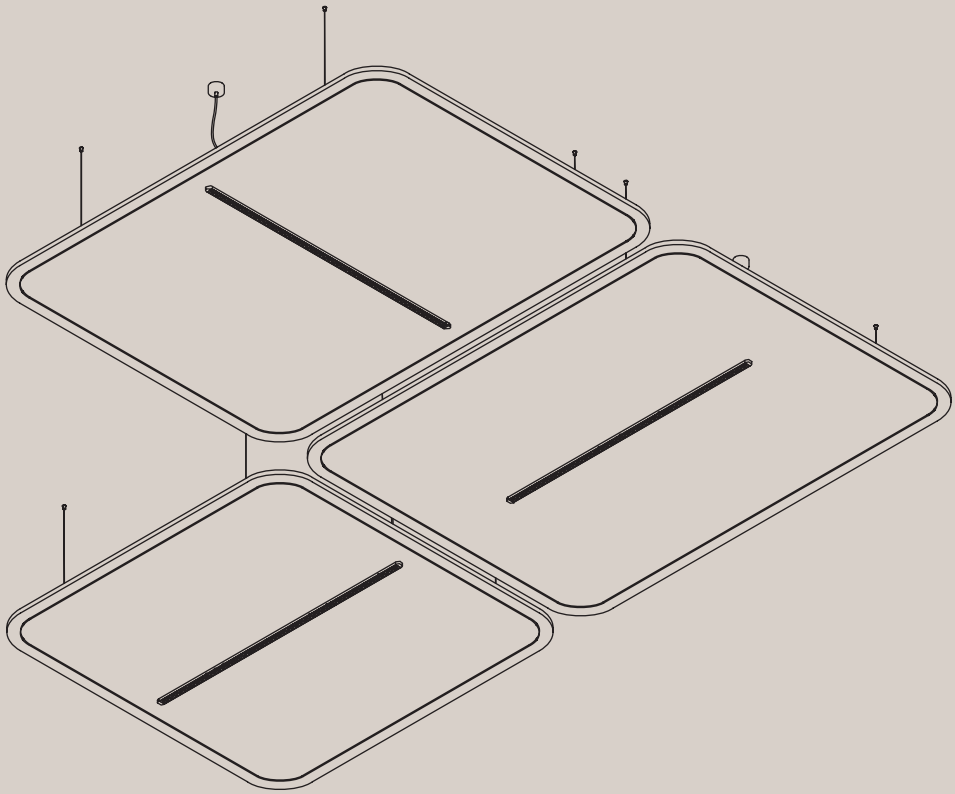
IMPACT ACOUSTIC®



Bysso
Acoustic Lighting

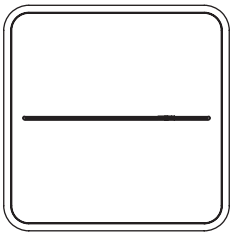
Global Market:
723.24.23.000.00.00
723.24.24.000.00.00
723.24.25.000.00.00

TECHNICAL DATA SHEET

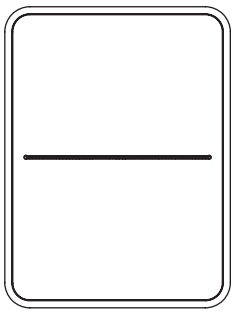
Bysso
Acoustic Lighting



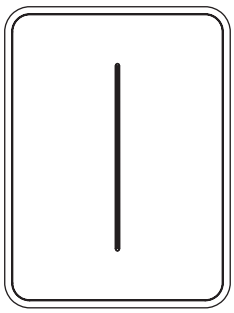
PRODUCT DIMENSIONS



MEDIUM
723.24.23
1800x1800mm/70.9x70.9"



LARGE TRAVERSAL
723.24.24
1800x2400mm/70.9x94.5"



LARGE LONGITUDE
723.24.25
1800x2400mm/70.9x94.5"

ARTICLE NUMBERS

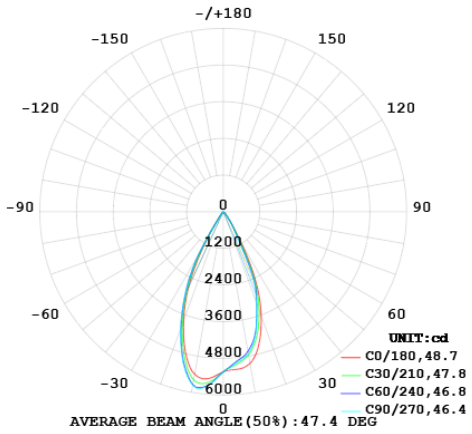
Lighting Product	Product Size	Colour code	Dimming	CCT	Market Voltages
723.24.	**23.** (Medium)	Choose colour as shown on pg. 6	**DALI** (Global Market)	**00** (3000 K/ 3500 K/ 4000 K) CCT Switch	**Standard Voltage** (220 - 240 V)
	24. (Large Traversal)				
	25. (Large Longitude)				

Example: 723.24.23.706.00.00
Bysso Medium [1800x1800mm/70.9x70.9", Spearmint 706 colour, DALI, CCT Switch, 220-240V (Global Market)]

LIGHTING SPECIFICATIONS

	Linear Light for Global Market
Output	Direct
Total Lumen Output (lm)	3450-3500
Wattage (W)	30
Efficacy (lm/W)	115-117
Diffuser	Darklight
Beam Angle	65°
CCT (Switchable)	3000-3500-4000K
CRI	90
Voltage	220-240 V / 50-60 Hz
Dimming	DALI Dimming
Driver Location	On-Board

LIGHT DISTRIBUTION GRAPH

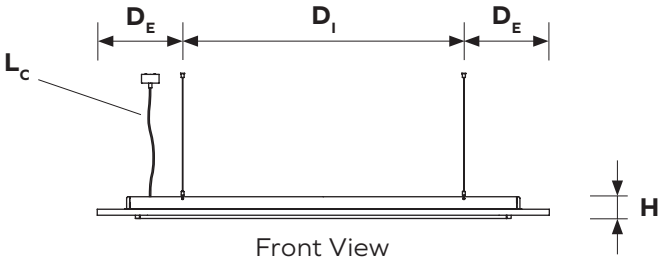


CERTIFICATIONS

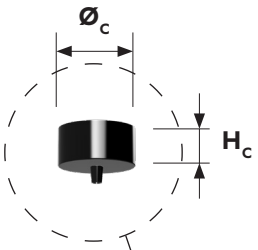
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(USA) usa@impactacoustic.com (+1) 619 378 2100
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Bysso
Acoustic Lighting

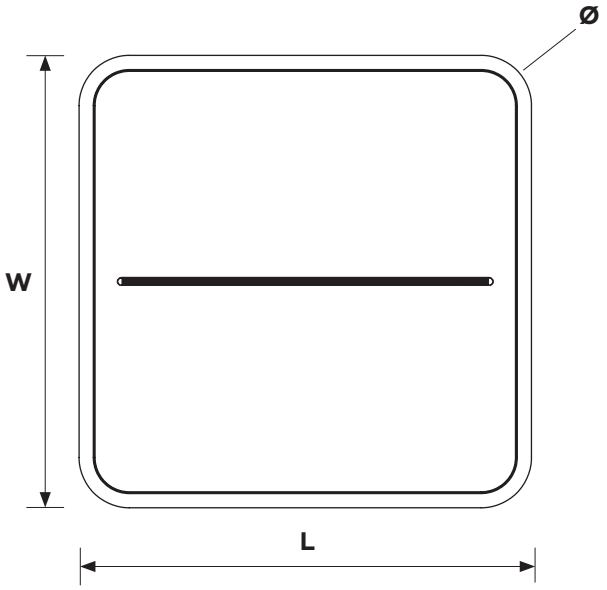
MEDIUM 723.24.23



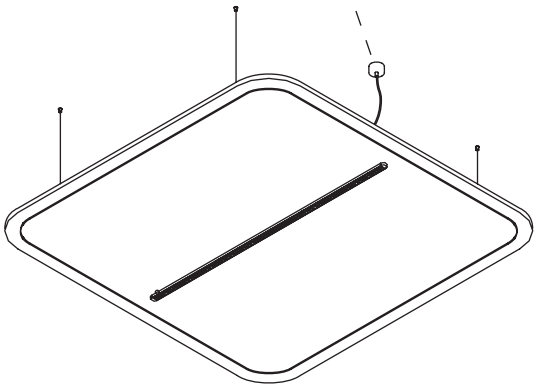
Front View



CEILING CANOPY
Black Powder Coated



Bottom View



Perspective View

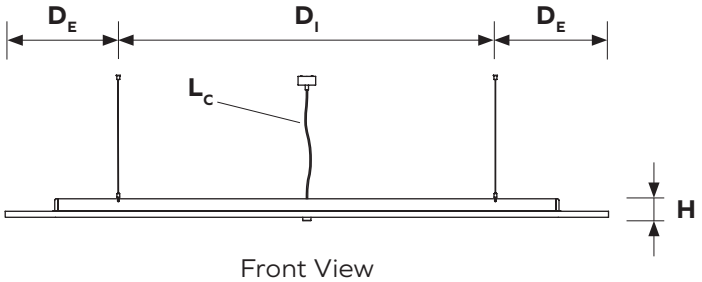
Dimensions

Ø	Diameter	200 mm / 7.9”
H	Height	87 mm / 3.4”
W	Width	1800 mm / 70.9”
L	Length	1800 mm / 70.9”
L_C	Cable Length	1500 mm / 59.1” (other lengths on request)
$Ø_C$	Ceiling Canopy Diameter	70 mm / 2.8”
H_C	Ceiling Canopy Height	35 mm / 1.4”
D_E	External Distance	340 mm / 13.4”
D_I	Internal Distance	1120 mm / 44.1”

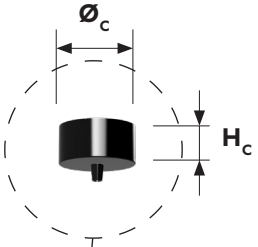
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(Philippines) philippines@impactacoustic.com (+63) 285 80 02 50

Bysso
Acoustic Lighting

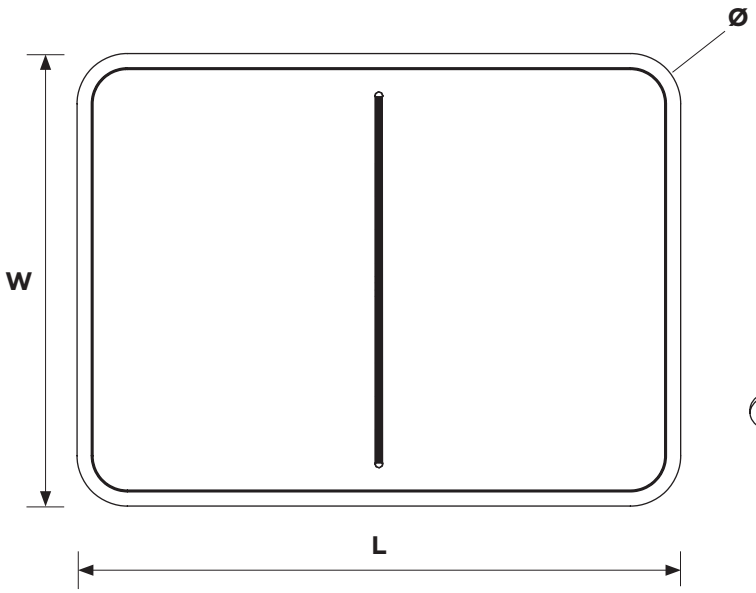
LARGE TRAVERSAL 723.24.24



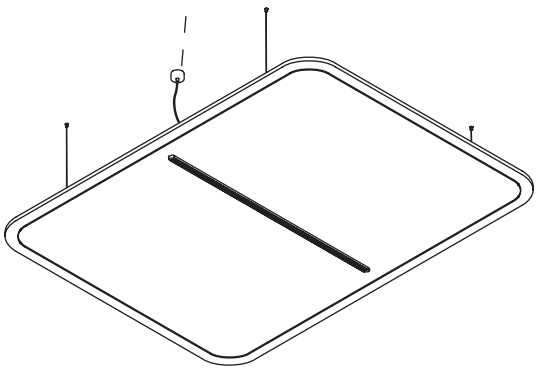
Front View



CEILING CANOPY
Black Powder Coated



Bottom View



Perspective View

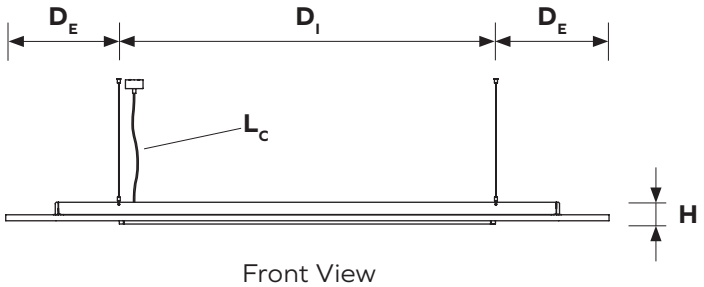
Dimensions

Ø	Diameter	200 mm / 7.9"
H	Height	87 mm / 3.4"
W	Width	1800 mm / 70.9"
L	Length	2400 mm / 94.5"
L_C	Cable Length	1500 mm / 59.1" (other lengths on request)
$Ø_C$	Ceiling Canopy Diameter	70 mm / 2.8"
H_C	Ceiling Canopy Height	35 mm / 1.4"
D_E	External Distance	450 mm / 17.7"
D_I	Internal Distance	1500 mm / 59.1"

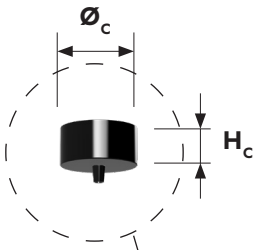
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Bysso
Acoustic Lighting

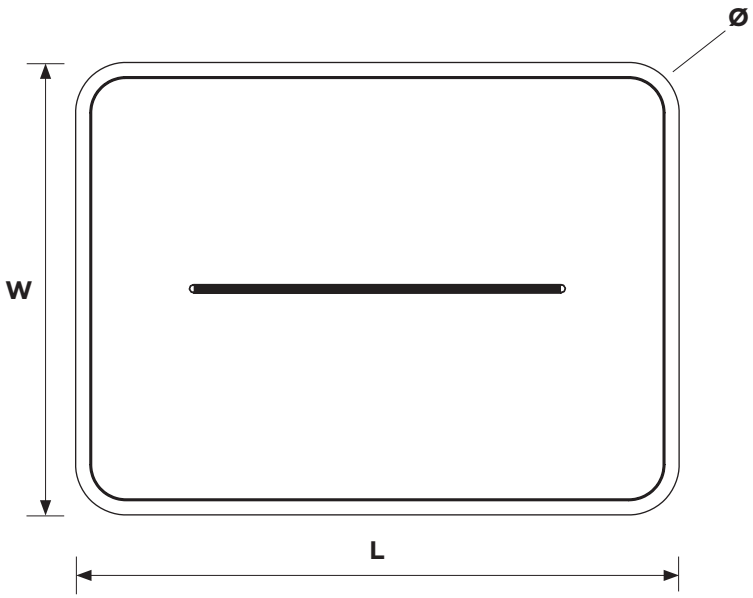
LARGE LONGITUDE 723.24.25



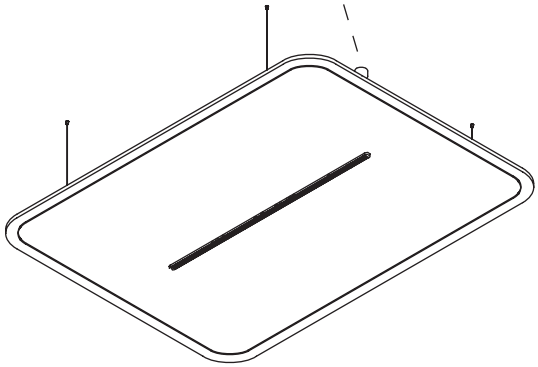
Front View



CEILING CANOPY
Black Powder Coated



Bottom View



Perspective View

Dimensions

Ø	Diameter	200 mm / 7.9"
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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-R90 B	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



ARCHISONIC® Felt
Material Specification

Product Name	ARCHISONIC® Felt
Content	100% PET (60% certified post-consumer content)
Thickness[1]	24mm (0.94")
Max. Size	1800x2400mm (70"x94")
Acoustic[2]	**ASTM**: NRC=0.9 **ISO**: αw=0.95
Density[1]	4000 g/m² (0.82 lbs/sqft)
Colour Fastness	**Class 6** ISO 105-B02:A1
Colours and finishes	**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]	24 mm: 0.037 W/m·K
Thermal Resistance[5]	24 mm: 0.65 m²K/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

Bysso
Acoustic Performance

University of Stuttgart
Germany

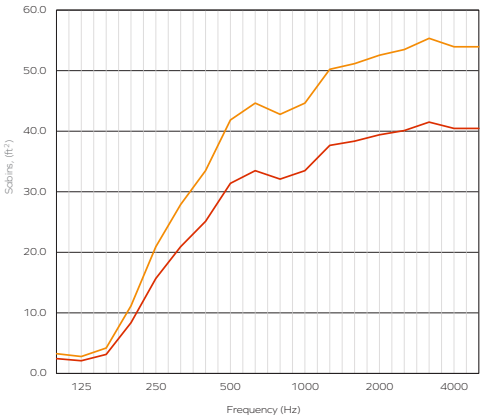
Testing Standards

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
24mm Ceiling Panel 1800x2400mm[1]	0.75 (MH)	0.85	0.85
24mm Ceiling Panel 1800x2400mm[2]	0.55 (MH)	0.72	0.70

1 - Measured with 200mm air gap and open edges
2 - Measured with 200mm air gap, open edges and 18% perforation

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.

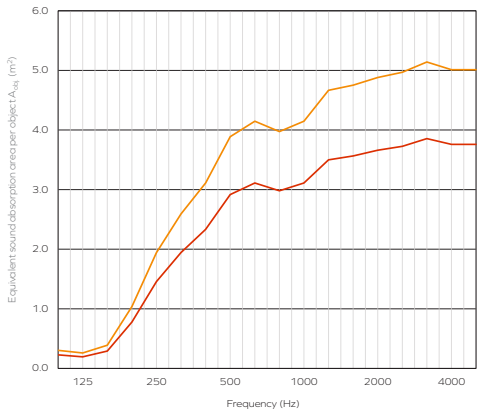


Acoustic Performance - ASTM Sabins , ft²

Frequency (Hz)	125	250	500	1000	2000	4000
24mm Bysso (Small)	2.15	15.07	30.14	34.44	39.83	40.90
24mm Bysso (Large)	3.23	20.45	39.83	46.28	52.74	54.90

The graph represents the Sabins (ft²) in the third octave band center frequencies in accordance with ASTM C423.

- 24mm Bysso (Small)
- 24mm Bysso (Large)



Acoustic Performance - ISO A_{obj} , m²

Frequency (Hz)	125	250	500	1000	2000	4000
24mm Bysso (Small)	0.2	1.4	2.8	3.2	3.7	3.8
24mm Bysso (Large)	0.3	1.9	3.7	4.3	4.9	5.1

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.

- 24mm Bysso (Small)
- 24mm Bysso (Large)

Note: Sound absorption performance for the 400mm air gap ceiling panel configuration is available upon request.

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Bysso
Acoustic Lighting

Online Resources

A variety of resources are available online for all of our products. Please visit the product's page for more information.

CAD files
IES/LDT files
Datasheets and Installation Guide
Colour families
Instruction videos
Associated products specifications

Ordering Process

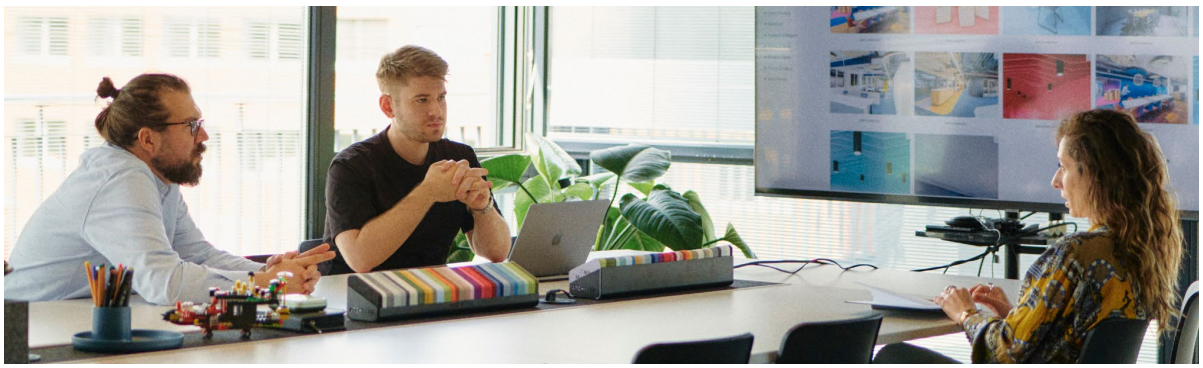
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Quote[1] 48 h
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Production[1] 2 - 3 weeks
Dispatch
Transit location based
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1 - Quote and Production times may vary.

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