IMPACT ACOUSTIC®
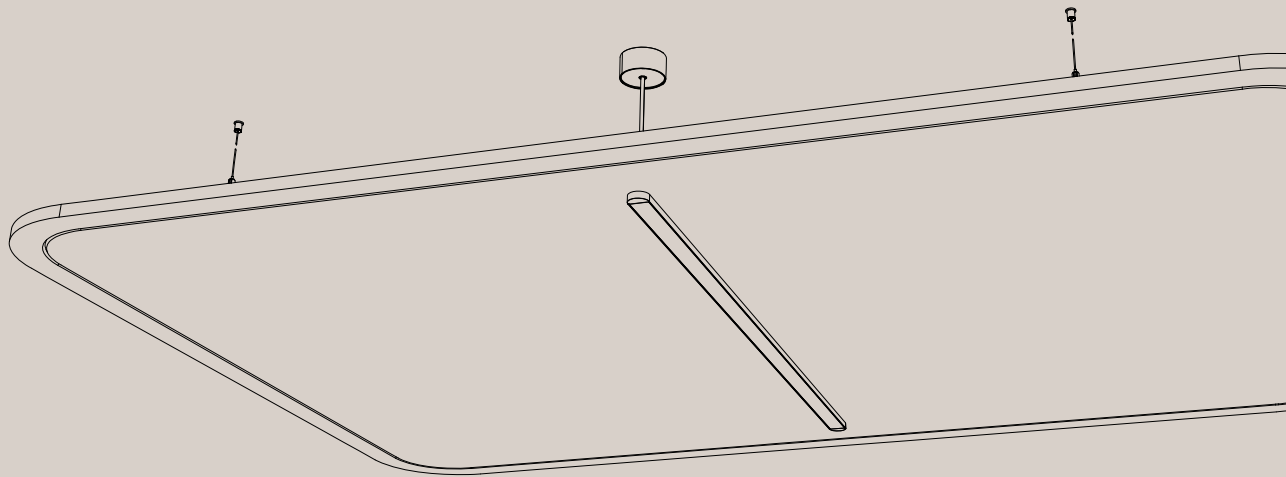

Bysso
Acoustic Lighting

723.24.20.000.00
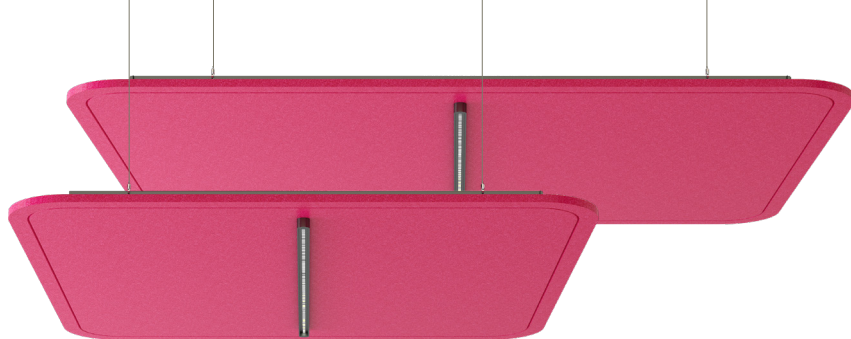723.24.21.000.00
723.24.22.000.00
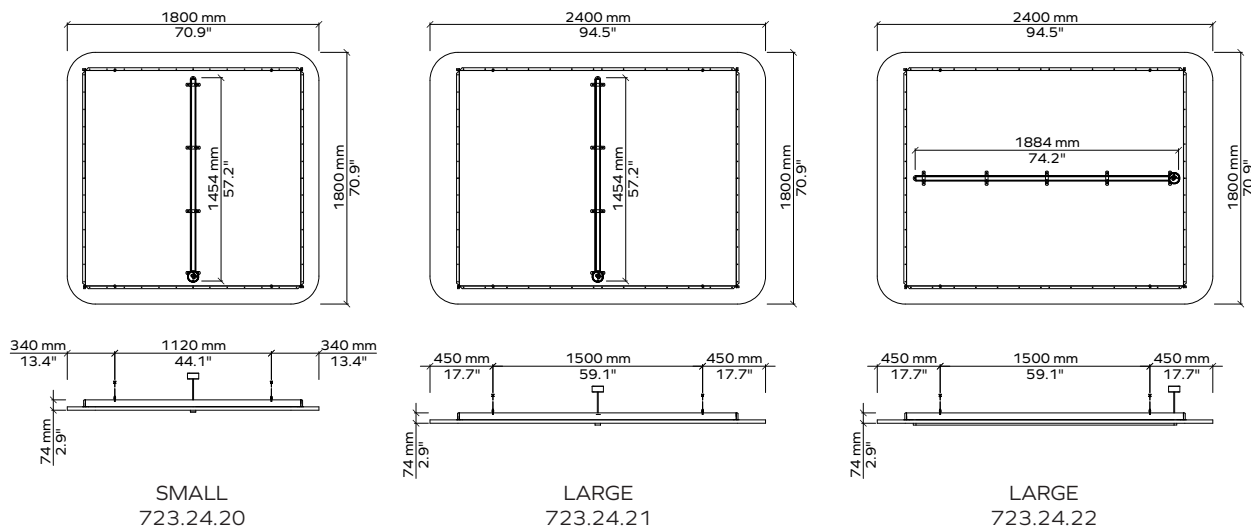
Bysso
Acoustic Lighting

PRODUCT DIMENSIONS

1800 mm / 70.9" × 1800 mm / 70.9" — 1454 mm / 57.2" / 340 mm 13.4" / 1120 mm 44.1" / 340 mm 13.4" / 74 mm 2.9"	2400 mm / 94.5" × 1800 mm / 70.9" — 1454 mm / 57.2" / 450 mm 17.7" / 1500 mm 59.1" / 450 mm 17.7" / 74 mm 2.9"	2400 mm / 94.5" × 1800 mm / 70.9" — 1884 mm / 74.2" / 450 mm 17.7" / 1500 mm 59.1" / 450 mm 17.7" / 74 mm 2.9"
SMALL 723.24.20	LARGE 723.24.21	LARGE 723.24.22

ARTICLE NUMBERS

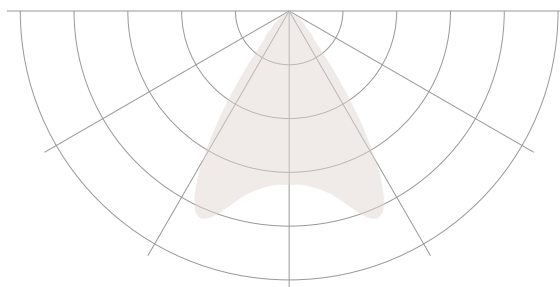| Lighting Product	Product Size	Color code	CCT	North American Market
723.24.	21 (Small)	Choose color as shown on pg. 3	27 (2700K)	Add an A at the end of the CCT code to indicate this product is for North America
	22 (Large)		30 (3000K)	
	23 (Large)		35 (3500K)	
			40 (4000K)	

Example: 723.24.20.706.35A

Bysso Small [(1800x1800mm/70.9x70.9", Spearmint 706 color, 3500K CCT, 110-277V (North America)]

LIGHTING SPECIFICATIONS

	Linear Light 1454	Linear Light 1884
Output	Direct	
Total Lumen Output (lm)	3061	3980
Wattage	31	41
Efficacy (lm/W)	99	97
Diffuser	Glare-free reflector	
Beam Angle	108	
CCT	2700-3000-3500-4000K	
CRI	90+	
MacAdam	3	
Voltage	220 - 240 V / 120V	
Dimming	0.1% DSI/DALI Dimming	
Driver Location	On-Board	

LIGHT DISTRIBUTION GRAPH

CERTIFICATIONS

CE UL

IMPACT ACOUSTIC ®
Acoustic Lighting   rev.01 - 15.01.24

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

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ARCHISONIC®
Colors

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

Name	Nordic Pine	Grove	Moss	Spearmint	Ice Blue	Succulent	Deap Sea	Marine Blue
Color Code	**311**	**317**	**439**	**706**	**304**	**712**	**918**	**864**
NCS Code	S 5030-G10Y	S 7020-G30Y	S 2040-G40Y	S 1010-B90G	S 0510-B	S 3020-B30G	S 5020-R90B	S 4050-R70B

Name	Linen	Shell Pink	Jute	Warm Stone	Terracotta	Soft Coral	Honeycomb	Sunshine
Color Code	**107**	**102**	**920**	**105**	**239**	**516**	**139**	**846**
NCS Code	S 1505-Y30R	S 0510-R30B	S 3010-Y30R	S 3010-Y50R	S 4040-Y70R	S 2020-Y90R	S 2050-Y20R	S 1040-Y10R

Name	Garnet	Hot Pink	Poster Red	Electric Orange	Winter Sky	Pacific Ocean	Midnight	Grape
Color Code	**724**	**140**	**662**	**464**	**311**	**432**	**810**	**540**
NCS Code	S 5040-R10B	S 2060-R20B	S 1080-R	S 0580-Y70R	S 5030-G10Y	S 3040-B	S 7020-R70B	S 5040-R40B

These NCS codes are the closest visual match available and may not be exact to blended fibres.

ARCHISONIC®

Colors

Experience our ARCHISONIC® Felt material with a stunning selection of 32 colors across 8 distinct families, thoughtfully curated by *Colour Hive* in London. Effortlessly combine colors harmoniously to suit your preferences. Discover more in our Materials brochure and order your free sample box today.
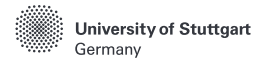
Color fastness
Class 6
ISO 105-B02:A1

Order a free sample box
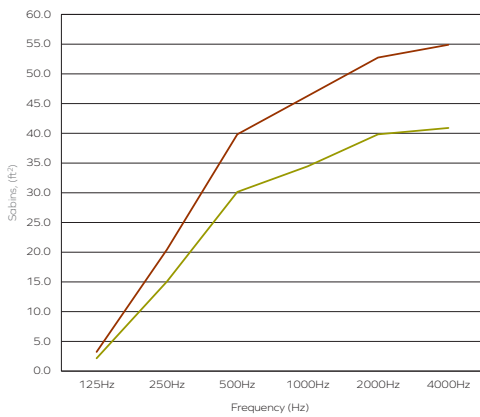
Bysso
Acoustic Performance

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
12mm Ceiling Panel 1200x2800mm[1]	0.65 (H)	0.74	0.75
24mm Ceiling Panel 1800x2400mm[2]	0.55 (MH)	0.72	0.70

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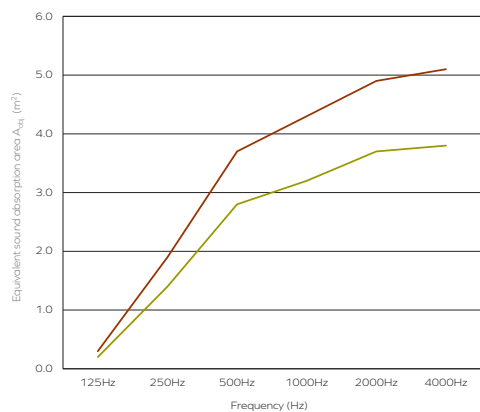2 - Measured with 200mm airgap, open edges and 18% perforation

Acoustic Performance - ASTM Sabins , ft^2

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 (ft^2) in the third octave band center frequencies. Measurement used Pink Noise as excitation signal in a reverberant room.

● 24mm Bysso (Small)
● 24mm Bysso (Large)

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

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 per object (A_{obj}) in the third octave band center frequencies. Measurement used Pink Noise as excitation signal in a reverberant room.

● 24mm Bysso (Small)
● 24mm Bysso (Large)

ARCHISONIC® Felt
Material Specification

Product Name	Archisonic® Felt	
Content	100% PET (60% certified post-consumer content)	
Thickness[1]	12mm (0.47")	24mm (0.94")
Max. Size	1200x2800mm (47"x110")	1800x2400mm (70"x94")
Acoustic[2]	**ASTM:** NRC=0.6 **ISO**: αw=0.65	**ASTM**: NRC=0.9 **ISO**: αw=0.95
Density[1]	2400 g/m^2 (0.49 lbs/ sqft)	4000 g/m^2 (0.82 lbs/sqft)
Color Fastness	**Class 6** ISO 105-B02:A1	
Color	**32 colors** (see Archisonic® Felt Color 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	DIN EN 13501-1: **B-s1, d0** ASTM E84 **Class A**	
VOC Emission	28 Days French Regulation **A+** ASTM E84 **Pass** Breeam® (International, UK, NL, SE, NOR) **Examplary** CDPH (CDPH/EHLB/Standard Method V 1.2) **Pass**	
Certifications	Declare label, Cradle to Cradle, UL Environmental Product Declaration, Member of US Green Building Council, Ecobau 1st Priority, Climmate-KIC, VOC emissions in LEED EQ credit (low-emitting products), 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

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

eit Climate-KIC   Declare.   DANAK TEST Reg.nr. 522

CERTIFIED cradle to cradle BRONZE   UL CERTIFIED ENVIRONMENTAL PRODUCT DECLARATION UL.COM/EPD   U.S. GREEN BUILDING COUNCIL MEMBER   LEED LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN   eco 1 ecobau Cert.   CERTIFIED RECYCLED CONTENT SCS GLOBAL SERVICES MINIMUM 60% RECYCLED CONTENT POST-CONSUMER   CODE FOR A SUSTAINABLE BUILT ENVIRONMENT BREEAM   ilac-MRA

IMPACT ACOUSTIC®
Acoustic Lighting   rev.01 - 15.01.24

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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

Spec sheets and Installation Guide

Color families

Instruction videos

Associated products specs.

Ordering Process

Our experienced team of Project Consultants will guide and support you throughout the order process. We fulfill the majority of our orders in as little as 21 days[1] from your first point of contact, allowing you to focus on what truly matters to you.

Contact our consultant

Quote[1]
48 h

Order Confirmation

Production[1]
2 - 3 weeks

Dispach

Transit
location based

Delivery

Contact Us

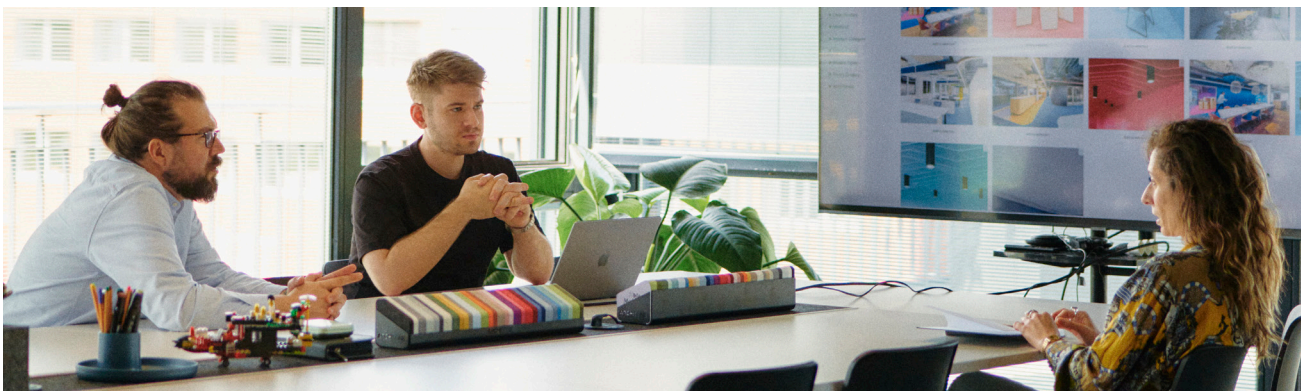Ready to make an impact? We are just an email or call away to discuss your project and answer any question.

+41 41 566 55 55

connect@impactacoustic.com

Online form

1 - Quote and Production times may vary.

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