IMPACT ACOUSTIC®

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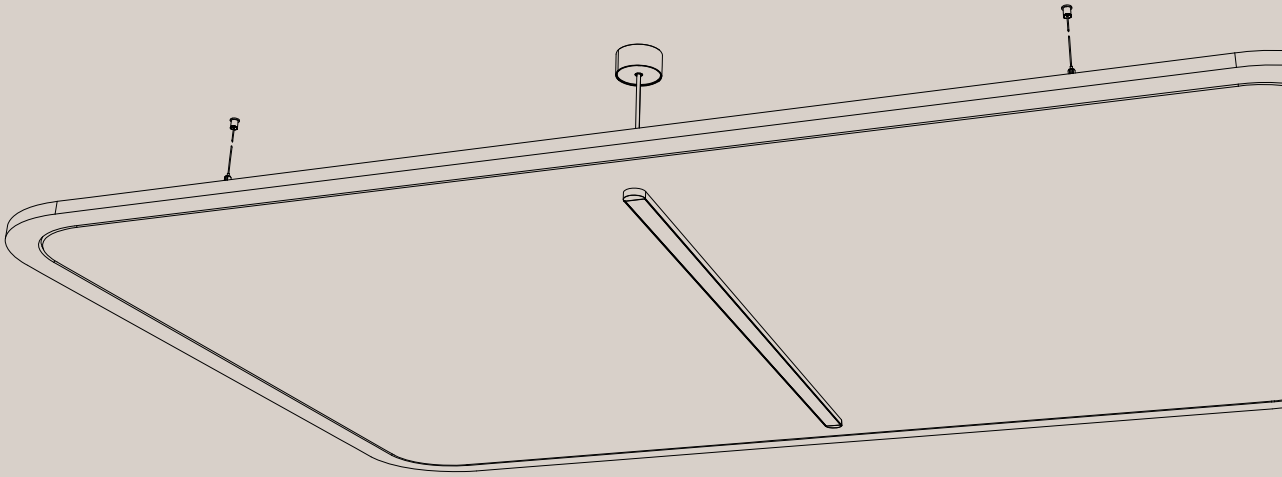
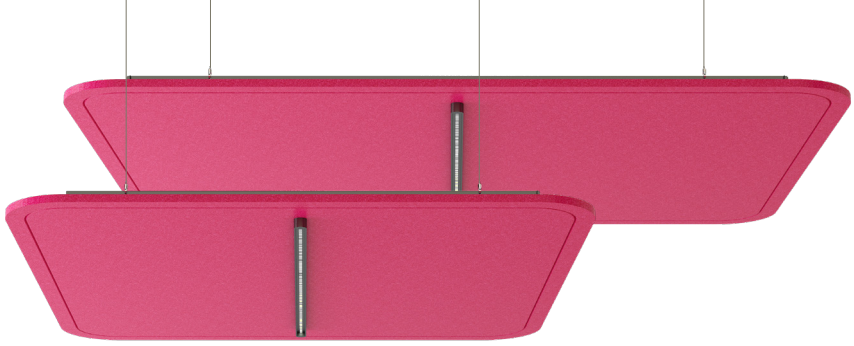


Bysso
Acoustic Lighting

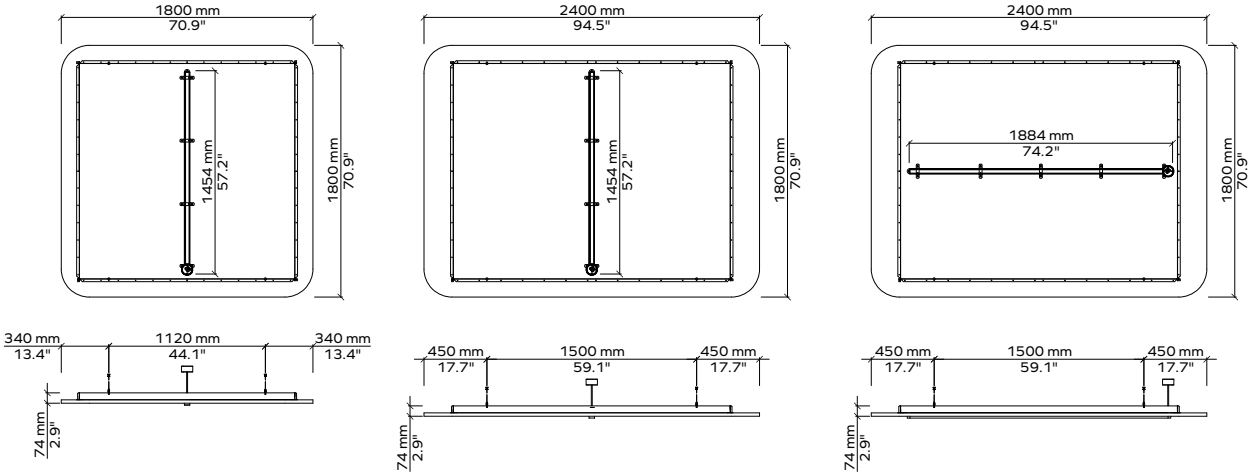
723.24.20.000.00
723.24.21.000.00
723.24.22.000.00

TECHNICAL DATA SHEET

Bysso
Acoustic Lighting



PRODUCT DIMENSIONS



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)	

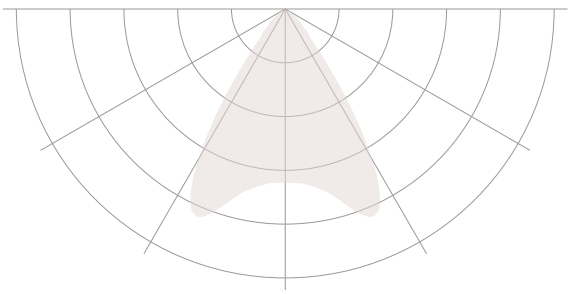
Example: 723.24.20.706.35A

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 Only	
Total Lumen Output (lm)	3061	3980
Wattage	31	41
Efficacy (lm/W)	98.74	97.07
Diffuser	Microprism	
Beam Angle	108	
CCT	2700-3000-3500-4000K	
CRI	90+	
MacAdam	3	
Dimming	0-10V 0.1% DSI/DALI	
Driver Location	On-Board	

LIGHT DISTRIBUTION GRAPH



CERTIFICATIONS

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habitatmatter.com
spec@habitatmatter.com

ARCHISONIC®
Colours

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samples@habitatmatter.com

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	S2502-Y	S 0502-Y

Name	Linen	Dune	Jute	Fallow	Warm Stone	Truffle	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	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	Winter Sky	Deep Sea	Nocturne	True Navy	Ice Blue	Pacific Ocean	Lagoon
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	S8005-B	S 0510-B	S 3040-B	S 7020-B30G

Name	Succulent	Spearmint	Seafoam	Nordic Pine	Moss	Grove	Pistachio	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	**S4005-Y**	S6010-G90Y

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

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 harmoniously to 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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Bysso
Acoustic Lighting

ACOUSTIC PERFORMANCE

University of Stuttgart
Germany

ISO Standards

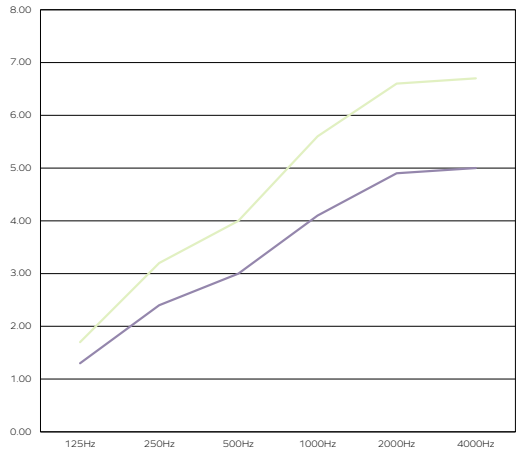
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound reduction of elements based on laboratory measurements

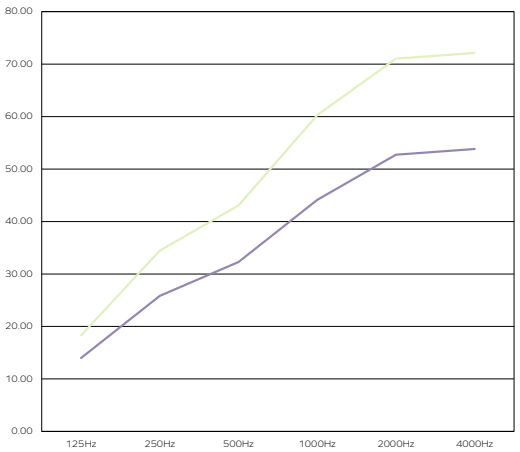
Equivalent ASTM standards

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

ISO	**Equivalent Absorption Surface Area for the object (Aeq) (m^2)**	
Frequency (Hz)	**Bysso (Small)**	**Bysso (Large)**
125	1.30	1.70
250	2.40	3.20
500	3.00	4.00
1000	4.10	5.60
2000	4.90	6.60
4000	5.00	6.70

ASTM	**Sabins (ft^2)**	
Frequency (Hz)	**Bysso (Small)**	**Bysso (Large)**
125	13.99	18.30
250	25.83	34.44
500	32.29	43.06
1000	44.13	60.28
2000	52.74	71.04
4000	53.82	72.12





Bysso Small - 1454 mm
Bysso Large - 1884 mm

"Just like sound, lighting appeals to the senses and is a driver for a good work environment and contributes to your health and well-being and should be synced with your circadian rhythm. However, if every evening you're the last person to switch off the lights in the office, you might have a tag on your back saying "overachiever".

– Daniel Verlooven

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ARCHISONIC®
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/m² (0.49 lbs/ sqft)	4000 g/m² (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	**A+** 28 Days French Regulation	ASTM E84 **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), Breeam, 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

MINIMUM 60% RECYCLED CONTENT POST-CONSUMER