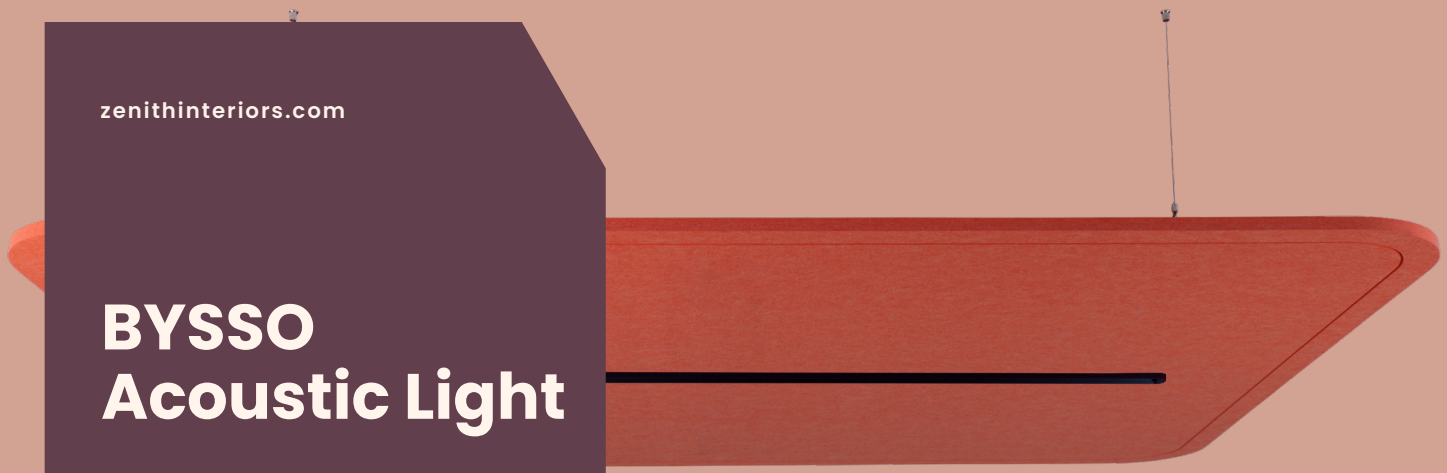
zenithinteriors.com

BYSSO Acoustic Light

Zenith



Features:
Amazing, how the light can be focused and directed in a targeted manner using the reflectors, thus guaranteeing the best illumination of workplaces. The processing of the recessed light sources ensures that the light in the acoustic panel almost disappears. The rounded corners of the floating sail create a secure feeling of space.

Design: IMPACT ACOUSTIC

Environmental:
- Cradle to Cradle Certified™
- Product qualifies for LEED v4 specifications on VOC emissions in LEED EQ credit
- VOC Emission CDPH 01350 PASS, ISO 16000 (CDPH/EHLB/STANDARD METHOD V1.2.), EN 16516

Warranty: 12 year product & 2 year lighting

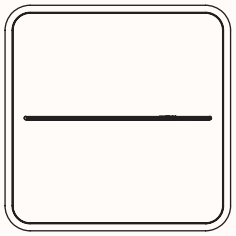
Finishes:
100% PET (min. 60% post-consumer)
ARCHISONIC® is a high-performance sustainable acoustic absorber made from up-cycled plastic bottles.
ARCHISONIC® is manufactured at the highest quality standards, yet slight colour and surface deviations caused by the high degree of recycled fiber are an inevitable part of the product characteristics and do not claim warranty services.
Material varies in colour when shown in monitor or in print.

Finishes:

ARCHISONIC:

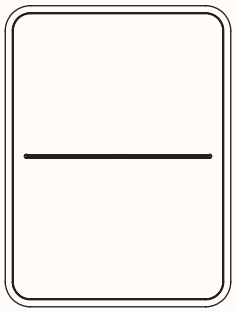
Snow White 500	Cloud 103	Smoke 442	Slate 444	Charcoal 542	Raven 550
Ground 108	Gull 144	Milk 404	Linen 107	Dune 104	Jute 920
Fallow 238	Warm Stone 105	Truffle 539	Sunshine 846	Honeycomb 139	Electric Orange 464
Terracotta 239	Soft Coral 516	Cinnabar 725	Shell Pink 102	Garnet 724	Poster Red 662
Hot Pink 140	Grape 540	Marine Blue 864	Midnight 810	Royal Blue 865	Winter Sky 410
Deep Sea 918	Nocturne 866	True Navy 194	Ice Blue 304	Pacific Ocean 432	Lagoon 917
Succulent 712	Spearmint 706	Seafoam 710	Nordic Pine 311	Moss 439	Grove 317
Pistachio 315	Lichen 160	Fern 180			

Dimensions



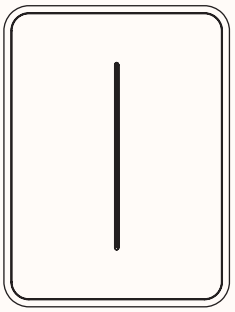
Medium 723.24.23

OW 1800mm
OD 1800mm
OH 90mm



Large Traversal 723.24.24

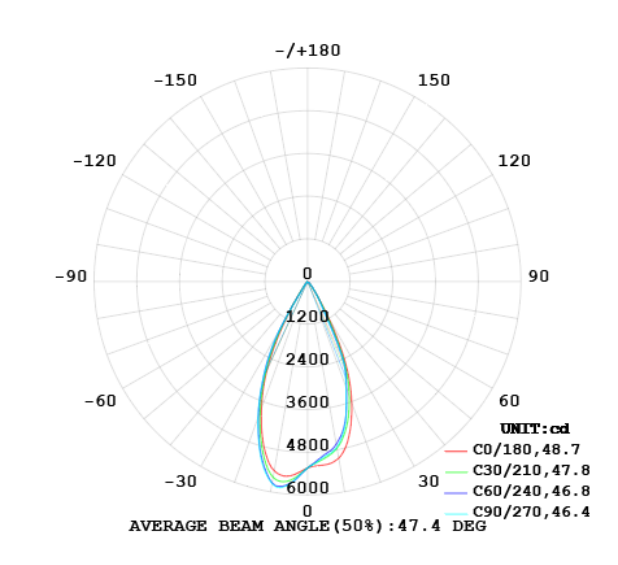
OW 1800mm
OD 2400mm
OH 90mm



Large Longitude 723.24.25

OW 1800mm
OD 2400mm
OH 90mm

Lighting Distribution Graph:



Lighting Specification:

	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 Degree
CCT (Switchable):	3000-35000-4000K
CRI:	90
Voltage:	220-240V / 50-60Hz
Dimming:	DALI Dimming
Driver Location:	On-Board

Acoustic Performance

University of Stuttgart
Germany

Testing Standards

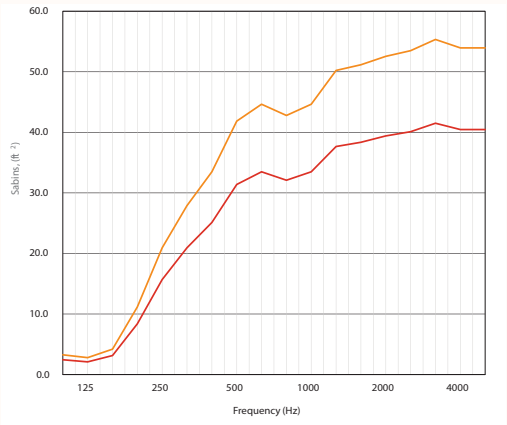
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound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

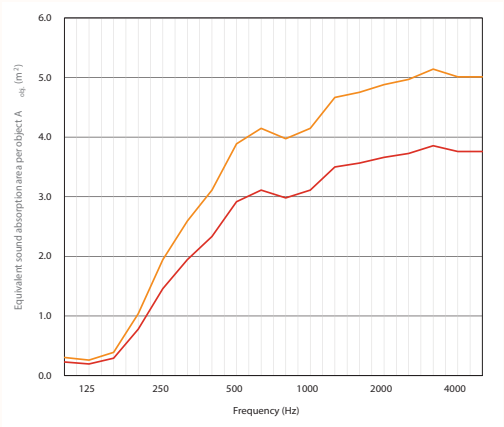


Acoustic Performance - ASTM Sabins , ft ²

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 in accordance with ASTM C423.

- 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 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)