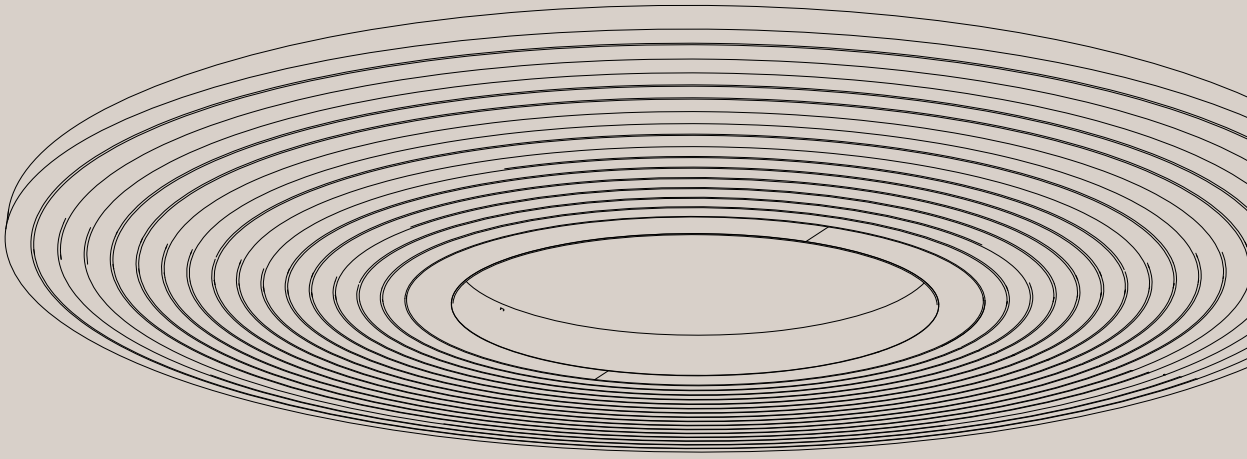
IMPACT ACOUSTIC®

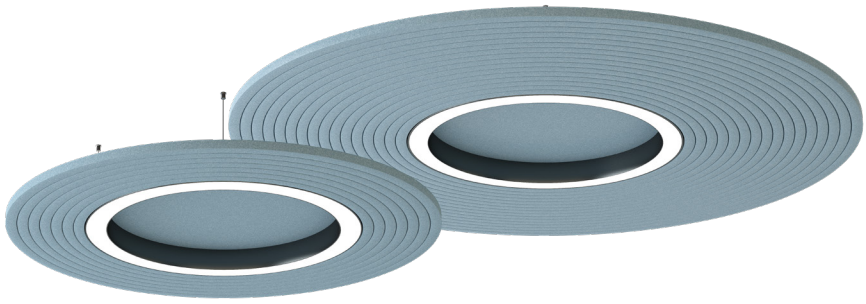


Orbis
Acoustic Lighting

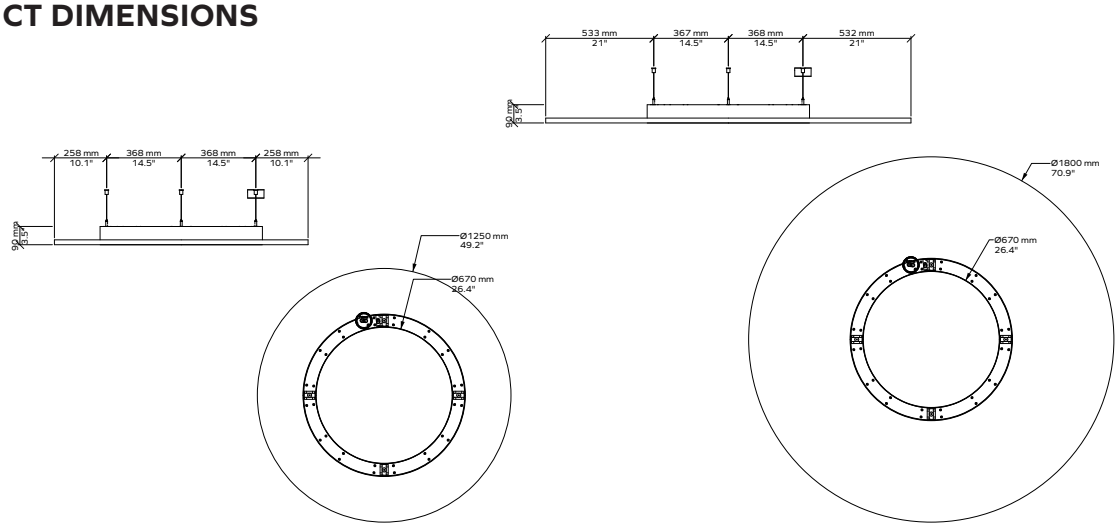
724.24.10.000.00
724.24.12.000.00
724.24.15.000.00
724.24.16.000.00

TECHNICAL DATA SHEET

Orbis
Acoustic Lighting



PRODUCT DIMENSIONS



MEDIUM
724.24.10 / 724.24. 12

LARGE
724.24.15 / 724.24. 16

ARTICLE NUMBERS

Lighting Product	Product Size	Colour code	CCT	North American Market
724.24.	10/12 (Medium)	Choose colour 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
			30 (3000K)	
	15/16 (Large)		35 (3500K)	
			40 (4000K)	

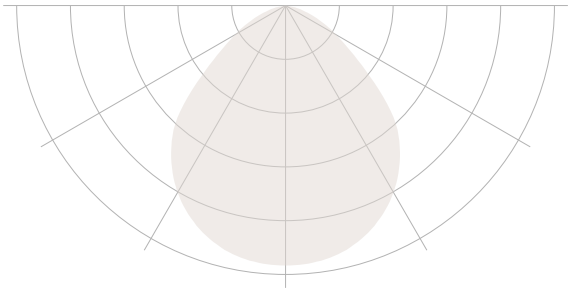
Example: 724.24.15/16.706.35A

Orbis Medium [(1200x1200mm /49.21x49.21", Spearmint 706 colour, 3500K CCT, 110-277V (North America)]

LIGHTING SPECIFICATIONS

	For both	
Output	Direct	Direct/Indirect
Total Lumen Output (lm)	6393	9585
Wattage	50	75
Efficacy (lm/W)	113	
Diffuser	Opal/Microprism	
Beam Angle	110	
CCT	2700-3000-3500-4000K	
CRI	90+	
MacAdam	3	
Voltage	220 - 240 V / 120V	
Dimming	0-10V / DALI	
Driver Location	On-Board	

LIGHT DISTRIBUTION GRAPH



CERTIFICATIONS

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



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

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Orbis

Acoustic Performance

University of Stuttgart
Germany

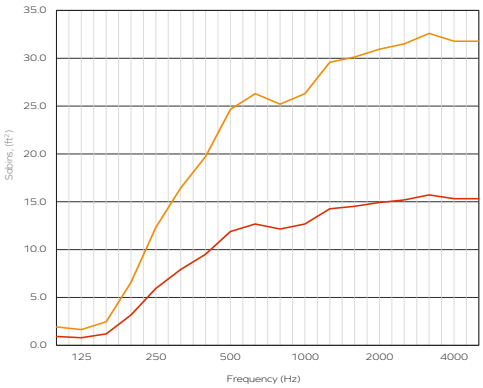
Testing Standards

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.

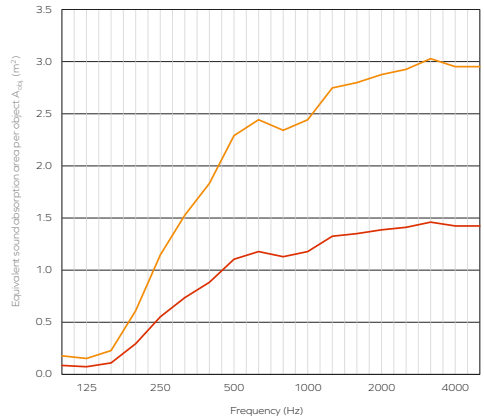


Acoustic Performance - ASTM Sabins , ft²

Frequency (Hz)	125	250	500	1000	2000	4000
24mm Orbis (Medium)	1.08	5.38	11.84	12.92	15.07	15.07
24mm Orbis (Large)	2.15	11.84	23.68	26.91	31.22	32.29

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

- 24mm Orbis (Medium)
- 24mm Orbis (Large)



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

Frequency (Hz)	125	250	500	1000	2000	4000
24mm Orbis (Medium)	0.10	0.50	1.10	1.20	1.40	1.40
24mm Orbis (Large)	0.20	1.10	2.20	2.50	2.90	3.00

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 Orbis (Medium)
- 24mm Orbis (Large)

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

Orbis
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
- Colour families
- Instruction videos
- Associated products specs.

Ordering Process

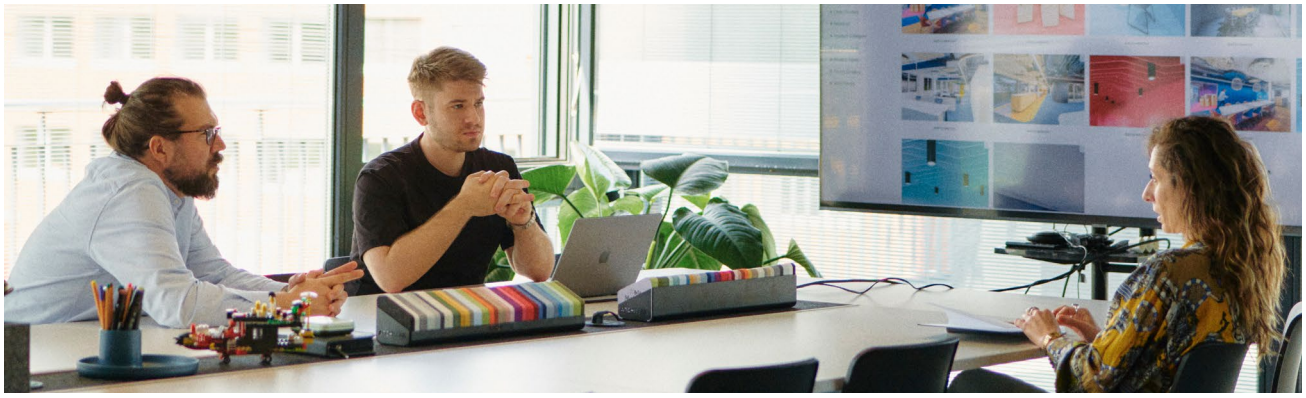
Our experienced team of Project Consultants will guide and support you throughout the order process. We fulfill the majority of our orders in as little as 21 days[1] from your first point of contact, allowing you to focus on what truly matters to you.

1. Contact our consultant
2. Quote[1] — 48 h
3. Order Confirmation
4. Production[1] — 2 - 3 weeks
5. Dispatch
6. Transit — location based
7. 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 41 244 14 00 | connect@impactacoustic.com | Online form



1 - Quote and Production times may vary.

#We MakeAn Impact

connect@impactacoustic.com I www.impactacoustic.com