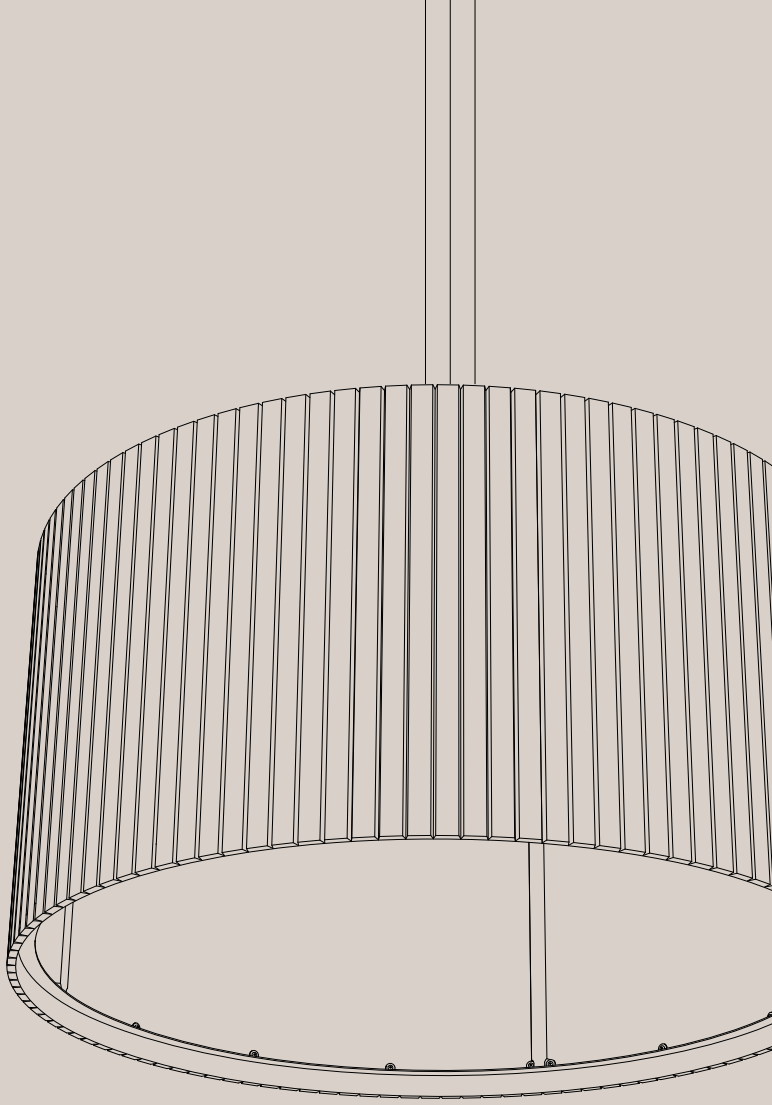
IMPACT ACOUSTIC®



Umbra Round

Acoustic Lighting

722.12.31.000.00
722.12.32.000.00
722.12.33.000.00
722.12.34.000.00
722.12.35.000.00

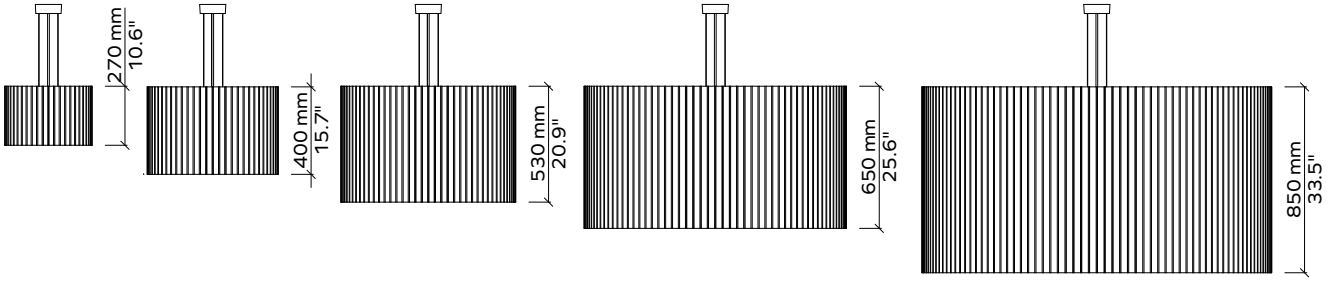
TECHNICAL DATA SHEET

HABITAT MATTER
habitatmatter.com
spec@habitatmatter.com

Umbra Round
Acoustic Lighting



PRODUCT DIMENSIONS



Ø 400mm	Ø 600mm	Ø 800mm	Ø 1200mm	Ø 1600mm
15.75"	23.62"	31.50"	47.24"	62.99"
EXTRA SMALL	SMALL	MEDIUM	LARGE	EXTRA LARGE
(722.12.31)	(722.12.32)	(723.12.33)	(723.12.34)	(723.12.35)

ARTICLE NUMBERS

Lighting Product	Product Size	Color code	CCT	North American Market
722.12.	31 (Extra 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
	32 (Small)		30 (3000K)	
	33 (Medium)		35 (3500K)	
	34 (Large)			
	35 (Extra Large)		40 (4000K)	

Example: 722.12.32.706.35A

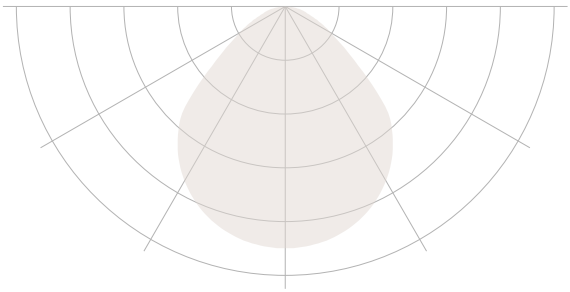
Umbra Small [(800x530mm /31.50x20.87", Spearmint 706 color, 3500K CCT, 110-277V (North America)]

LIGHTING SPECIFICATIONS

For all sizes (722.12.)

Output	Direct Only
Total Lumen Output (lm)	1580
Wattage	19
Efficacy (lm/W)	84.16
Diffuser	Opal
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

HABITAT MATTER
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ARCHISONIC®
Colours

HABITAT MATTER
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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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Umbra Round
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

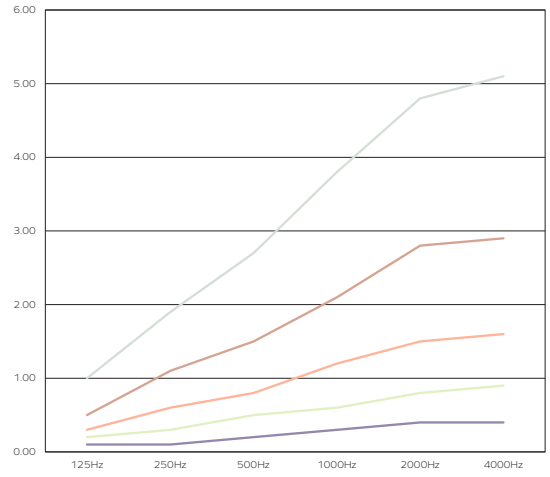
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM E795-16	Standard Practices for Mounting Test Specimens During Sound Absorption Tests

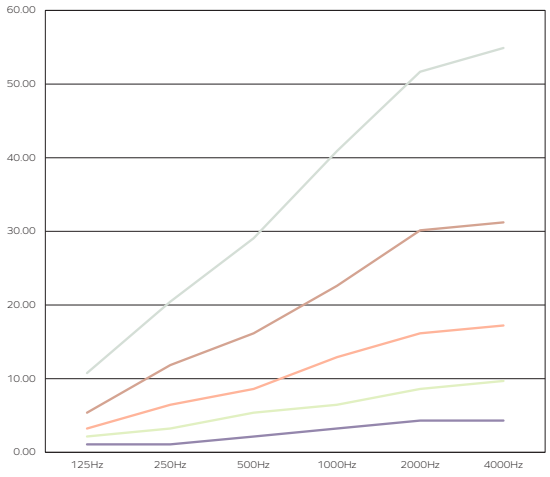
ISO — **Equivalent Absorption Surface Area for the object (Aeq) (m^2)**

Frequency (Hz)	XS	S	M	L	XL
125	0.10	0.20	0.30	0.50	1.00
250	0.10	0.30	0.60	1.10	1.90
500	0.20	0.50	0.80	1.50	2.70
1000	0.30	0.60	1.20	2.10	3.80
2000	0.40	0.80	1.50	2.80	4.80
4000	0.40	0.90	1.60	2.90	5.10

ASTM — **Sabins (ft^2)**

Frequency (Hz)	XS	S	M	L	XL
125	1.08	2.15	3.23	5.38	10.76
250	1.08	3.23	6.46	11.84	20.45
500	2.15	5.38	8.61	16.15	29.06
1000	3.23	6.46	12.92	22.60	40.90
2000	4.31	8.61	16.15	30.14	51.67
4000	4.31	9.69	17.22	31.22	54.90





Extra Small - Ø 400mm
Small - Ø 600mm
Medium - Ø 800mm
Large - Ø 1200mm
Extra Large - Ø 1600mm

"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

HABITAT MATTER
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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