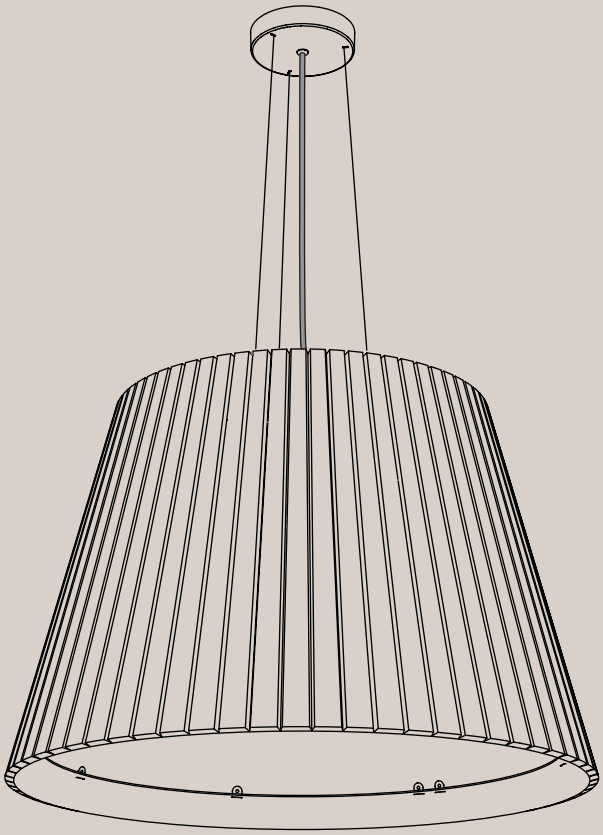
IMPACT ACOUSTIC®



Spark LED Disc
Acoustic Lighting

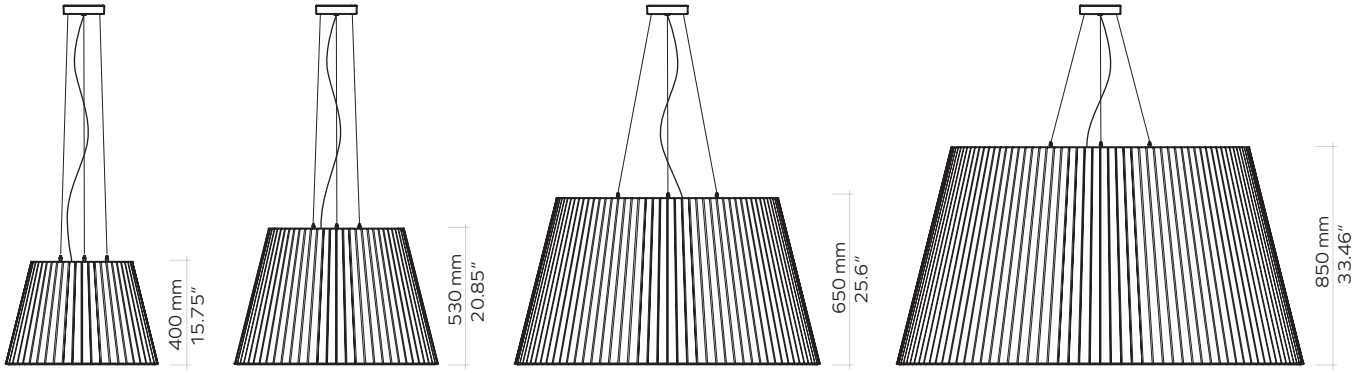
Global Market:
722.12.20.000.00.00
722.12.21.000.00.00
722.12.22.000.00.00
722.12.23.000.00.00

TECHNICAL DATA SHEET

Spark LED Disc
Acoustic Lighting



ARTICLE NUMBERS



Ø 600mm
23.62"
SMALL
(722.12.20)

Ø 800mm
31.50"
MEDIUM
(722.12.21)

Ø 1200mm
47.24"
LARGE
(722.12.22)

Ø 1600mm
62.99"
EXTRA LARGE
(722.12.23)

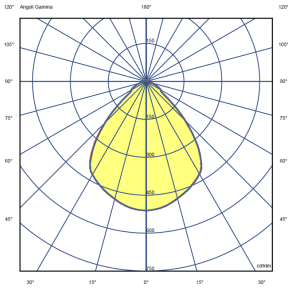
Lighting Product	Product Size	Colour code	Dimming	CCT	Market Voltages
722.12.	**20.** (Small)	Choose colour as shown on pg. 7	**DALI** (Standard Voltage)	**30** (3000 K) **40** (4000 K) (other CCTs on request)	**Standard Voltage** (220-240 V)
	21. (Medium)				
	22. (Large)				
	23. (Extra Large)				

Example: 722.12.22.706.00.40
Spark Large [(1200x650mm /47.24x25.6", Spearmint 706 colour, DALI, 4000K CCT, 220-240V (EU)]

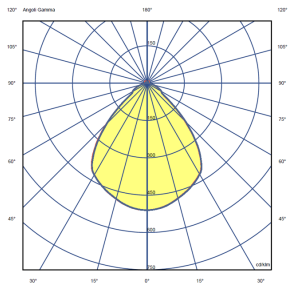
LIGHTING SPECIFICATIONS

	722.12.20-21		722.12.22-23	
Output	Direct		Direct	
Wattage (W)	27		55	
CCT (K)	3000	4000	3000	4000
Lumen LED source (lm)	2850	2920	7250	7655
Total Lumen Output (lm)	1945	1995	4910	4989
Efficacy (lm/W)	72	74	90	92
Diffuser	Opal			
Dimming	DALI			
CRI	90			
Voltage (V)	220 - 240			
Driver Location	On-Board			

LIGHT DISTRIBUTION GRAPH



Spark 600 & 800 mm

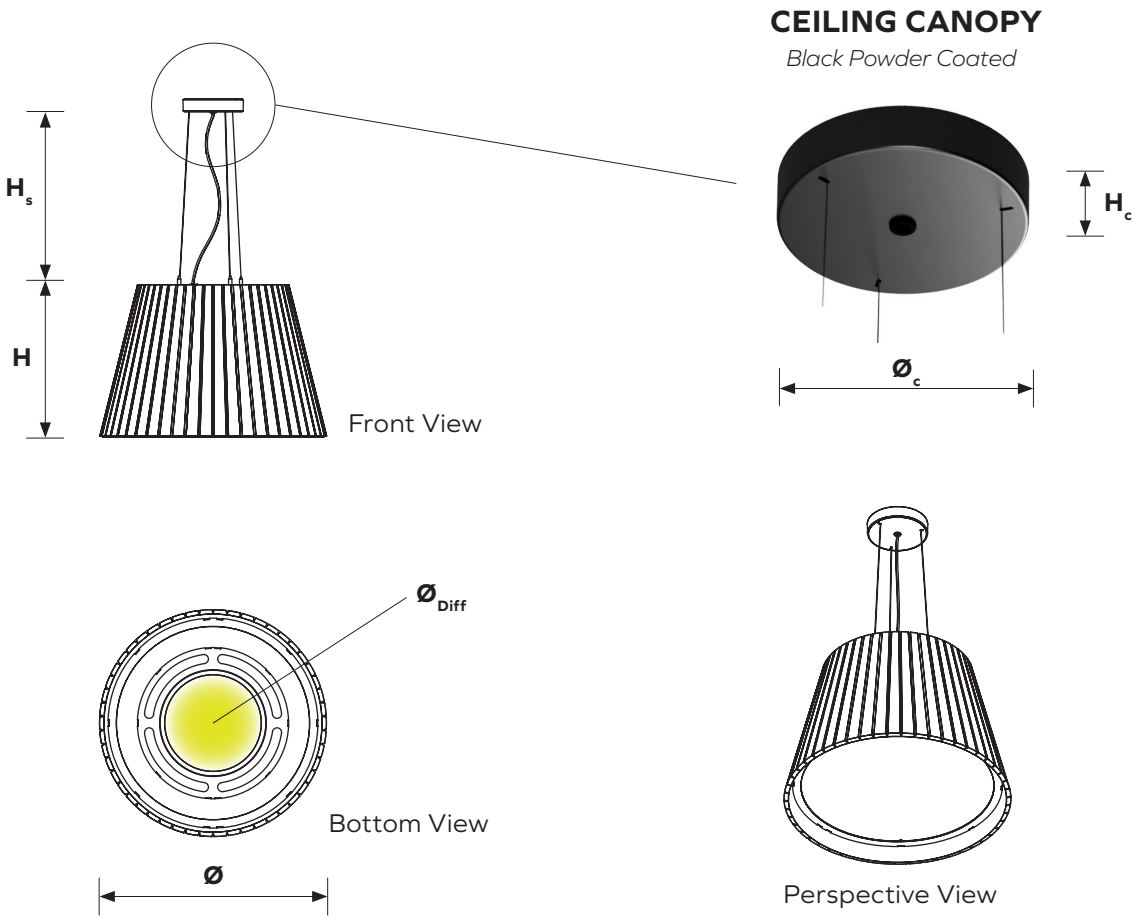


Spark 1200 & 1600 mm

CERTIFICATIONS

Spark LED Disc
Geometry Information

SMALL 722.12.20.000.00.00

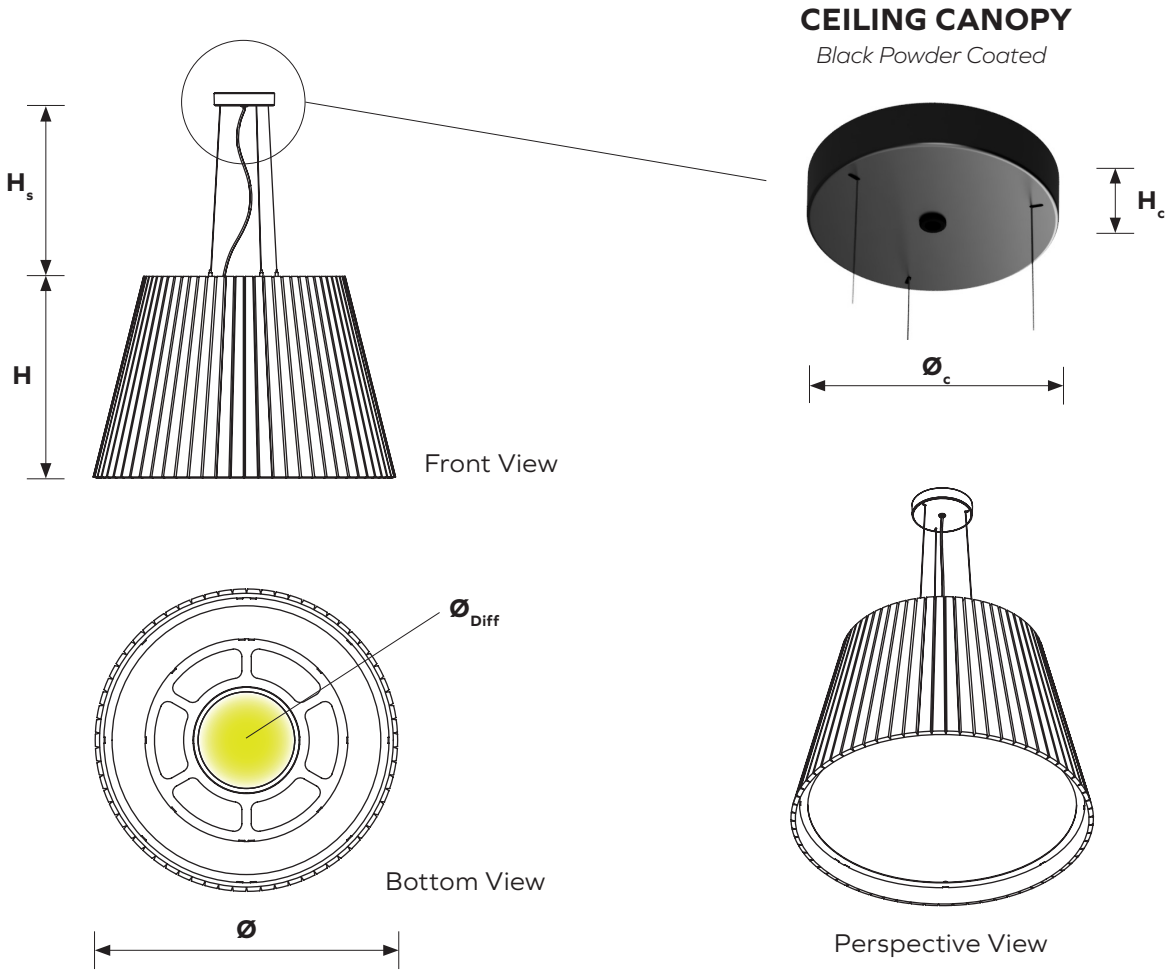


Dimensions		**SMALL** 722.12.20.000.00.00
Ø	Diameter	600 mm / 23.62″
H	Height	400 mm / 15.75″
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11.02″
$Ø_c$	Ceiling Canopy Diameter	160 mm / 6.29″
H_c	Ceiling Canopy Height	35 mm / 1.37″
H_s	Suspension Height	1500 mm / 59.1″ - 6000 mm / 236.2″ (on request)

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Spark LED Disc
Geometry Information

MEDIUM 722.12.21.000.00.00

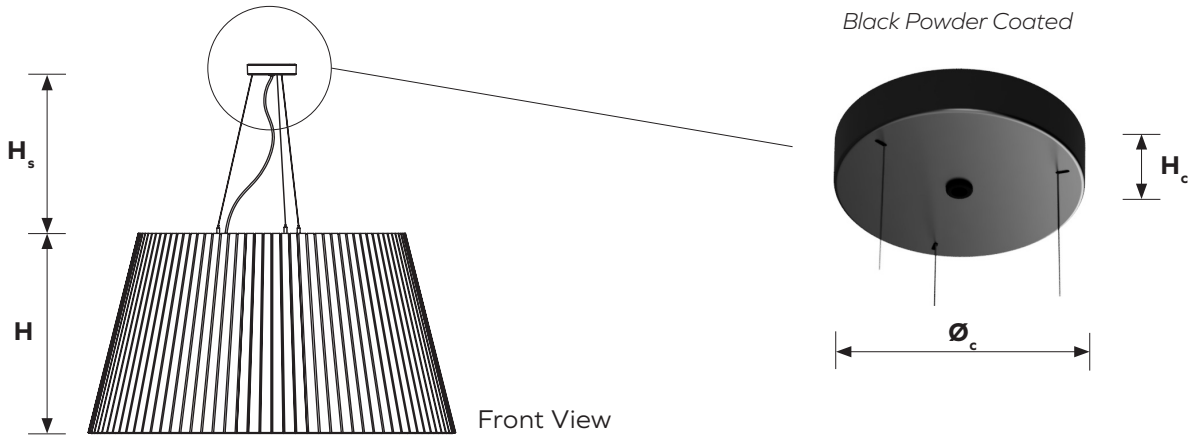


Dimensions		**MEDIUM** 722.12.21.000.00.00
Ø	Diameter	800 mm / 31.50″
H	Height	530 mm / 20.85″
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11.02″
$Ø_c$	Ceiling Canopy Diameter	160 mm / 6.29″
H_c	Ceiling Canopy Height	35 mm / 1.37″
H_s	Suspension Height	1500 mm / 59.1″ - 6000 mm / 236.2″ (on request)

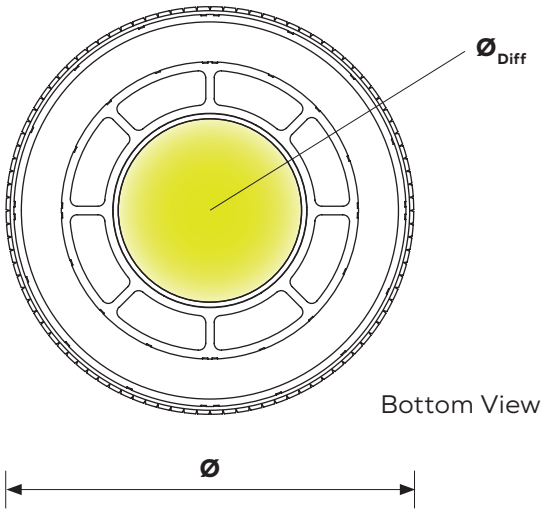
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Spark LED Disc
Geometry Information

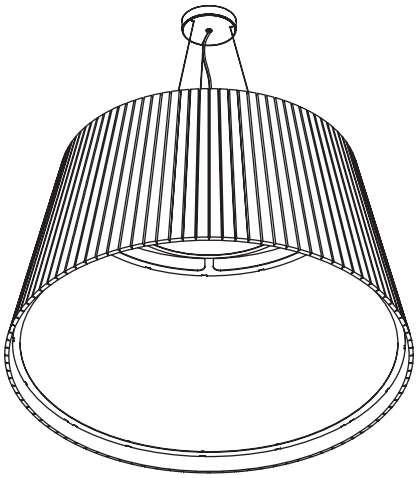
LARGE 722.12.22.000.00.00



Front View



Bottom View



Perspective View

Dimensions		**LARGE** 722.12.22.000.00.00
Ø	Diameter	1200 mm / 47.24”
H	Height	650 mm / 25.60”
$Ø_{Diff}$	Diffuser Diameter	570 mm / 22.44”
$Ø_c$	Ceiling Canopy Diameter	160 mm / 6.29”
H_c	Ceiling Canopy Height	35 mm / 1.37”
H_s	Suspension Height	1500 mm / 59.1” - 6000 mm / 236.2” (on request)

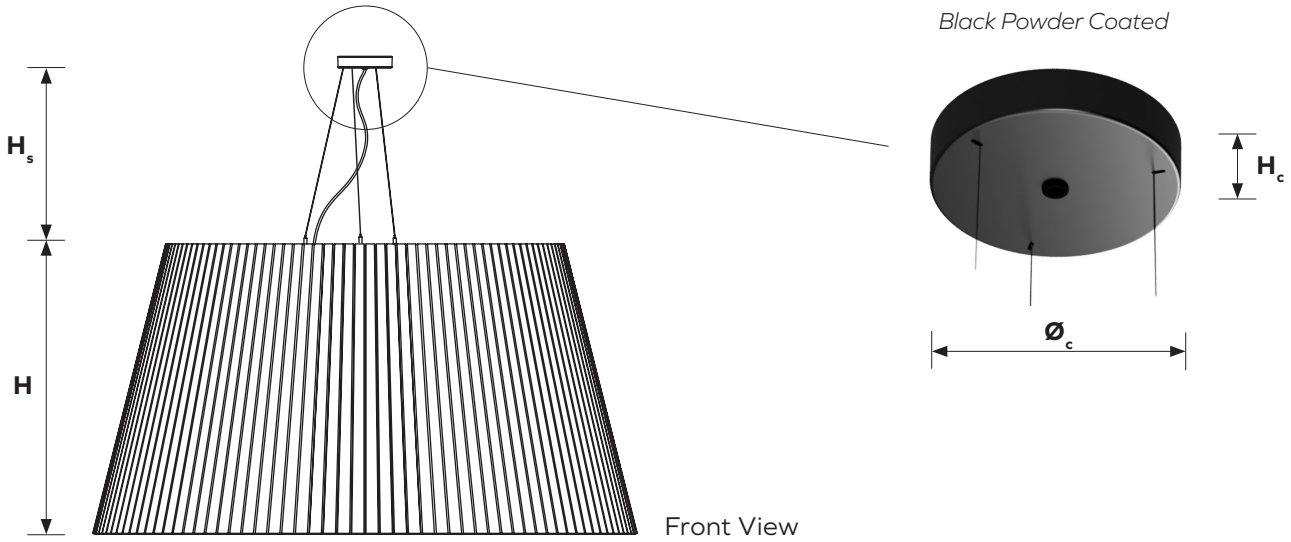
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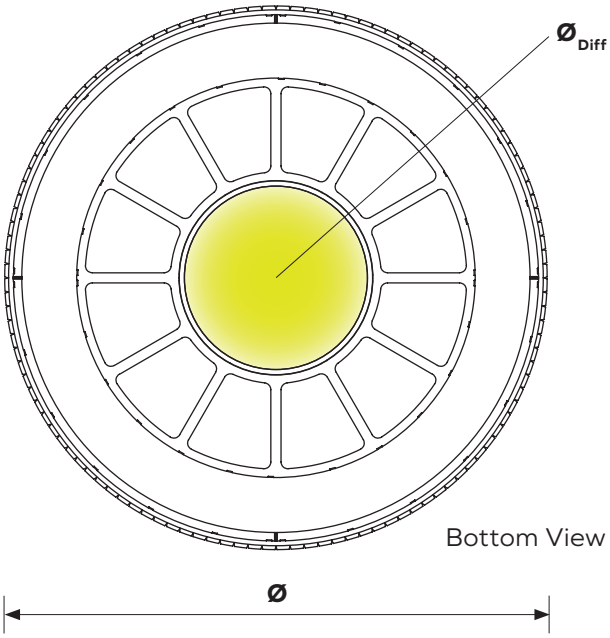
Spark LED Disc
Geometry Information

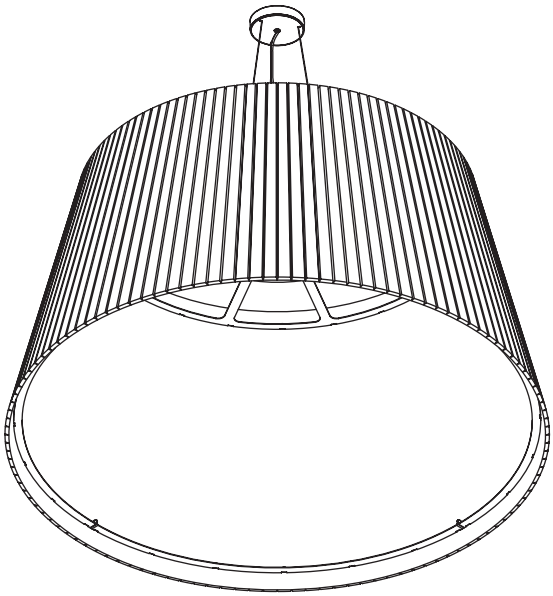
EXTRA LARGE 722.12.23.000.00.00

CEILING CANOPY

Black Powder Coated






Perspective View

Dimensions		EXTRA LARGE 722.12.23.000.00.00
Ø	Diameter	1600 mm / 62.99″
H	Height	850 mm / 33.46″
$Ø_{Diff}$	Diffuser Diameter	570 mm / 22.44″
$Ø_c$	Ceiling Canopy Diameter	160 mm / 6.29″
H_c	Ceiling Canopy Height	35 mm / 1.37″
H_s	Suspension Height	1500 mm / 59.1″ - 6000 mm / 236.2″ (on request)

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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-R90 B	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]	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)
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]	12 mm: 0.039 W/m·K 24 mm: 0.037 W/m·K	
Thermal Resistance[5]	12 mm: 0.30 m²K/W 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

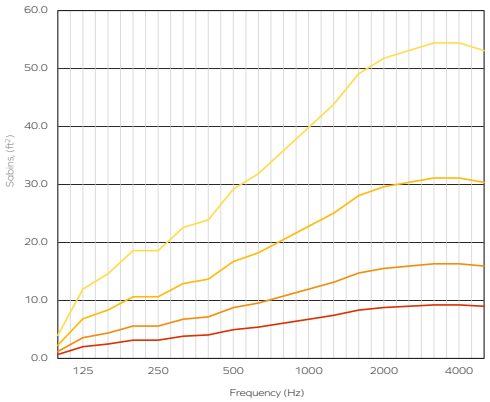
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Spark LED Disc
Acoustic Performance

University of Stuttgart
Germany

Testing Standards

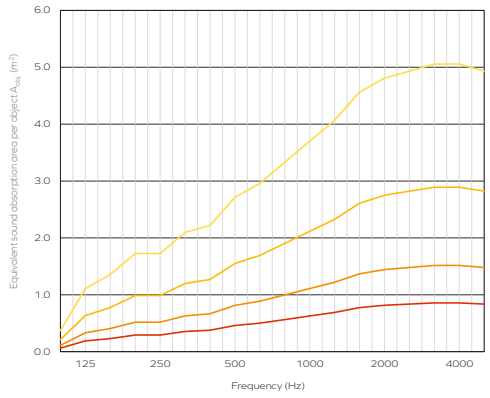
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound 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 Performance - ASTM Sabins , ft²

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Spark (Small)	2.15	3.23	4.31	6.46	8.61	9.69
12mm Spark (Medium)	3.23	6.46	8.61	11.84	15.07	16.15
12mm Spark (Large)	5.38	11.84	16.15	22.60	29.06	31.22
12mm Spark (Extra Large)	9.69	19.38	27.99	39.83	51.67	53.82

The graph represents the Sabins (ft^2) in the third octave band center frequencies in accordance with ASTM C423.



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

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Spark (Small)	0.2	0.3	0.4	0.6	0.8	0.9
12mm Spark (Medium)	0.3	0.6	0.8	1.1	1.4	1.5
12mm Spark (Large)	0.5	1.1	1.5	2.1	2.7	2.9
12mm Spark (Extra Large)	0.9	1.8	2.6	3.7	4.8	5.0

The graph represents the equivalent sound absorption 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.

- 12mm Spark (Small)
- 12mm Spark (Medium)
- 12mm Spark (Large)
- 12mm Spark (Extra Large)

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Spark LED Disc
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

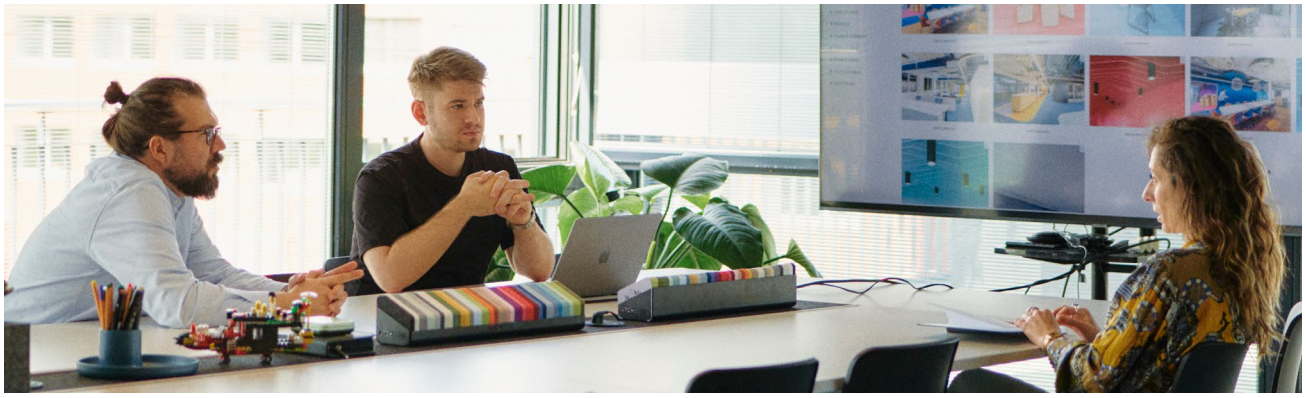
Our experienced team of Project Consultants will guide and support you throughout the order process. We fulfill the majority of our orders in as little as 21 days[1] from your first point of contact, allowing you to focus on what truly matters to you.

Contact our consultant → Quote[1] 48 h → Order Confirmation → Production[1] 2 - 3 weeks → Dispatch → 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.

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1 - Quote and Production times may vary.

#We MakeAn Impact

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