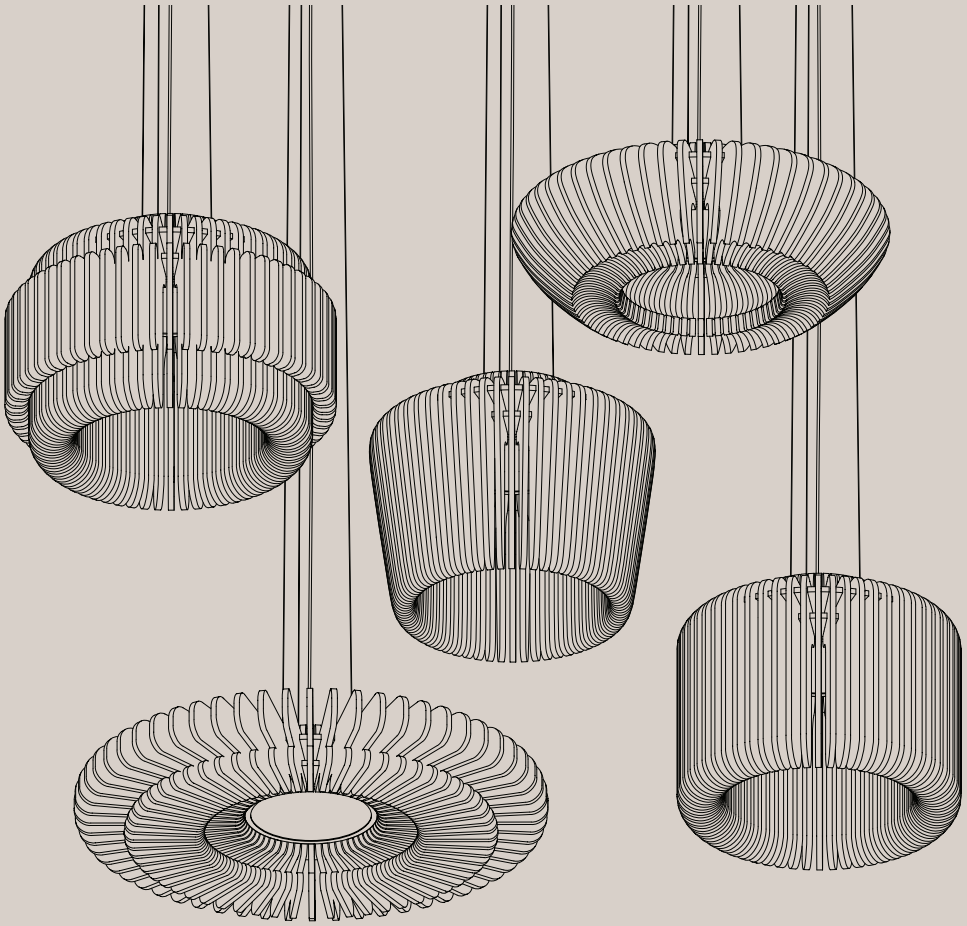
IMPACT ACOUSTIC®



RAYA Collection

Acoustic Lighting

Global Market:

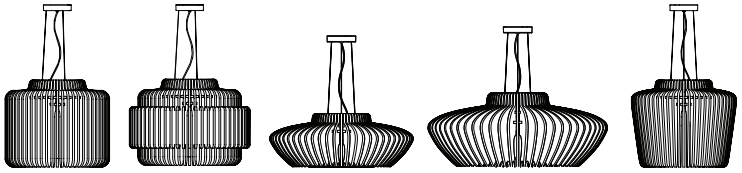
722.12.51.000.00.00	722.12.56.000.00.00
722.12.52.000.00.00	722.12.57.000.00.00
722.12.53.000.00.00	722.12.58.000.00.00
722.12.54.000.00.00	722.12.59.000.00.00
722.12.55.000.00.00	722.12.60.000.00.00

TECHNICAL DATA SHEET

RAYA Collection
Acoustic Lighting

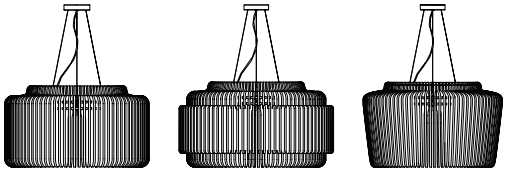
ARTICLE NUMBERS

Diffuser Diameter
280mm / 11 1/32”



Ø 600 mm 23 5/8” H 500 mm 19 11/16” AURELIA SMALL (722.12.51)	Ø 700 mm 27 9/16” H 500 mm 19 11/16” ALBA SMALL (722.12.53)	Ø 800 mm 31 1/2” H 300 mm 11 13/16” COVO SMALL (722.12.55)	Ø 1000 mm 39 3/8” H 415 mm 16 11/32” COVO MEDIUM (722.12.56)	Ø 600 mm 23 5/8” H 500 mm 19 11/16” ZORA SMALL (722.12.59)

Diffuser Diameter
570mm / 22 7/16”



Ø 900 mm 35 7/16” H 550 mm 21 21/32” AURELIA MEDIUM (722.12.52)	Ø 1000 mm 39 3/8” H 550 mm 21 21/32” ALBA MEDIUM (722.12.54)	Ø 900 mm 35 7/16” H 550 mm 21 21/32” ZORA MEDIUM (722.12.60)

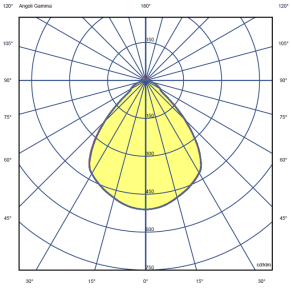
Lighting Product	Product Size	Colour code	Dimming	CCT	Market Voltages
722.12.	**51.** (Aurelia S) **52.** (Aurelia M) **53.** (Alba S) **54.** (Alba M) **55.** (Covo S) **56.** (Covo M) **59.** (Zora S) **60.** (Zora M)	Choose colour as shown on pg. 9 - 10	**00.** (DALI) **20.** (0-10V)	**30** (3000 K) **40** (4000 K) (other CCT on request)	**Standard Voltage** (220 - 240 V) **A** for USA Market (110 - 277 V)

Example: 722.12.60.706.20.30
Zora Medium [(900x550mm /47 1/4”x21 21/32”, Spearmint 706 colour, DALI, 3000K CCT, 220-240V (EU)]

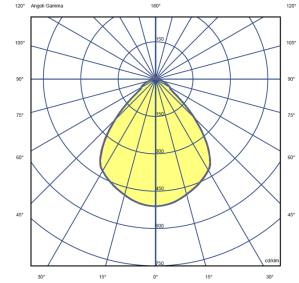
LIGHTING SPECIFICATIONS

	722.12.51, 53, 55, 56,59		722.12.52, 54,60	
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	0-10V / DALI			
CRI	90			
Voltage (V)	220 - 240 / 110 - 277			
Driver Location	On-Board			

LIGHT DISTRIBUTION GRAPH



Aurelia S
Alba S
Covo S
Covo M
Zora S



Aurelia M
Alba M
Zora M

CERTIFICATIONS

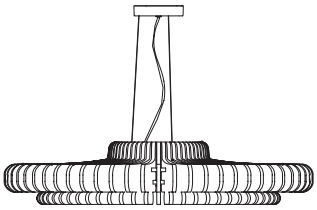
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(Philippines) philippines@impactacoustic.com (+63) 285 80 02 50

RAYA Collection

Geometry Information

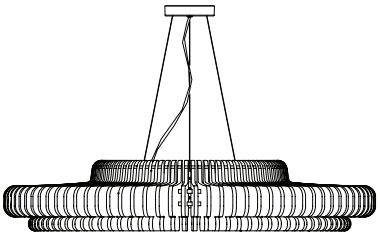
ARTICLE NUMBERS

Diffuser Diameter
280mm / 11 1/32"



Ø 1000 mm - 39 3/8"
H 200 mm - 7 7/8"
HELIA SMALL
(722.12.57)

Diffuser Diameter
570mm / 22 7/16"



Ø 1200 mm - 47 1/4"
H 230 mm - 9 1/16"
HELIA MEDIUM
(722.12.58)

Lighting Product	Product Size	Colour code	Dimming	CCT	Market Voltages
722.12.	**57.** (Helia S) **58.** (Helia M)	Choose colour as shown on pg. 9 - 10	**00.** (DALI) **20.** (0-10V)	**30** (3000 K) **40** (4000 K) (other CCT on request)	**Standard Voltage** (220 - 240 V) **A** for USA Market (110 - 277 V)

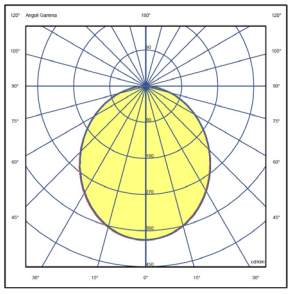
Example: 722.12.58.706.20.30

Helia Medium [(1200x230mm /47 1/4" x 9 1/16", Spearmint 706 colour, DALI, 3000K CCT, 220-240V (EU)]

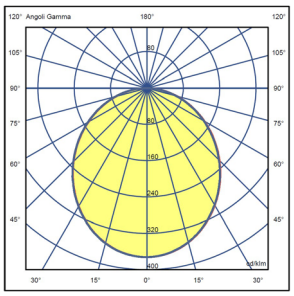
LIGHTING SPECIFICATIONS

	722.12.57,59		722.12.58,60	
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	0-10V / DALI			
CRI	90			
Voltage (V)	220 - 240 / 110 - 277			
Driver Location	On-Board			

LIGHT DISTRIBUTION GRAPH



Helia S

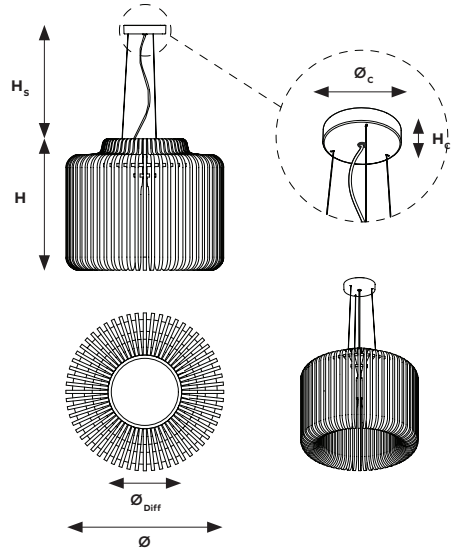


Helia M

CERTIFICATIONS

RAYA Collection
Geometry Information

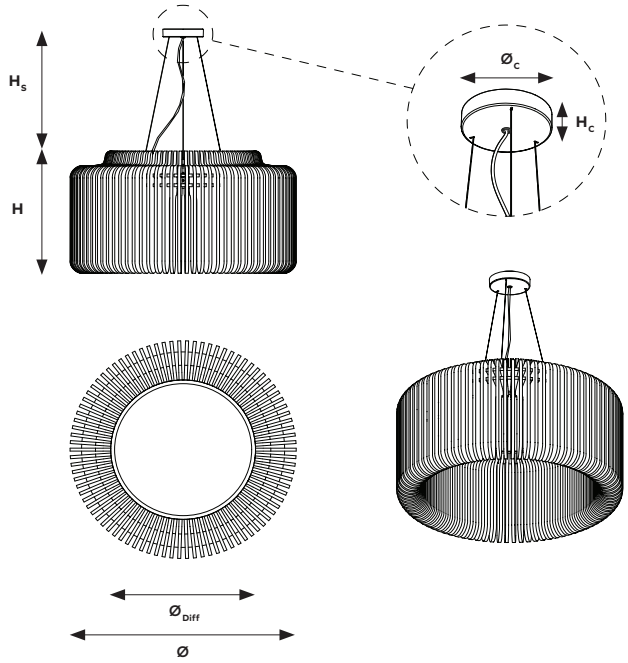
1 RAYA - Aurelia 600mm *722.12.51.000.00.00*



Dimensions[1]

Ø	Diameter	600 mm / 23 5/8″
H	Height	500 mm / 19 11/16″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11 1/32″
	Weight	10.5 kg

2 RAYA - Aurelia 900mm *722.12.52.000.00.00*



Dimensions[1]

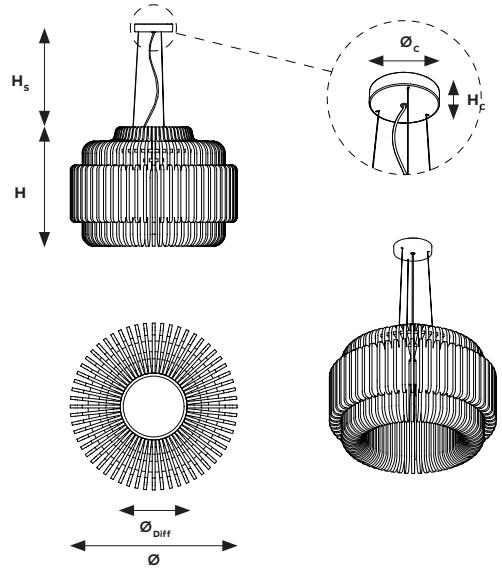
Ø	Diameter	900 mm / 35 7/16″
H	Height	550 mm / 21 21/32″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	570 mm / 22 7/16″
	Weight	20 kg

1 - All dimensions are nominal

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RAYA Collection
Geometry Information

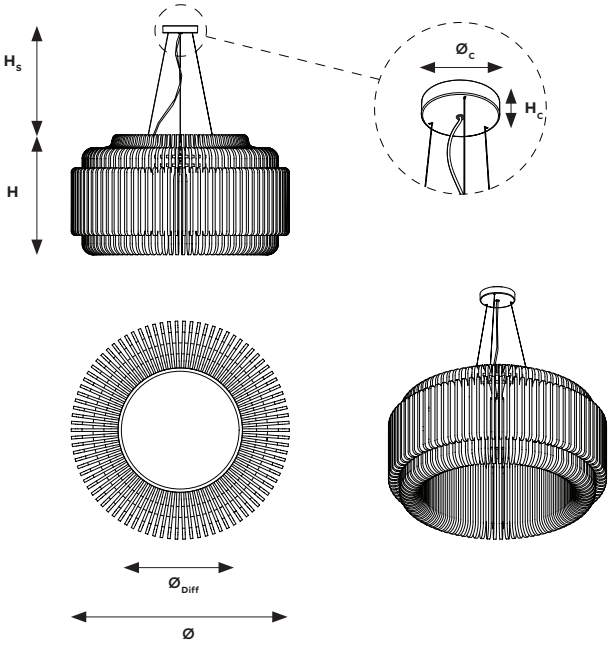
3 RAYA- Alba 700mm *722.12.53.000.00.00*



Dimensions[1]

Ø	Diameter	700 mm / 27 9/16″
H	Height	500 mm / 19 11/16″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11 1/32″
	Weight	12 kg

4 RAYA - Alba 1000mm *722.12.54.000.00.00*



Dimensions[1]

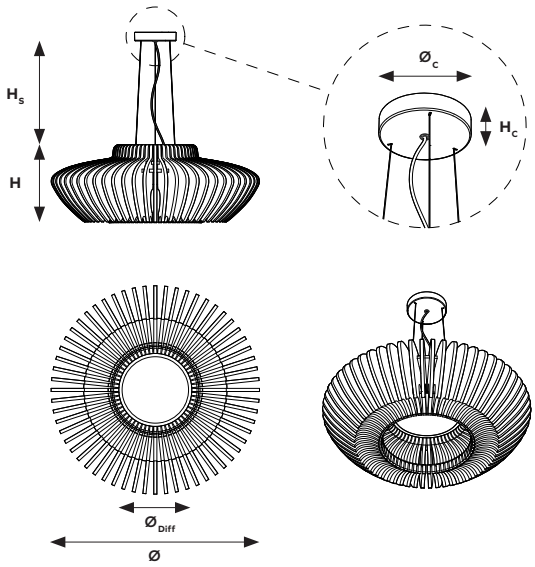
Ø	Diameter	1000 mm / 39 3/8″
H	Height	550 mm / 21 21/32″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	570 mm / 22 7/16″
	Weight	23.5 kg

1 - All dimensions are nominal

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RAYA Collection
Geometry Information

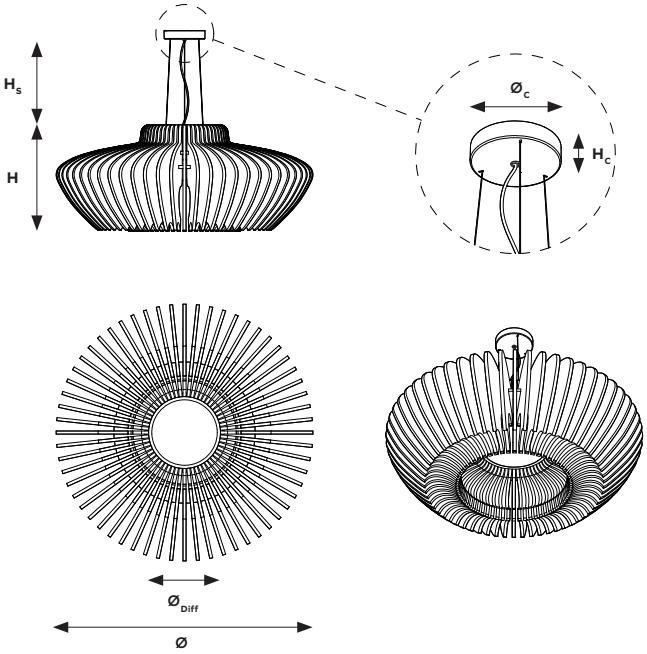
5 RAYA - Covo 800mm *722.12.55.000.00.00*



Dimensions[1]

Ø	Diameter	800 mm / 31 1/2”
H	Height	300 mm / 11 13/16”
H_s	Suspension Height	1500mm / 59 1/16”
H_c	Ceiling Canopy Height	35 mm / 1 3/8”
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64”
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11 1/32”
	Weight	9 kg

6 RAYA - Covo 1000mm *722.12.56.000.00.00*



Dimensions[1]

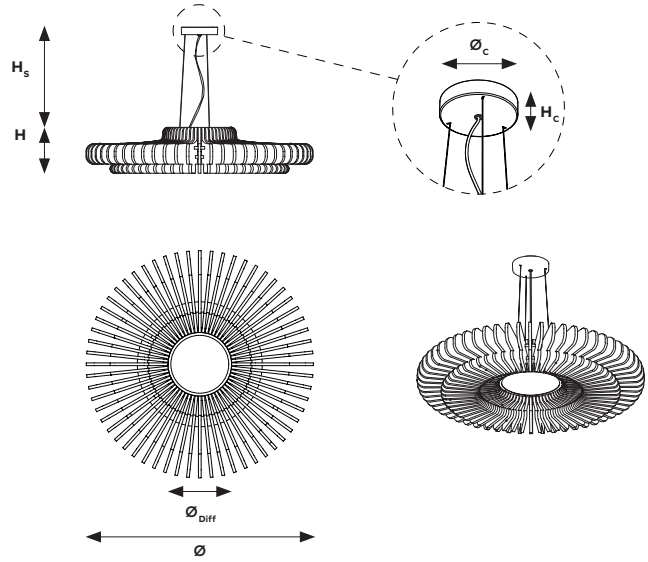
Ø	Diameter	1000 mm / 39 3/8”
H	Height	415 mm / 16 11/32”
H_s	Suspension Height	1500 mm / 59 1/16”
H_c	Ceiling Canopy Height	35 mm / 1 3/8”
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64”
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11 1/32”
	Weight	14 kg

1 - All dimensions are nominal

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RAYA Collection
Geometry Information

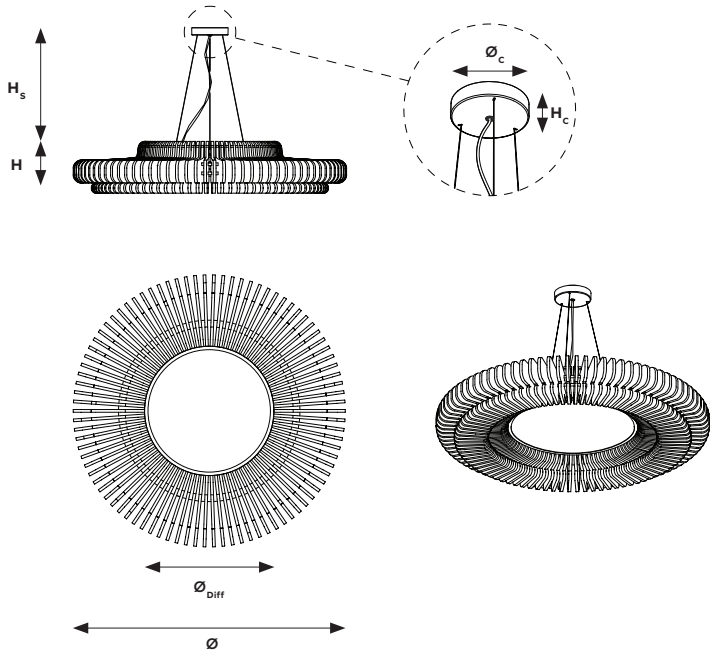
7 RAYA - Helia 1000mm *722.12.57.000.00.00*



Dimensions[1]

Ø	Diameter	1000 mm / 39 3/8″
H	Height	200 mm / 7 7/8″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11 1/32″
	Weight	10 kg

8 RAYA - Helia 1200mm *722.12.58.000.00.00*



Dimensions[1]

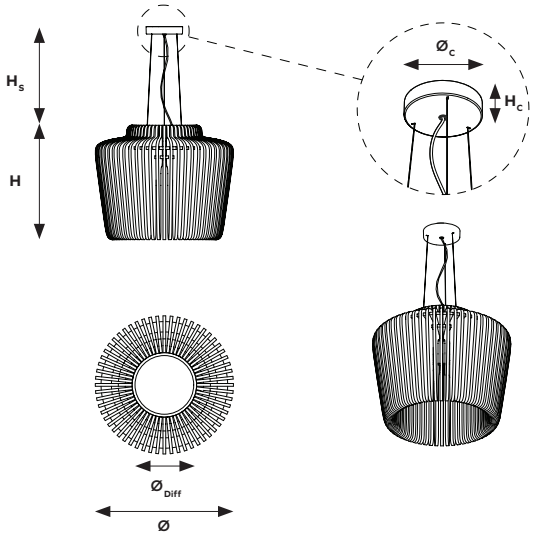
Ø	Diameter	1200 mm / 47 1/4″
H	Height	230 mm / 9 1/16″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	570 mm / 22 7/16″
	Weight	20.5 kg

1 - All dimensions are nominal

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RAYA Collection
Geometry Information

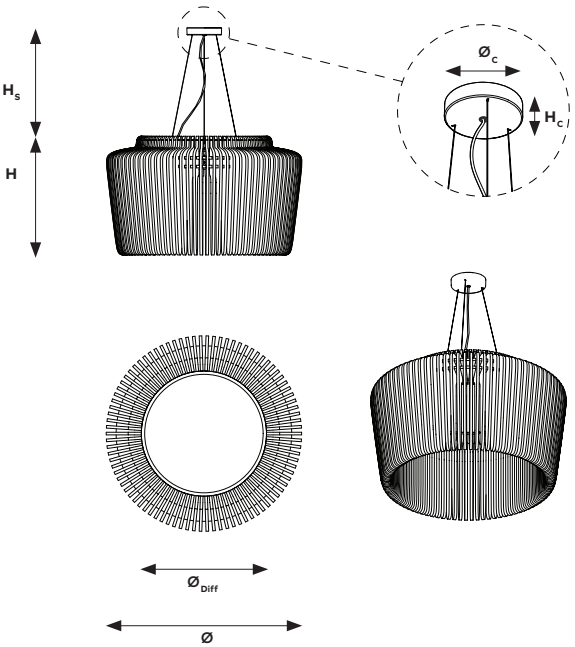
9 RAYA - Zora 600mm *722.12.59.000.00.00*



Dimensions[1]

Ø	Diameter	600 mm / 23 5/8″
H	Height	500 mm / 19 11/16″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	280 mm / 11 1/32″
	Weight	12 kg

10 RAYA - Zora 900mm *722.12.60.000.00.00*



Dimensions[1]

Ø	Diameter	900 mm / 35 7/16″
H	Height	550 mm / 21 21/32″
H_s	Suspension Height	1500 mm / 59 1/16″
H_c	Ceiling Canopy Height	35 mm / 1 3/8″
$Ø_C$	Ceiling Canopy Diameter	160 mm / 6 19/64″
$Ø_{Diff}$	Diffuser Diameter	570 mm / 22 7/16″
	Weight	23.5 kg

1 - All dimensions are nominal

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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-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® Riftcut Natural Collection

Natural Collection colour sets

Riftcut Natural Collection (NC) is a natural wood shade extension to our bestselling Riftcut. Developed in collaboration with German veneer specialists Schotten & Hansen, ARCHISONIC® Riftcut NC introduces 3 different colour groups: elegant brights, essential mids and classical darks.

107

ELEGANT BRIGHTS



240 Pebble



241 Sunlit



242 Blush

920

ESSENTIAL MIDS



243 Malt



244 Honey



245 Mocha

105

CLASSICAL DARKS



246 Woodsmoke



247 Bourbon



248 Twilight

Sustainable Ink

CP65 and RoHS3 compliant

GREENGUARD

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

GOLD

Order a free sample set



ARCHISONIC® Felt
Material Specification

Product Name	ARCHISONIC® Felt
Content	100% PET (60% certified post-consumer content)
Thickness[1]	12mm (0.47”)
Max. Size	1200x2800mm (47”x110”)
Acoustic[2]	**ASTM:** NRC=0.6 **ISO**: αw=0.65
Density[1]	2400 g/m^2 (0.49 lbs/ sqft)
Colour Fastness	**Class 6** ISO 105-B02:A1
Colours	**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
Thermal Resistance[5]	12 mm: 0.30 m^{2}K/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

ARCHISONIC® Felt
Material Specification

Product Name	ARCHISONIC® Felt
Content	100% PET (60% certified post-consumer content)
Thickness[1]	12mm (0.47”)
Max. Size	1200x2800mm (47”x110”)
Acoustic[2,]	**ASTM:** NRC=0.6 **ISO:** αw=0.65
Density[1]	2400 g/m² (0.49 lbs/ sqft)
Colour[6]	**33** printed finishes.
Maintenance[6]	To prevent dust and stains, regularly dust or vacuum with a soft brush. Avoid tools that might scratch the surface. Use mild detergents sparingly for tough stains, blotting instead of rubbing with a microfiber cloth. Test cleaning methods on a hidden area first to check for adverse effects.
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
Thermal Resistance[5]	12 mm: 0.30 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
Ink Certifications[6]	UL Greenguard, No NVC, No VOCs, No TPO, Vegan, compliant with California Prop65 (CP65) and European Directive RoHS3
Durability	Contract

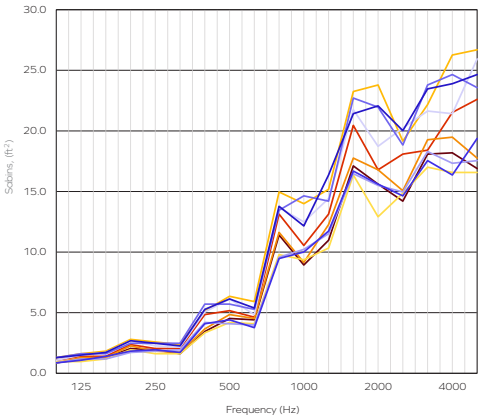
1 - all values are nominal 2 - measured with 300mm air cavity 3 - depending on the location and type of product
4 - the following colours carry a B-S2 fire certificate rating: Hot Pink 140 12mm, Lichen 160 12mm, True Navy 194 24mm, Pacific Ocean 432 24mm, Pacific Ocean 432 12mm, Electric Orange 464 24mm, 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.
6 - valid for Felt Printed products only

Climate-KIC is supported by the EIT, a body of the European Union

RAYA Collection
Acoustic Performance

Testing Standards

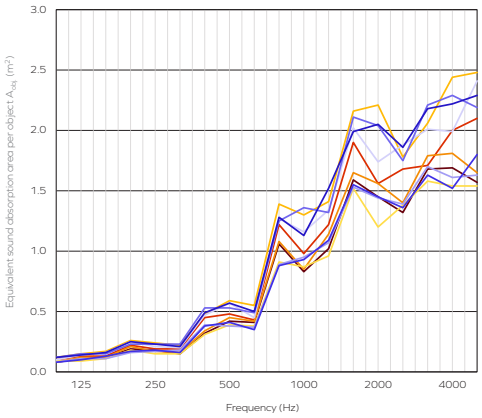
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound 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 , ft^2

Frequency (Hz)	125	250	500	1000	2000	4000
RAYA - Aurelia 600mm	1.1	2.2	4.3	10.8	16.1	17.2
RAYA - Aurelia 900mm	1.1	2.2	5.4	11.8	18.3	20.5
RAYA - Alba 700mm	1.1	2.2	4.3	10.8	16.1	19.4
RAYA - Alba 1000mm	1.1	2.2	5.4	15.1	22.6	24.8
RAYA - Covo 800mm	1.1	2.2	4.3	9.7	15.1	17.2
RAYA - Covo 1000mm	1.1	2.2	5.4	14.0	20.5	22.6
RAYA - Helia 1000mm	1.1	2.2	4.3	10.8	16.1	17.2
RAYA - Helia 1200mm	1.1	2.2	5.4	14.0	21.5	23.7
RAYA - Zera 600mm	1.1	2.2	4.3	10.8	16.1	18.3
RAYA - Zera 900mm	1.1	2.2	5.4	14.0	21.5	23.7

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
RAYA - Aurelia 600mm	0.1	0.2	0.4	1.0	1.5	1.6
RAYA - Aurelia 900mm	0.1	0.2	0.5	1.1	1.7	1.9
RAYA - Alba 700mm	0.1	0.2	0.4	1.0	1.5	1.8
RAYA - Alba 1000mm	0.1	0.2	0.5	1.4	2.1	2.3
RAYA - Covo 800mm	0.1	0.2	0.4	0.9	1.4	1.6
RAYA - Covo 1000mm	0.1	0.2	0.5	1.3	1.9	2.1
RAYA - Helia 1000mm	0.1	0.2	0.4	1.0	1.5	1.6
RAYA - Helia 1200mm	0.1	0.2	0.5	1.3	2.0	2.2
RAYA - Zera 600mm	0.1	0.2	0.4	1.0	1.5	1.7
RAYA - Zera 900mm	0.1	0.2	0.5	1.3	2.0	2.2

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.

- RAYA - Aurelia 600mm
- RAYA - Aurelia 900mm
- RAYA - Alba 700mm
- RAYA - Alba 1000mm
- RAYA - Covo 800mm
- RAYA - Covo 1000mm
- RAYA - Helia 1000mm
- RAYA - Helia 1200mm
- RAYA - Zera 600mm
- RAYA - Zera 900mm

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RAYA Collection
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

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] 6 - 8 Weeks

Dispatch

Transit location based

Delivery

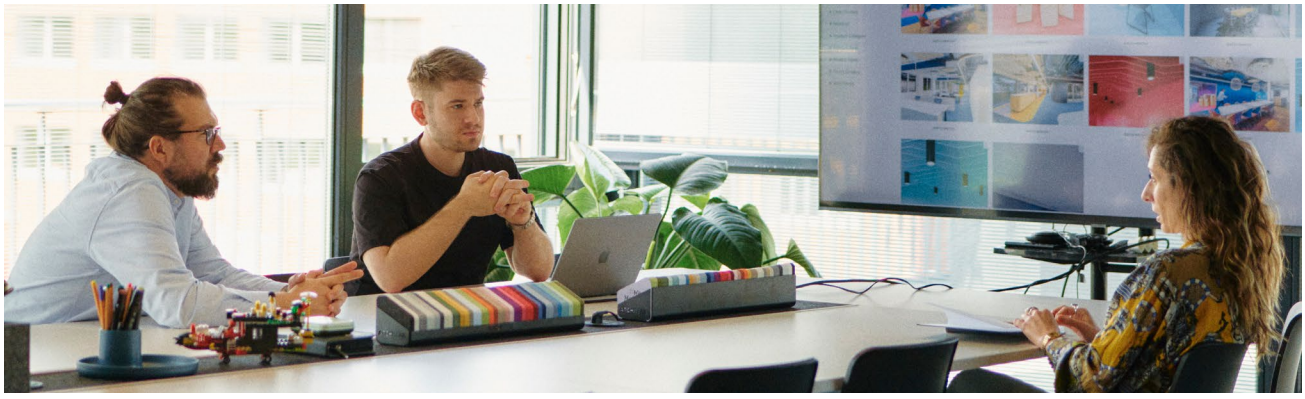
Contact Us

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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Online form



1 - Quote and Production times may vary.

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