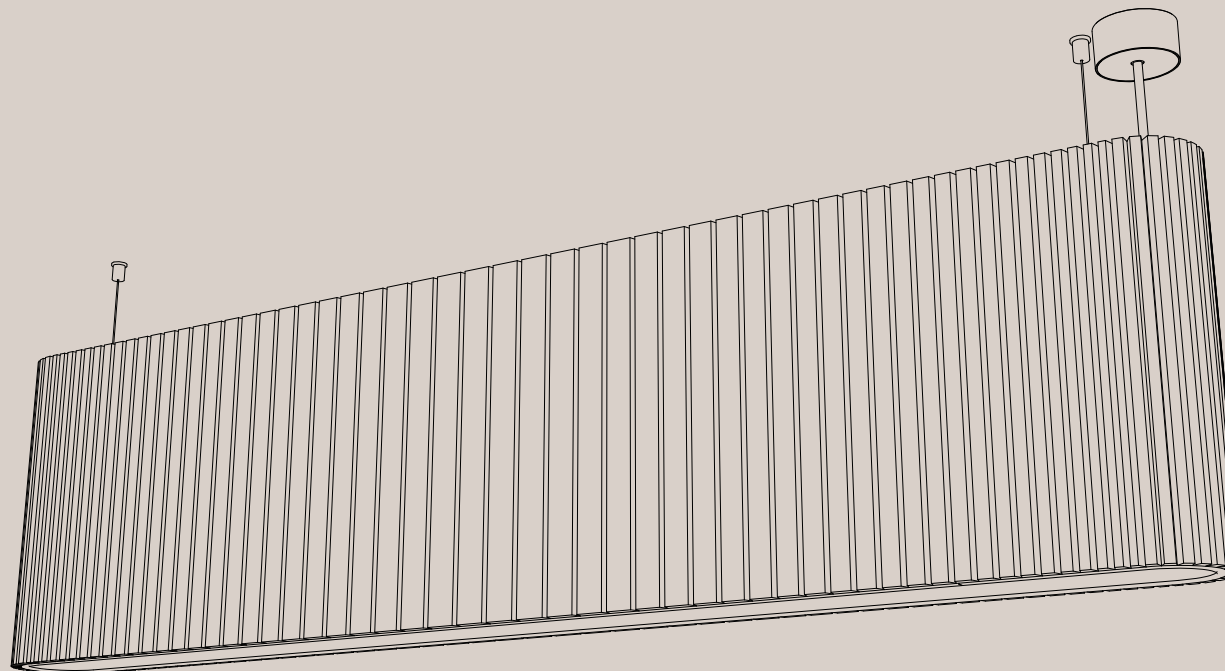


IMPACT ACOUSTIC®



**Densa**

Acoustic Lighting

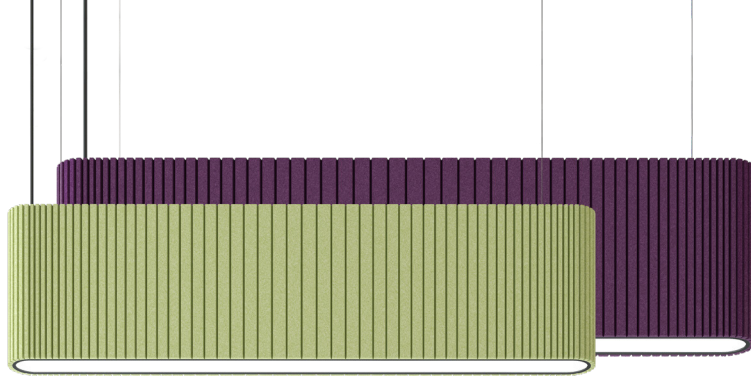
723.12.12.000.00

723.12.13.000.00

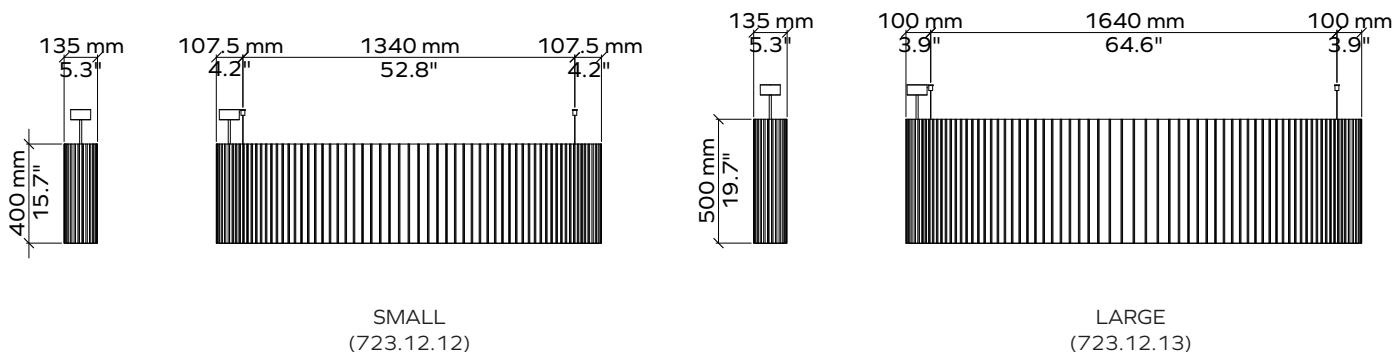
TECHNICAL DATA SHEET

# Densa

## Acoustic Lighting



### PRODUCT DIMENSIONS



### ARTICLE NUMBERS

| Lighting Product | Product Size | Colour code                     | CCT        | North American Market   |
|------------------|--------------|---------------------------------|------------|---|
| 723.12.          | 12 (Small)   | 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 |
|                  | 13 (Large)   |                                 | 30 (3000K) |   |
|                  |              |                                 | 35 (3500K) |   |
|                  |              |                                 | 40 (4000K) |   |

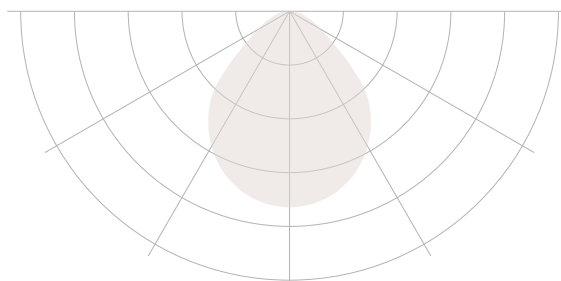
**Example: 723.12.12.706.35A**

Densa Small [(1550 x 135mm/61.22 x 5.31", Spearmint 706 colour, 3500K CCT, 110-277V (North America)]

### LIGHTING SPECIFICATIONS

|                         | Small (723.12.12.)   | Large (723.12.13.) |
|-------------------------|----------------------|--------------------|
| Output                  | Direct               |                    |
| Total Lumen Output (lm) | 2700                 | 3200               |
| Wattage                 | 32                   | 32                 |
| Efficacy (lm/W)         | 84                   | 100                |
| Diffuser                | Microprism           |                    |
| Beam Angle              | 92                   |                    |
| CCT                     | 2700-3000-3500-4000K |                    |
| CRI                     | 80+                  |                    |
| MacAdam                 | 3                    |                    |
| Voltage                 | 220 - 240 V / 120V   |                    |
| Dimming                 | 0-10V 0.1% DALI      |                    |
| Driver Location         | On-Board             |                    |


### LIGHT DISTRIBUTION GRAPH





















### CERTIFICATIONS












# ARCHISONIC® Felt Colours

 Material brochure available

|   |   |   |   |   |  |   |   |   |          |
|---|---|---|---|---|--|---|---|---|----------|
|  |  |  |  |  |  |  |  |  |          |
| <b>Name</b>   | Snow White  | Milk  | Cloud   | Gull  | Smoke  | Ground  | Charcoal  | Slate   | Raven    |
| <b>Code</b>   | 500   | 404   | 103   | 144   | 442  | 108   | 542   | 444   | 550      |
| <b>NCS</b>  | S 0300-N  | S 0502-Y  | S 1002-B  | S2502-Y   | S 3005-R80B  | S 5005-Y20R   | S 7502-B  | S 4500-N  | S 8500-N |

|   |   |   |   |   |  |   |   |   |           |
|---|---|---|---|---|--|---|---|---|-----------|
|  |  |  |  |  |  |  |  |  |           |
| <b>Name</b>   | Nordic Pine   | Grove   | Fern  | Moss  | Spearmint  | Ice Blue  | Succulent   | Deep Sea  | True Navy |
| <b>Code</b>   | 311   | 317   | 180   | 439   | 706  | 304   | 712   | 918   | 194       |
| <b>NCS</b>  | S 5030-G10Y   | S 7020-G30Y   | S6010-G90Y  | S 2040-G40Y   | S 1010-B90G  | S 0510-B  | S 3020-B30G   | S 5020-R90B   | S8005-B   |

|   |   |   |   |   |  |   |   |   |             |
|---|---|---|---|---|--|---|---|---|-------------|
|  |  |  |  |  |  |  |  |  |             |
| <b>Name</b>   | Lichen  | Linen   | Shell Pink  | Jute  | Warm Stone   | Terracotta  | Soft Coral  | Honeycomb   | Sunshine    |
| <b>Code</b>   | 160   | 107   | 102   | 920   | 105  | 239   | 516   | 139   | 846         |
| <b>NCS</b>  | S4005-Y   | S 1505-Y30R   | S 0510-R30B   | S 3010-Y30R   | S 3010-Y50R  | S 4040-Y70R   | S 2020-Y90R   | S 2050-Y20R   | S 1040-Y10R |

|   |   |   |   |   |  |   |   |   |             |
|---|---|---|---|---|--|---|---|---|-------------|
|  |  |  |  |  |  |  |  |  |             |
| <b>Name</b>   | Garnet  | Hot Pink  | Poster Red  | Electric Orange   | Winter Sky   | Pacific Ocean   | Midnight  | Grape   | Marine Blue |
| <b>Code</b>   | 724   | 140   | 662   | 464   | 410  | 432   | 810   | 540   | 864         |
| <b>NCS</b>  | S 5040-R10B   | S 2060-R20B   | S 1080-R  | S 0580-Y70R   | S 2020-R90 B   | S 3040-B  | S 7020-R70B   | S 5040-R40B   | S 4050-R70B |

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 36 colours across 8 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



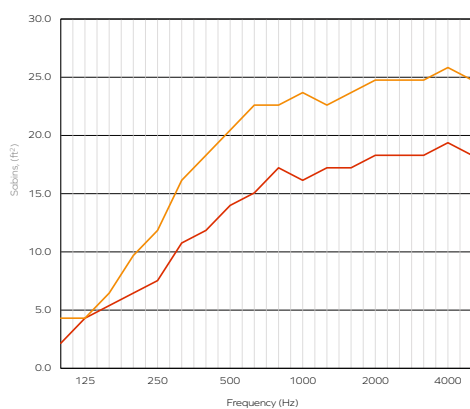
# Densa

## 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  |

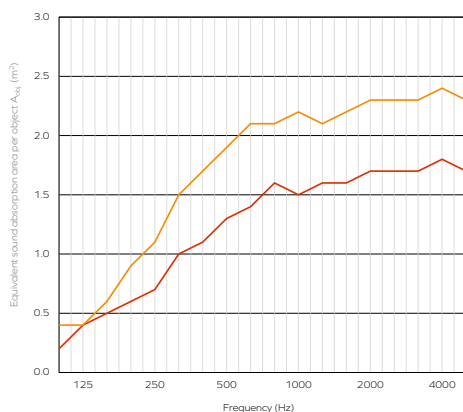


### Acoustic Performance - ASTM Sabins, ft<sup>2</sup>

| Frequency (Hz)     | 125  | 250   | 500   | 1000  | 2000  | 4000  |
|--------------------|------|-------|-------|-------|-------|-------|
| 12mm Densa (Small) | 4.31 | 8.61  | 13.99 | 17.22 | 18.30 | 18.30 |
| 12mm Densa (Large) | 5.38 | 12.92 | 20.45 | 22.60 | 24.76 | 24.76 |

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

- 12mm Densa (Small)
- 12mm Densa (Large)



### Acoustic Performance - ISO A<sub>obj</sub>, m<sup>2</sup>

| Frequency (Hz)     | 125 | 250 | 500 | 1000 | 2000 | 4000 |
|--------------------|-----|-----|-----|------|------|------|
| 12mm Densa (Small) | 0.4 | 0.8 | 1.3 | 1.6  | 1.7  | 1.7  |
| 12mm Densa (Large) | 0.5 | 1.2 | 1.9 | 2.1  | 2.3  | 2.3  |

The graph represents the equivalent sound absorption per object (A<sub>obj</sub>) in the third octave band center frequencies in accordance with ISO 20189. Measurement used Pink Noise as excitation signal in a reverberant room.

- 12mm Densa (Small)
- 12mm Densa (Large)

# ARCHISONIC® Felt

## Material Specification

|   |   |   |
|---|---|---|
| <b>Product Name</b>                     | ARCHISONIC® Felt  |   |
| <b>Content</b>                          | 100% PET (60% certified post-consumer content)  |   |
| <b>Thickness<sup>1</sup></b>            | 12mm (0.47")  | 24mm (0.94")                                      |
| <b>Max. Size</b>                        | 1200x2800mm (47"x110")  | 1800x2400mm (70"x94")                             |
| <b>Acoustic<sup>2</sup></b>             | <b>ASTM:</b> NRC=0.6 <b>ISO:</b> $\alpha_w$ =0.65   | <b>ASTM:</b> NRC=0.9 <b>ISO:</b> $\alpha_w$ =0.95 |
| <b>Density<sup>1</sup></b>              | 2400 g/m <sup>2</sup> (0.49 lbs/ sqft)  | 4000 g/m <sup>2</sup> (0.82 lbs/sqft)             |
| <b>Colour Fastness</b>                  | <b>Class 6</b> ISO 105-B02:A1   |   |
| <b>Colour</b>                           | <b>36 colours</b> (see ARCHISONIC® Felt Colour page for more information)   |   |
| <b>Maintenance</b>                      | 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. |   |
| <b>Production Lead time<sup>3</sup></b> | 21 days   |   |
| <b>Fire Rating</b>                      | DIN EN 13501-1: <b>B-s1, d0</b>   | ASTM E84 <b>Class A</b>                           |
| <b>VOC Emission</b>                     | 28 Days French Regulation <b>A+</b> ASTM E84 <b>Pass</b><br>Bream® (International, UK, NL, SE, NOR) <b>Exemplary</b><br>CDPH (CDPH/EHLB/Standard Method V1.2) <b>Pass</b>   |   |
| <b>Certifications</b>                   | 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), SCS Recycled Content  |   |
| <b>Durability</b>                       | 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



**Declare.**

**DANAK**  
TEST Reg.nr. 522



# Densa

## 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<sup>1</sup> from your first point of contact, allowing you to focus on what truly matters to you.



Contact our  
consultant

Quote<sup>1</sup>

48 h



Order Confirmation

Production<sup>1</sup>

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.



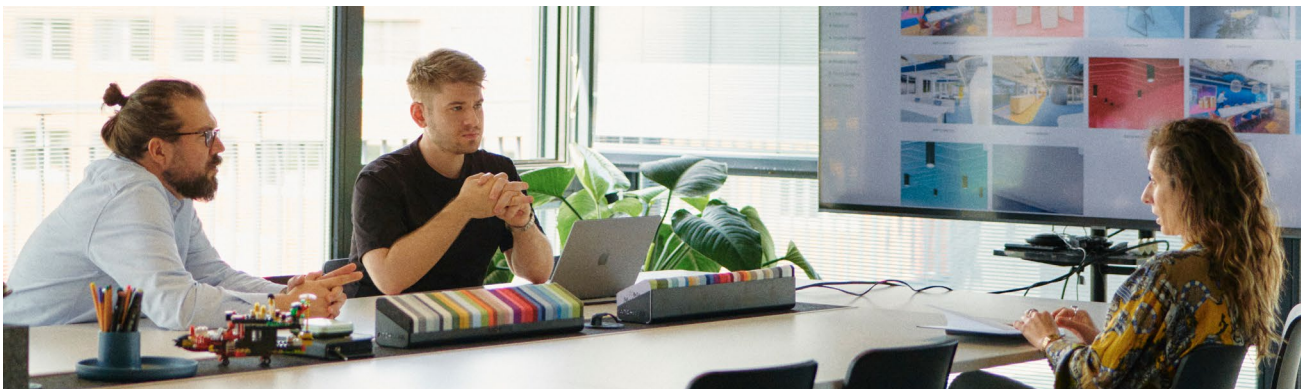
+41 41 244 14 00



connect@impactacoustic.com



Online form



<sup>1</sup> - Quote and Production times may vary.

**#We  
Make An  
Impact**

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