BuzziPleat LED

220-240V

Product Specification Sheet

This document contains technical information about the BuzziPleat LED Globe
**Sculptural pendant enfolds silence and light**

BuzziPleat, a dynamic series of acoustic solutions by 13&9, delivers sound control with architectural edge. Traditional fashion design techniques, like smocking and pleating, are reinterpreted with sound-absorbing BuzziFelt to create large architectural folds, which maximize surface to deliver exceptional acoustic performance. The large-scale, yet lightweight sculptural forms can be suspended from the ceiling or applied as wallhanging. The suspended BuzziPleat LED configuration marries sound control and illumination. It is equipped with BuzziSol, a powerful LED light source. The dimmable warm light gives BuzziPleat an even greater sense of depth.

Design by 13&9 Design

**General**

- Edel | Ripple
- BuzziFelt shade
- LED light source
  - Wattage 19W
  - Input voltage 220-240V
  - Input freq. 50/60 Hz
  - Lumen Output: 1500 lumen
  - Color Temperature: 3000K
  - Dimmable: 1-10V Protocol
- IP20 Dry usage

**Certifications**

LED Light source CE/CB certified

**Acoustics**

- Absorption
- Diffusion

**Content**

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Configurations

**BuzziPleat LED Globe Ripple**

- M, L
  - BuzziFelt shade with OffWhite or Black lace
  - LED Light source with powder coated metal heatsink and ceiling canopy in black (RAL 9005)
  - Frosted glass globe and black fabric power cable
  - LED light source: H 20 cm Ø 15 cm
  - Ceiling canopy: W 14 cm L 28 cm H 4 cm
  - Shade: M Ø 100 cm H 13 cm
    - L Ø 150 cm H 19,5 cm
  - M: 6,7 kg
  - L: 12,4 kg

- Lace: OffWhite or Black
  - Black or alu cables 2 - 5 m | 78.74" - 196.85"

- If installing on suspended ceiling, verify load capacity prior to installation.

**BuzziPleat LED Globe Edel**

- M, L
  - BuzziFelt shade with offWhite or black lace
  - LED Light source with powder coated metal heatsink and ceiling canopy in black (RAL 9005)
  - Frosted glass globe and Black fabric power cable
  - Light element: H 20 cm Ø 15 cm
  - Ceiling canopy: W 14 cm L 28 cm H 4 cm
  - Shade: M Ø 100 cm H 13 cm
    - L Ø 150 cm H 19,5 cm
  - M: 5,7 kg
  - L: 10,4 kg

- Lace: offwhite or black
  - Black or alu cables 2 - 5 m | 78.74" - 196.85"

- If installing on suspended ceiling, verify load capacity prior to installation.
Fabrics

Felt

Composition  100% Recycled P.E.T. Felt, latex backing
Weight  1.000 g/m² | 29.49 oz/yd²
Abrasion resistance  > 7,000 Martindale
Flammability  EU: EN 13501.1 + A1/2009 Class B-s1,d0
USA: ASTM E84 Class A certified
Fastness to light USA 5

FE-OffWhite 63  FE-StoneGrey 67  FE-Lime 64  FE-Anthracite 68
Technical components

BuzziPleat LED Globe

Ceiling canopy

Powder coated metal canopy in black (RAL 9005)
Including mounting bracket

W 14 cm L 28 cm H 4 cm

LED light source

The LED light source consists of a black powder coated metal heatsink fitted with a C.O.B. LED source, finished with a frosted glass globe.
The distance between the light element and the acoustic shade can be adjusted

Felt shade

The lightweight sculptural shade is created by pleating or smocking sound absorbing BuzziFelt.
The architectural folds maximize surface area, delivering exceptional acoustic performance.
Dimensions

BuzziPleat LED Ripple

Width

M  Ø 100 cm
L  Ø 150 cm

Height

M  13 cm
L  19,5 cm

Dimensions

BuzziSpace | BuzziPleat LED
BuzziPleat LED Edel

Height

Width

BuzziSpace | BuzziPleat LED
Acoustics

BuzziPleat Ripple

Absorption coefficient

<table>
<thead>
<tr>
<th>Hz</th>
<th>$\alpha^s$</th>
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<tbody>
<tr>
<td>125</td>
<td>0.11</td>
</tr>
<tr>
<td>250</td>
<td>0.28</td>
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<tr>
<td>500</td>
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<tr>
<td>1000</td>
<td>0.73</td>
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<tr>
<td>2000</td>
<td>0.80</td>
</tr>
<tr>
<td>4000</td>
<td>0.95</td>
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</tbody>
</table>

Absorption values

$\alpha_w$ (ISO 11654) 0.55
NRC (ASTM - C423) 0.60
SAA (ASTM-C423) 0.60
Class (ISO 11654) D

Equivalent sound absorption area in m² per object

<table>
<thead>
<tr>
<th>Hz</th>
<th>M Aeq/m²</th>
<th>L Aeq/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>0.08</td>
<td>0.20</td>
</tr>
<tr>
<td>250</td>
<td>0.21</td>
<td>0.50</td>
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<tr>
<td>500</td>
<td>0.40</td>
<td>0.90</td>
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<tr>
<td>1000</td>
<td>0.58</td>
<td>1.30</td>
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<tr>
<td>2000</td>
<td>0.62</td>
<td>1.40</td>
</tr>
<tr>
<td>4000</td>
<td>0.75</td>
<td>1.70</td>
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</tbody>
</table>

Glossary p.9
Glossary

All calculations are based on accredited lab measurements, official document available on Buzzi.Space

Definitions

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Reference</th>
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<tbody>
<tr>
<td>α</td>
<td>Weighted absorption coefficient</td>
<td>(ISO 11654)</td>
</tr>
<tr>
<td>NRC</td>
<td>Noise reduction coefficient</td>
<td>(ASTM - C423)</td>
</tr>
<tr>
<td>SAA</td>
<td>Sound absorption average</td>
<td>(ASTM - C423)</td>
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</table>

Classification of sound absorbers

NEN-EN-ISO 11654

<table>
<thead>
<tr>
<th>Class</th>
<th>Values</th>
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<tbody>
<tr>
<td>A</td>
<td>0.90</td>
</tr>
<tr>
<td>B</td>
<td>0.80</td>
</tr>
<tr>
<td>C</td>
<td>0.60</td>
</tr>
<tr>
<td>D</td>
<td>0.03</td>
</tr>
<tr>
<td>E</td>
<td>0.15</td>
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