

# LED-LINARGO

## Baffle Luminaire BL-X

### for acoustic suspensions



ACOUSTIC BAFFLES  
WITH INTEGRATED LUMINAIRE (DIRECT/INDIRECT LIGHTING)



### Linargo Baffle Luminaire

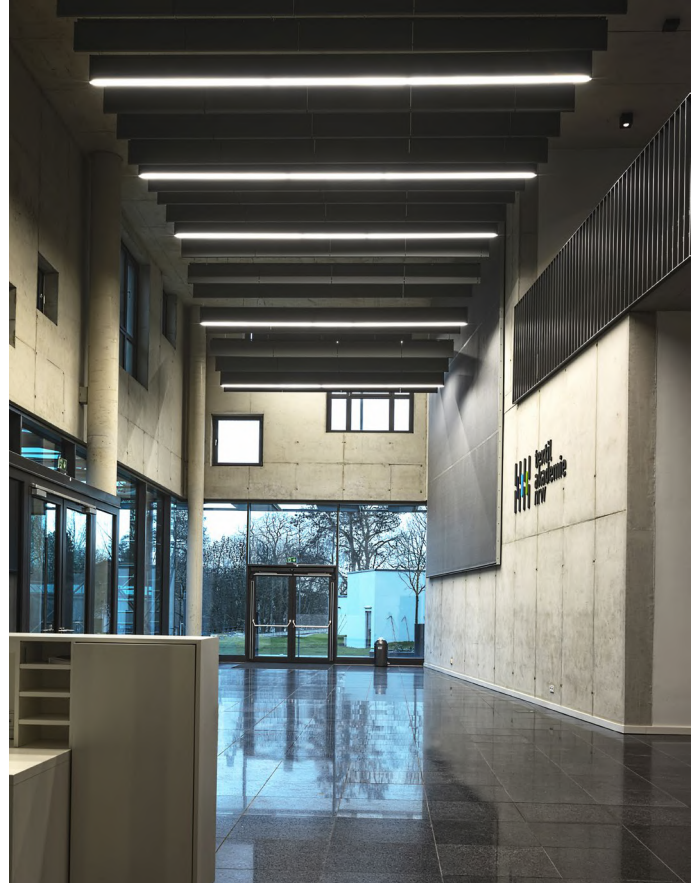
The LED-Linargo baffle luminaire was designed for areas where it is not possible to use a full-surface ceiling to install and where ceiling lights are needed. Baffles are e.g. used in rooms where the room volume should be preserved, daylight to be brought into the rooms via skylights or if TABS (thermoactive component system) as a cooling system was selected.

For the suspension of the baffles different systems can be used: Either the Connect™ baffle profile, Connect™ adjustable wire suspension or Connect™ Suspension System. The system consists of the baffle, braces or hooks and associated Connect™ mounting accessories.

The baffles are made from fiberglass. The baffles are available in different sizes and colors. The visible surfaces are coated with the Akutex™ FT color coating provided, the edges are rectangular and color coated. The system is easy to disassemble.

The luminaire modules comes with perfect homogeneous light spread (direct/indirect), even if several modules are stringed together. They are available in two lengths (approx. 1200 and approx. 1800 mm), special lengths upon request.

The luminaire can be combined with the baffle in two ways: Either the luminaire is attached underneath the baffle (plus 80 mm height with constant relevant acoustic surface) or the baffle height (and the relevant acoustic surface) is to be reduced by the 80 mm height of the luminaire.



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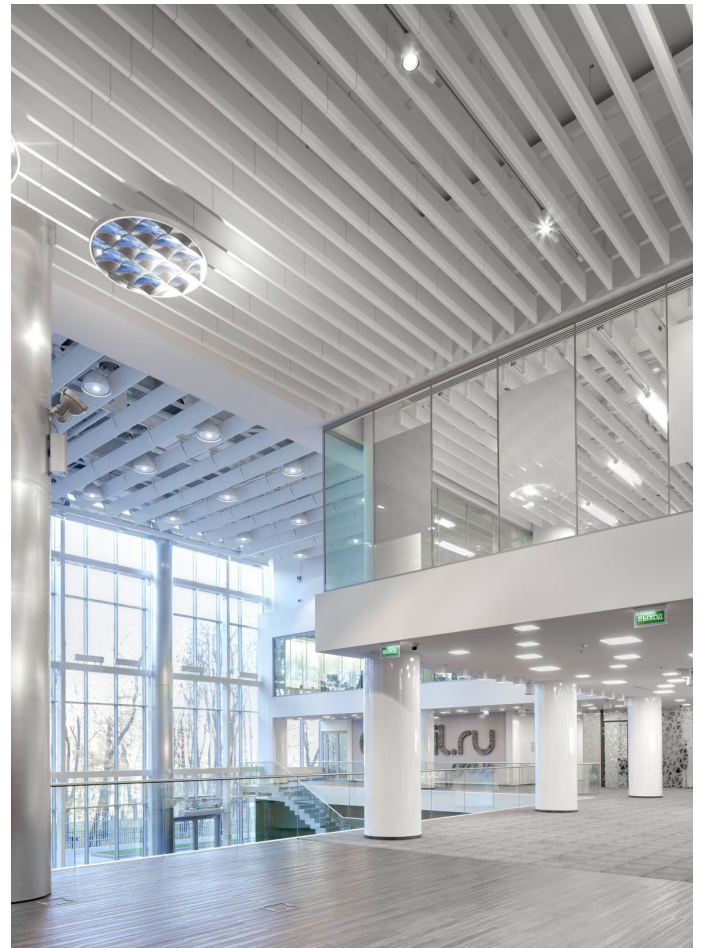
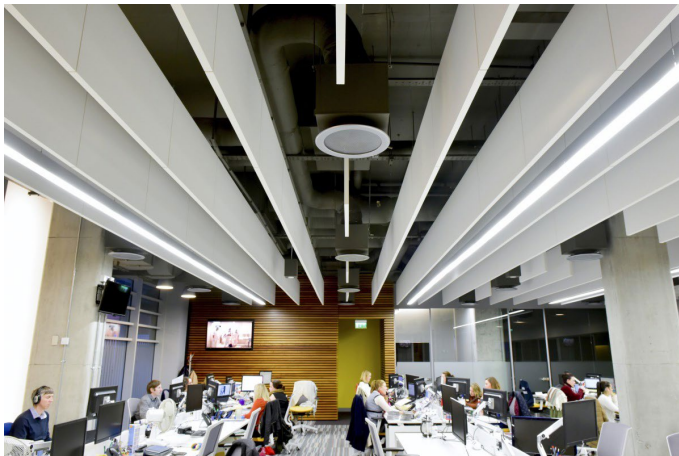


BAFFELS WITH INTEGRATED DIRECT/INDIRECT LIGHTING  
FEATURES | PICTURES



### Features

- Perfect homogeneous light spread without dark zones, even if several LED modules are strung together
- Direct and/or indirect lighting
- The acoustic ceiling panels are dimensionally stable, tested at a constant relative humidity of up to 70 % at 25 °C according to DIN EN 13964.
- The acoustic ceiling panels are also available in a technical version for particularly hot and humid environmental conditions
- Fire safety DIN EN 13501-1, class A2-s 1, d0  
Panel non-flammable according to DIN EN ISO 1182
- Easy to disassemble
- Fully recyclable
- Row arrangements are possible as a combination of standard lengths (e.g. 1200 + 1800 + 1200) either with end caps between the luminaires or without end caps as a continuous light band
- Indoor climate – Certificates/labels
  - Finnish emission classification M1
  - French VOC- label A+
  - Swedish Asthma and Allergy Association
  - Danish Indoor Climate Certificate DIM
  - California Emission Regulation, CDPH
  - Danish indoor climate certificate DIM and recommended by the Swedish Asthma and Allergy Association



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### SIZES AND MOUNTING



Baffle with brace



Baffle mounting with brace



Baffle with hook

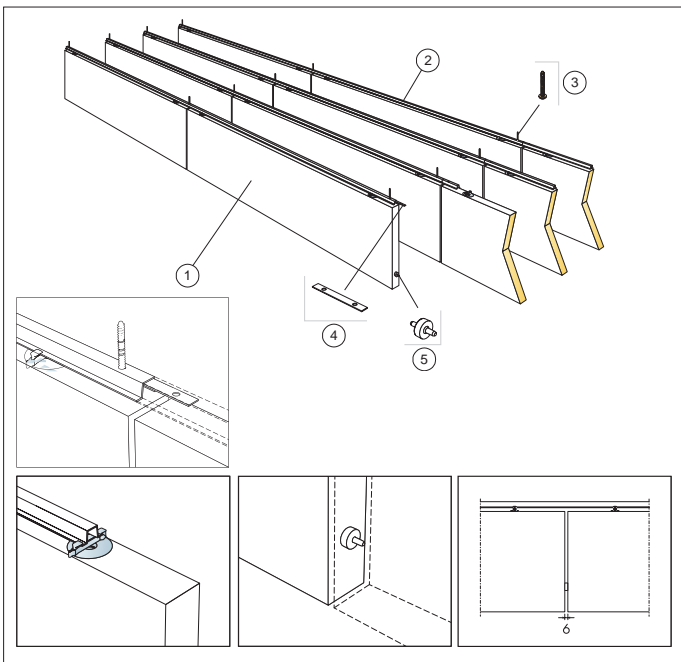


Baffle mounting with hook

### SIZES

Dimensions [mm]	1200 x 200	1200 x 300	1200 x 600	1800 x 200	1800 x 300	1800 x 600
Special fixture	yes	yes	yes	yes	yes	yes
Thickness [d]	40	40	40	40	40	40
Mounting draft	M-1, M-2	M-1, M-2	M-1, M-2	M-1, M-2	M-1, M-2	M-1, M-2

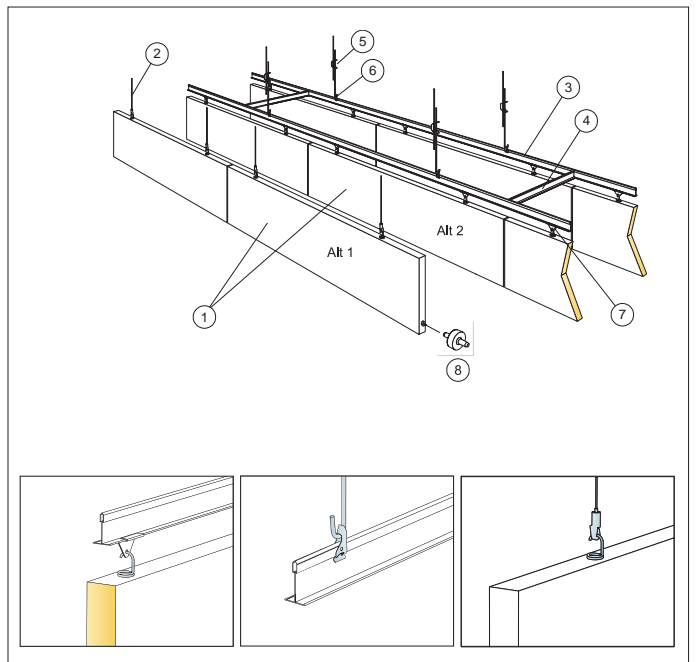
### M-1



### MATERIAL SPEZIFICATION (WITHOUT OFF-CUT)

Dimensions [mm]	1200 x ...	1800 x ...
1 Baffle/brace, row spacing 300 mm	2.8/m <sup>2</sup>	1.9/m <sup>2</sup>
2 Baffle profile, row spacing 300 mm	3.3m/m <sup>2</sup>	3.3m/m <sup>2</sup>
3 Officially approved fixings, max. mounting distance 1200 mm	2.8/m <sup>2</sup>	2.8/m <sup>2</sup>
4 Profile connector, max. distance 2400 mm	1.4/m <sup>2</sup>	1.4/m <sup>2</sup>
5 Guide pins, axial dimension 1200/1800 mm	2.8/m <sup>2</sup>	1.9/m <sup>2</sup>

### M-2



### MATERIAL SPEZIFICATION (WITHOUT OFF-CUT)

Dimensions [mm]	1200 x ...	1800 x ...
1 Baffle/hook, row spacing 600 mm	1.4/m <sup>2</sup>	0.9/m <sup>2</sup>
2 Adjustable wire suspension (Alt 1)	2/Panel	2/Panel
3 Main runner, axial dim. 600 mm (Alt 2)	1.7/m <sup>2</sup>	1.7/m <sup>2</sup>
4 Cross tee, L=600, ax. dim. 1800 mm (Alt 2)	0.6/m <sup>2</sup>	0.6/m <sup>2</sup>
5 Adj. hanger (Alt 2), max. mount. dist. 1200 mm	1.4/m <sup>2</sup>	1.4/m <sup>2</sup>
6 Suspension clip	1.4/m <sup>2</sup>	1.4/m <sup>2</sup>
7 Baffle clip	2.8/m <sup>2</sup>	2.8/m <sup>2</sup>
8 Guide pins, axial dimension 1200/1800 mm	2.8/m <sup>2</sup>	2.8/m <sup>2</sup>

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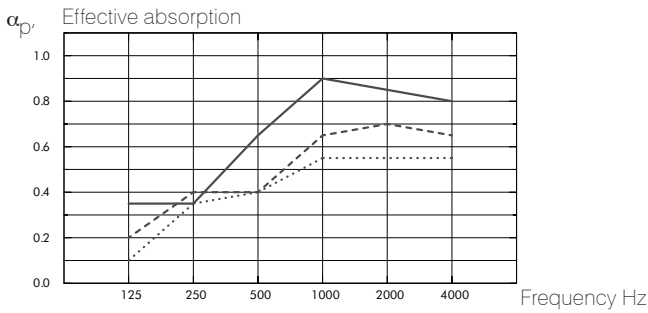
#### SOUND ABSORPTION



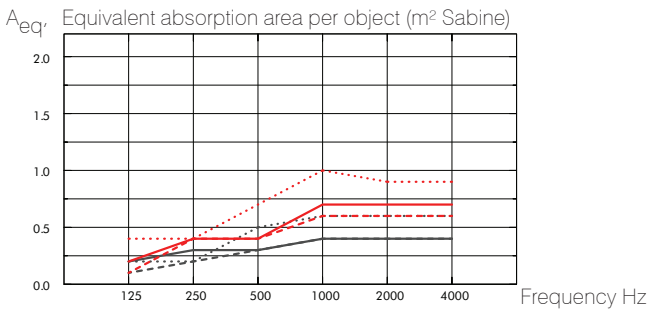
#### SOUND ABSORPTION

Test results according to DIN EN ISO 354:2003 Attention: shown test results are not comparable to those older versions of this standard due to different test methods. Evaluation ac-

ording to DIN EN ISO 11654, Single rating NRC (Noise Reduction Coefficient) and SAA (Sound Absorption Average) according to ASTM C 423.



- Baffle 1200/1800 x 200, distance 600 mm, directly mounted
  - - - Baffle 1200/1800 x 300, distance 600 mm, directly mounted
  - ... Baffle 1200/1800 x 600, distance 600 mm, directly mounted
- o.d.s = tCh = total construction height



- Baffle 1200 x 200
  - - - Baffle 1200 x 300
  - ... Baffle 1200 x 600
  - Baffle 1800 x 200
  - - - Baffle 1800 x 300
  - ... Baffle 1800 x 600
- o.d.s = tCh = total construction height

	d [mm]	tCh [mm]	$\alpha_p$ Effective absorption						$\alpha_w$
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
c600	40	200	0.10	0.35	0.40	0.55	0.55	0.55	0.50
c600	40	300	0.20	0.40	0.40	0.65	0.70	0.65	0.50
c600	40	600	0.35	0.35	0.65	0.90	0.85	0.80	0.65

	d [mm]	tCh [mm]	$\alpha_{eq}$ Equivalent absorption area per object (m <sup>2</sup> Sabine)					
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
1200 x 200   c600	40	200	0.10	0.20	0.30	0.40	0.40	0.40
1200 x 300   c600	40	300	0.20	0.30	0.30	0.40	0.40	0.40
1200 x 600   c600	40	600	0.20	0.20	0.50	0.60	0.60	0.60
1800 x 200   c600	40	200	0.10	0.40	0.40	0.60	0.60	0.60
1800 x 300   c600	40	300	0.20	0.40	0.40	0.70	0.70	0.70
1800 x 600   c600	40	600	0.40	0.40	0.70	1.00	0.90	0.90

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# LED-LINARGO

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PICTURES



FILIGREE WIRE SUSPENSION



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#### GENERAL TECHNICAL SPECIFICATIONS AND TECHNICAL DRAWINGS



<b>DIMENSIONS [W X H]</b>	Baffle 42 x 200/300/600 mm Length 1194/1794 mm Special lengths upon request LED grid 140 mm, row installation possible	<b>CONTROL INTERFACE</b>	DALI DEVICE Type 6, DSI, switch DIM with memory function, corridorFUNCTION
<b>POWER CONSUMPTION</b>	Max. 38 W/m	<b>IP RATING</b>	IP40
<b>LUMINOUS FLUX</b>	Approx. 144 lm/W   840 or 830	<b>LUMINAIRE HOUSING</b>	Aluminium RAL powder-coated PMMA sheet, satinised
<b>LIGHT BEAM ANGLE</b>	120° diffuse PMMA cover	<b>MOUNTING</b>	Stainless steel cable Length 2.0 m (standard)
<b>SERVICE LIFE</b>	LED + EVG 50,000 hours at 70% of mean luminous flux	<b>CONVERTER</b>	Overload protection Overtemperature protection Short-circuit protection Tridonic LCA 75W or LCA 100W units + type accord. to luminaire length
<b>COLOUR TEMPERATURE</b>	White   3,000/4,000 Kelvin	<b>SUPPLY LINE</b>	5 x 1.5 mm translucent with 5-pole Wieland plug connection
<b>CRI</b>	CRI > 85 Narrow colour tolerance MacAdam Step 3	<b>OPTIONAL</b>	Row arrangement as a combination of standard lengths possible in two variants: Variant 1: with end caps between the luminaires Variant 2: without end caps as continuous light band
<b>NORM/PERFORMANCE</b>	UGR < 19   L65 < 1,500 cd/m <sup>2</sup> according to EN 12464-1: 2011		

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