

Spectral[®]

Acoustic range



Blade Light and acoustic baffles



The acoustic Blade range from Spectral combines a highly efficient LED luminaire, called 'LightBaffle', with a vertical acoustic panel system manufactured by GfAG, called 'AcousticBaffle' for applications such as the modern office, education buildings or any building with concrete ceilings.

Blade allows the designer to specify single light bodies or continuous linear lines.



Blade for single light applications

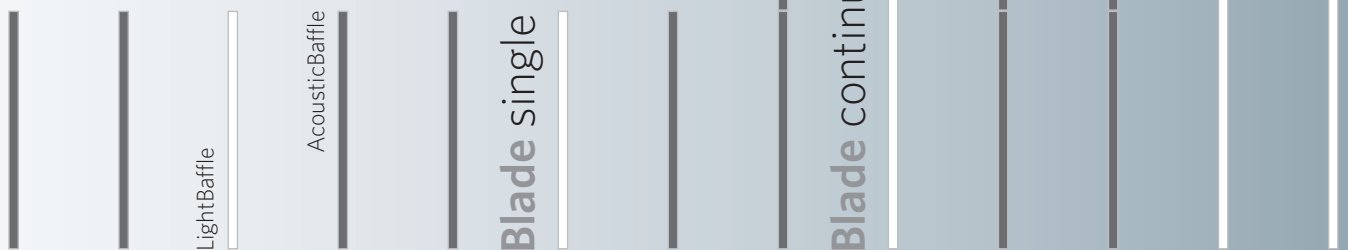


Blade for continuous light lines

A perfect partnership.

Combining an unobtrusive LED lighting system with acoustic ceiling baffles consolidates the design into a harmonious detail. The suspended vertical blades provide particularly effective acoustic management, while allowing heat to circulate freely into the buildings concrete structure.

The distances between depend on the desired light levels and acoustic suppression. We can calculate this to help you realise your design.

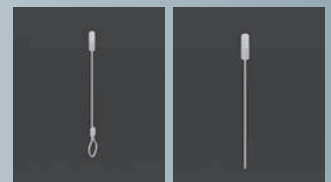
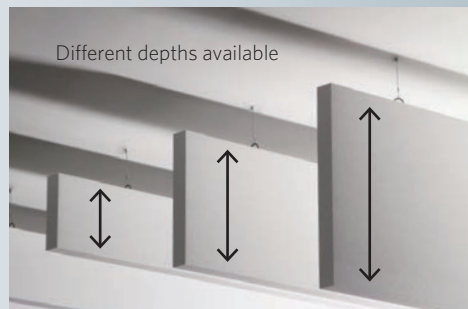




The Spectral Blade system is a unique flexible system that combines the benefits of vertical acoustic baffles with a LED light system of exactly the same dimensions. Despite being made in different materials the acoustic and light baffles blend with one another (being of exactly the same dimensions) to create an integrated look.

The acoustic baffles are available in depths of 100 mm increments up to 600 mm deep. Lengths from 400 mm to 2400 mm are available although the light baffles come in lengths to suit the LED components at 600 / 900 / 1200 / 1500 / 1800 mm.

The acoustic baffles are suspended on either fixed or adjustable wires and as standard supplied with fixed stainless steel suspension wires that suspend the baffles 100 mm off the ceiling. For the baffles pig tail springs are supplied separately to be screwed into the top of the baffle without tools. The Light baffle has built in toggle adjusters and supplied with 1.5 metre stainless steel wires.



Acoustic baffle: Fixed wire or adjustable wire

The LED light baffles are available as an HE or HO variant.

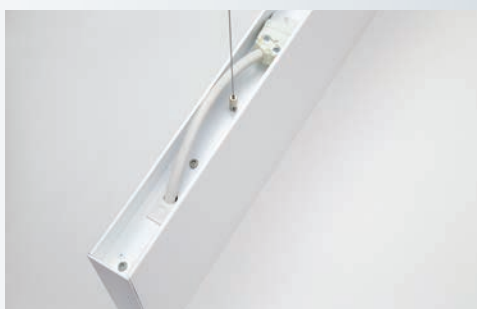
The LED modules with a 3000 K or 4000 K colour temperature are integrated in the baffle and covered with an opal satinised or microprismatic panel.

The luminaires are fitted with a 1.5 m long supply cable.

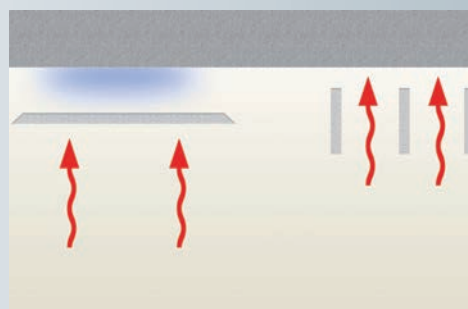
The light baffles can be supplied in either single unit or continuous; where continuous is specified they require joiner plates and end caps to suit the design.

If supplied as a single unit then they come supplied with end caps. Both acoustic and light baffle are available in any RAL colour for an extra cost option.

Light baffle: 5way plug and socket system built into top chamber



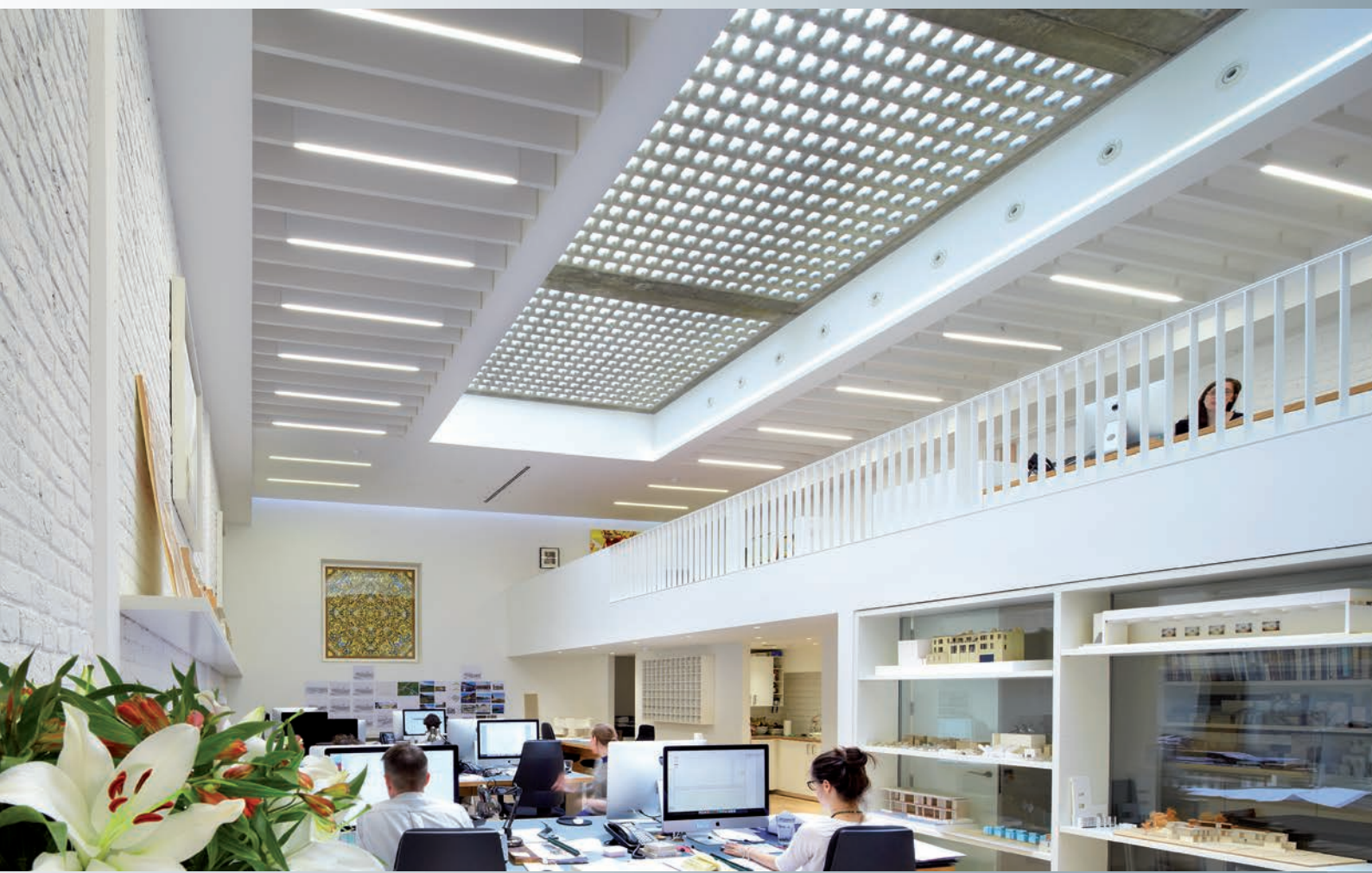
Blade's vertical panel arrangement allows thermal convection direct passage to the concrete soffit.

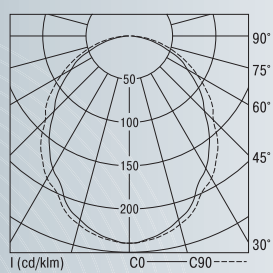


The Spectral Blade system is ideally suited for use in buildings with a thermally activated ceiling.

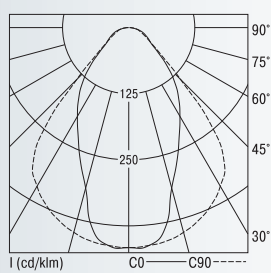
The vertical baffle element arrangement results in an anticipated cooling output reduction of only around 3%, and enables a clear view of the ceiling as well as physical access.





Blade Light baffle LED

Design Opal



Design MPS



Product Specification data

Light distribution:	Direct or direct-indirect
Lamp type:	RIDI LED Lightmodule
Standard colour:	White (similar to RAL 9003)
Special colours:	Any RAL or NCS-Code available to order
Diffuser:	Opal, satin finish (transmission 72%) micro prismatic (MPS)
CRI:	> 80
Colour (Kelvin):	3000 K, 4000 K
Mounting:	Pendant mounting (stainless steel wires)



Lumen output/Power:
(Design MPS, 4000 K)

Length	HE-Variant	HO-Variant
600 mm	1030 lm, 10 W	1380 lm, 15 W
900 mm	1520 lm, 16 W	2070 lm, 22 W
<i>Most common length:</i> 1200 mm	2000 lm, 22 W	2760 lm, 30 W
1500 mm	2550 lm, 26 W	3450 lm, 37 W
1800 mm	3030 lm, 32 W	4130 lm, 45 W

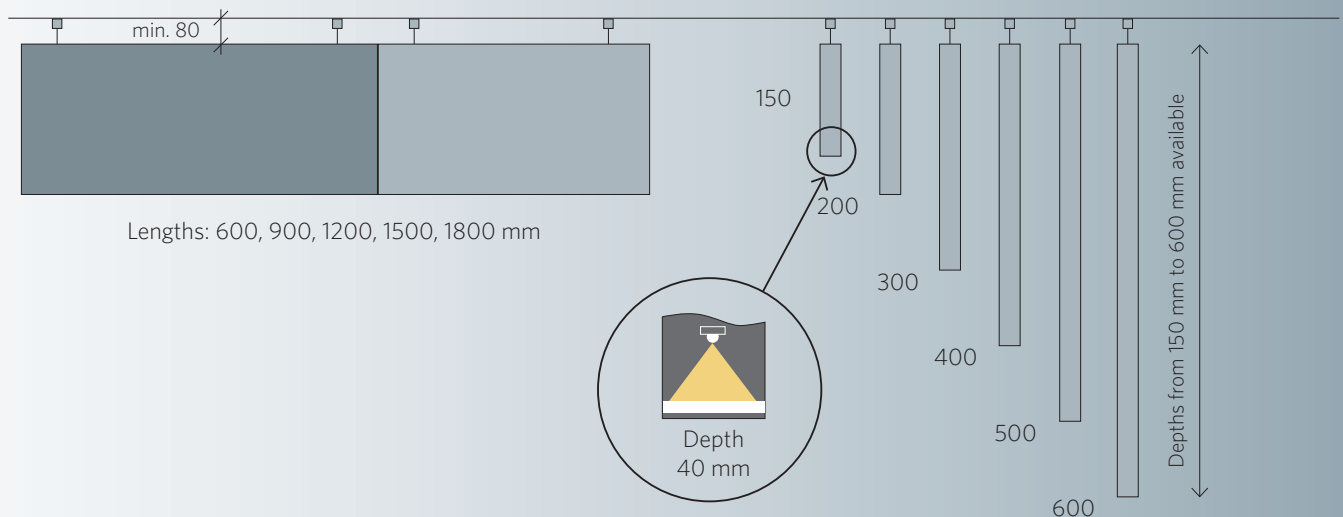
Weight:	App. 6.8 kg (dimensions 1200 x 150 x 40 mm)
Protection class:	I
Electrical version:	Electronic converter for LED, switchable or dimmable DALI
Electrical connection:	Blade continuous with integral Wieland plug and socket system GST-Mini Blade single with mains cable and connector block

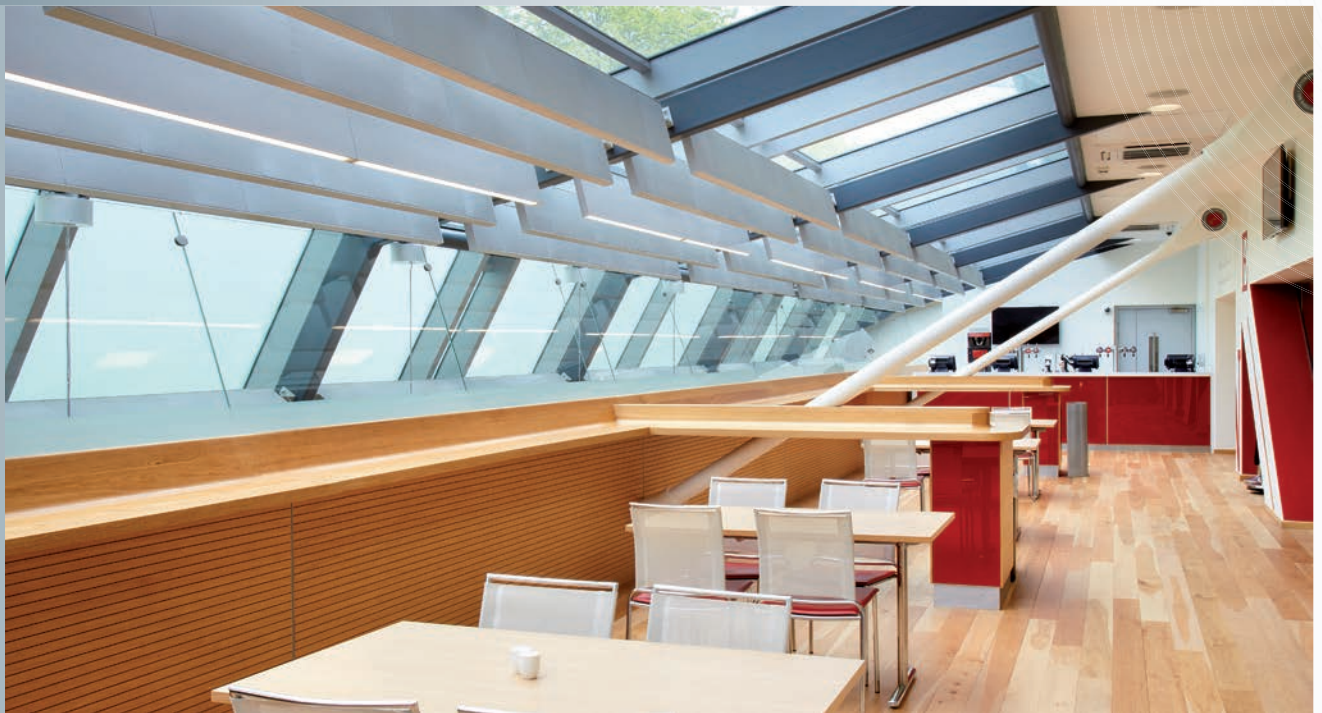
Note: For linear lines up to 24 1200 mm long fittings can be mounted in a line.
Please note – a 16 amp type B breaker must be used.

Dimension Options:

Lengths: 600 mm, 900 mm, 1200 mm, 1500 mm, 1800 mm
Depths: 150 mm, 200 mm, 300 mm, 400 mm, 500 mm, 600 mm
Width: 40 mm

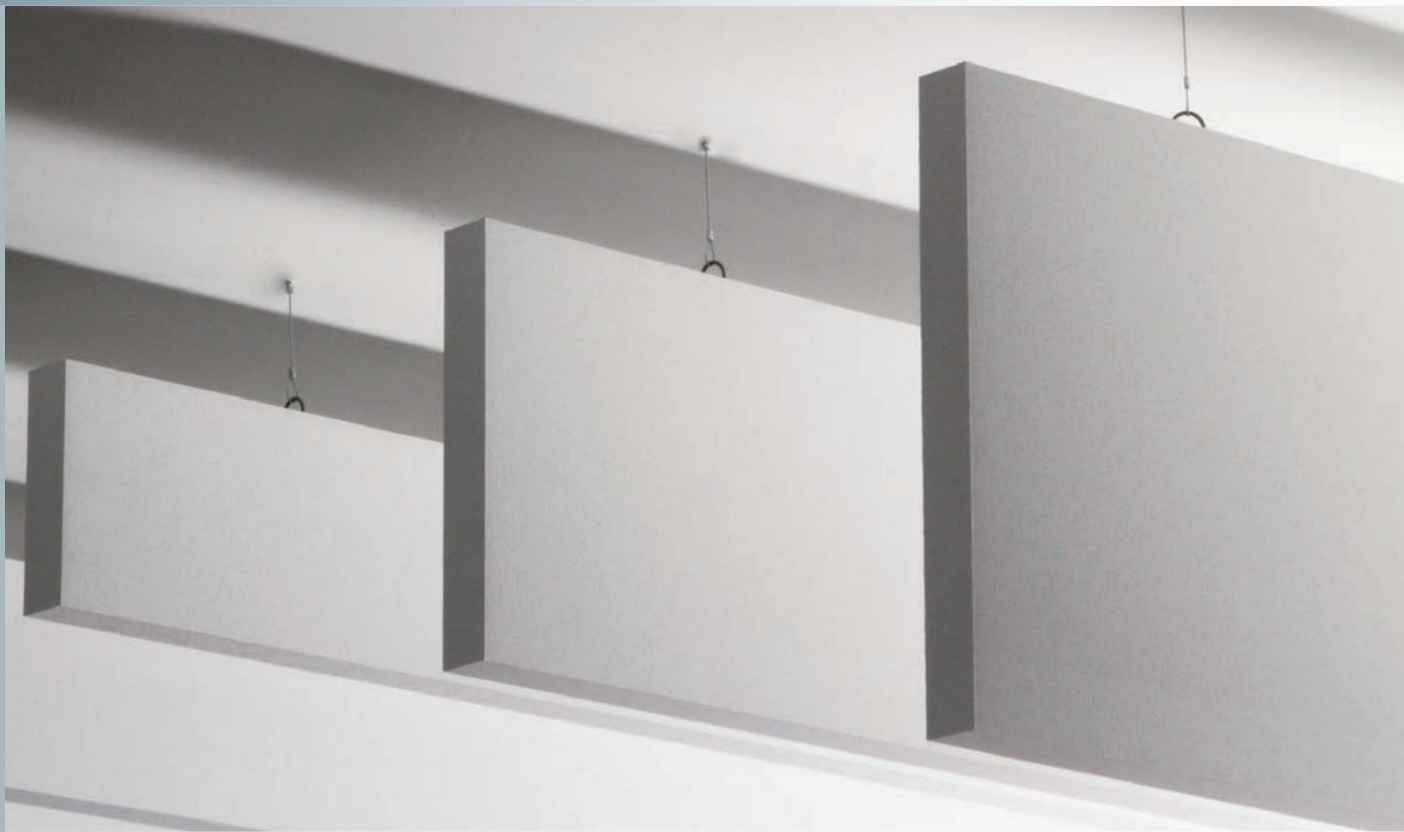
Additional sizes on special request.





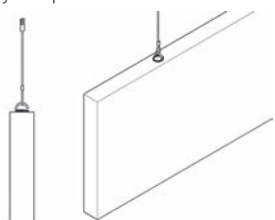


Blade Acoustic baffle by GfAG

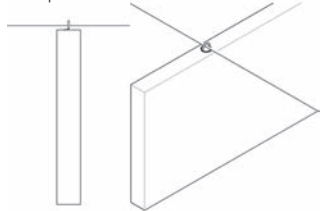


Mounting options

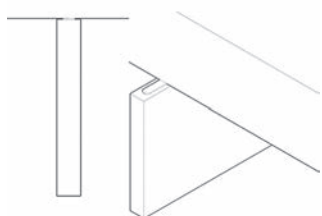
Individually suspended



Freely-suspended



Glued



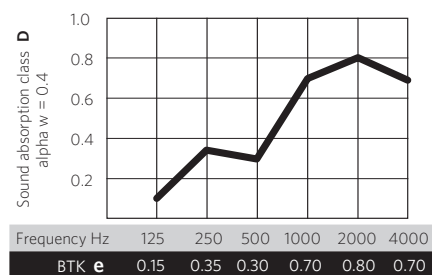
Sound absorption Absorption area in accordance with ISO 354

Baffle **individually suspended**

Baffle depth: 200 mm

Distance between centres: 300 mm

Clearance above baffle: 100 mm

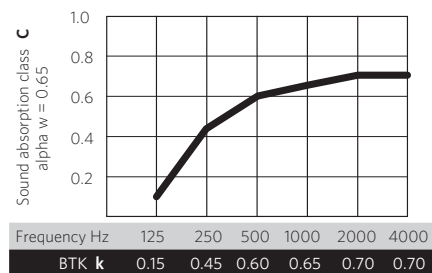


Baffle **glued**

Baffle depth: 100 mm

Distance between centres: 140 mm

Clearance above baffle: 0 mm



Product Specification data

Mounting options:

Individually suspended: Baffle panels individually suspended from wire cables.
(Minimum hanging height 70 mm)

Freely-suspended: Baffle panels suspended on horizontal wire cable systems
(Minimum hanging height 80 mm)

Glued: Baffle panels glued directly to the ceiling

Fire classification: A2-s1,d0 in accordance with DIN EN 13501-1

Standard colour: White (similar to RAL 9003)

Special colours: Any RAL or NCS-Code available to order

Edge designs: Sharp borders, paint-coated all around

Cleaning: Moist wiping

Cooling capacity reduction: $\leq 3,1\%$

Dismantling: Toolless

Room climate: Suitable for use in ISO Class 6 rooms (in accordance with DIN EN ISO 14644-1)

Moisture resistance: Dimensionally stable up to relative humidity of 95 % at 30 °C
(in accordance with DIN EN ISO 4611)

Weight: App. 4 kg/m² absorption surface

Variant types available: Standard baffle, frameless; Ball impact-proof baffle with aluminium frame

Testing certificates: for acoustic measurements, ball impact-resistance, linear characteristic curves

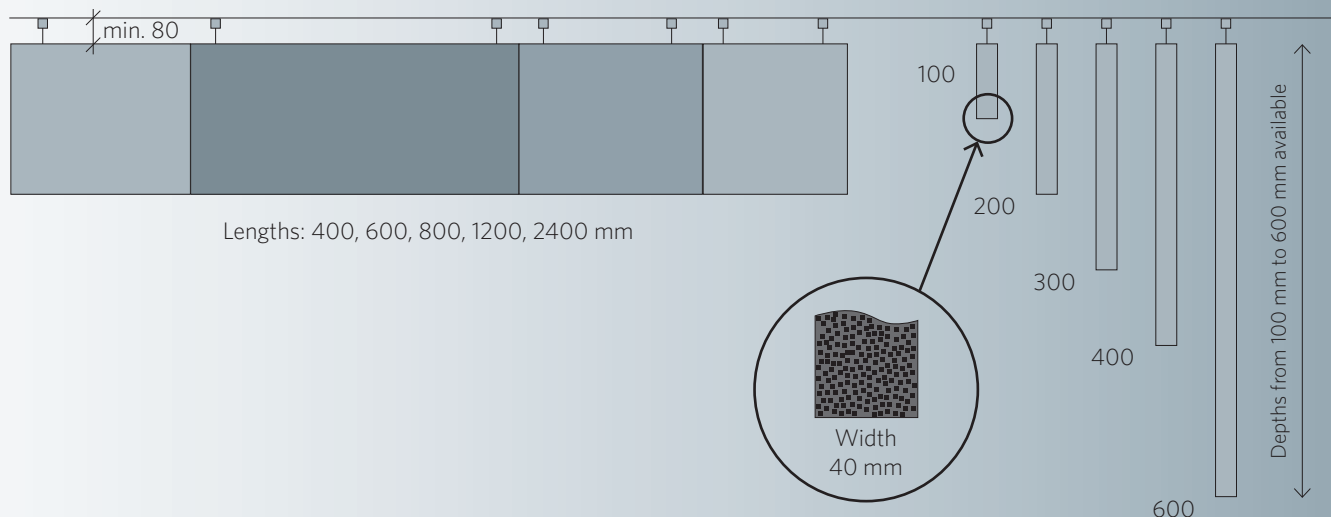
Dimension Options:

Lengths: 400 mm, 600 mm, 800 mm, 1200 mm, 2400 mm

Depths: 100 mm, 200 mm, 300 mm, 400 mm, 600 mm

Width: 40 mm

Additional sizes on special request.



14 Other acoustic lighting solutions



Project-specific solution
with Spectral **Stora**



Spectral **Blade** acoustic baffles
combined with linear lighting systems

Ceiling sail with integrated lighting



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