Lünen Linear

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60% RECYCLED ACOUSTIC CONTENT

5 YEAR WARRANTY

BESPOKE AVAILABLE

Code	Type	Length (mm)	Width (mm)	Hight (mm)	Flex
LNENB/L/1165/OSD/4K/*	Suspended, Opal, DALI	1445	285	300	Black
LNENB/L/1450/OSD/4K/*	Suspended, Opal, DALI	1710	285	300	Black
LNENB/L/1730/OSD/4K/*	Suspended, Opal, DALI	2010	285	300	Black
LNENB/L/2015/OSD/4K/*	Suspended, Opal, DALI	2295	285	300	Black

*** Please specify colour

Carbon Neutral⁺ Organisation

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Construction

- Extruded aluminium profile
- Clip-in diffuser
- European brand control gear
- Made in the UK

Features

- High efficiency LED boards
- Range of length options
- Wide-beam light distribution

Applications

- Commercial and Business Areas
- Public buildings
- Housing
- Offices
- Hotels and Restaurants
- Arts and Culture spaces

Benefits

- Custom-fit options
- Contemporary style
- Energy efficient solution
- 5 Year warranty

Optical Options

Code	Description
/OS	Opal (Standard)
/HXP	Low Glare

CCT Options

Code	Description
4K8	4000K (Standard)
3K8	3000K

For 3000K version, replace '4K8' in part number with '3K8'

Control Options

Code	Description
D	DALI
S	Switchdim control

For DALI control, replace 'F' in part number with 'D' for SwitchDim replace 'F' with 'S'

Finish Options

Code	Description	Code	Description
RR	Crimson Red	SDB	Midnight blue
RRF	Crimson Red Fleck	MT	Plantation teal
OO	Sunset Orange	PTF	Marble teal
OOF	Sunset Orange Fleck	DBG	Gunsmoke blue grey
CY	Corn Yellow	SPF	Plum purple fleck
CYF	Corn Yellow Fleck	GGF	Army green
WG	Pistactio Green	OBF	Almond beige
WGF	Pistactio Green Fleck	LMF	Mustard yellow
KBF	Steel Blue Fleck	FP	Salmon pink
JBF	Denim Blue Fleck		
WB	Vanilla Beige		
WBF	Vanilla Beige Fleck		
DW	Linen White		
SG	Ash Grey		
HG	Strom Grey		
SKG	Gunmetal Grey		
RB	Charcoal Black		

Mounting Options

Code	Description
P1/SUS/1.25M	Suspended 1.25M
P1/SUS/3.0M	Suspended 3M
P1/SUS/5.0M	Suspended 5M
	Surface Mounted (Standard)

For suspended specify the codes as required.

Emergency Options

Code	Description
/EM	3 hour maintained, manual test
/ED	3 hour maintained, DALI / Self Test

For emergency version, add onto end of part number as required

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Crimson Red	Crimson Red Fleck	Sunset Orange	Sunset Orange Fleck	Corn Yellow	Corn Yellow Fleck
Pistactio Green	Pistactio Green Fleck	Steel Blue	Denim Blue	Vanilla Beige	Vanilla Beige Fleck
Linen White	Ash Grey	Strom Grey	Gunmetal Grey	Charcoal Grey	Midnight Blue
Plantation Teal	Marble Teal Fleck	Gunsmoke Blue Grey Fleck	Plum Purpel Fleck	Army Green Fleck	Almond Beige Fleck
Mustard Yellow Fleck	Salmon Pink				

Material Details
Synergy is proud to use recycled PET (Polyethylene Terephthalate) in our acoustic lighting. PET is a form of polyester, which is usually used in plastic bottles for drinks, detergent, salad dressings and the like.

Composition – 100% PET (Polyethylene Terephthalate) with a 60% recycled content

Environmental - Acoustic material has a 60% recycled content, and is recyclable.

Standards –   Fire specification - EN13501-1 Class B–s1,d0

Acoustic performance – EN ISO 354:2003

Non-hazardous – no formaldehyde binders are used in the manufacturing process.

Lifetime – PET is not affected by moisture, mould or mildew and will not rot or deteriorate under normal conditions.
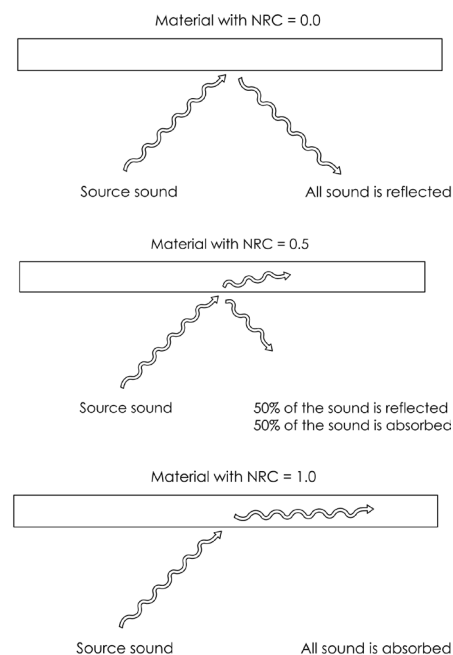
Frequencies of sound
There are two aspects to sound which dictate how well we can hear it, the first is the volume, or loudness, which is measured in decibels. The second is the frequency, or whether it is a low rumbling sound, or a high-pitched squeak. Humans can detect sounds in the range of 20Hz to 20,000Hz.

• Examples of sounds and their frequencies:
  • Tuba ~ 32Hz
  • A truck driving past ~ 250Hz
  • Male baritone voice ~ 400Hz
  • Typical vocal range ~500-3000Hz

Noise Reduction Coefficient
Acoustics is quite a complex subject. In essence, the NRC (Noise Reduction Coefficient) is a rating in the range from 0 to 1. If a material has a rating of 0, then the material absorbs no sound, and all sound is reflected back into the space. If a material has a rating of 1 then the material absorbs all the reflected back into the room.

Material with NRC = 0.0

Source sound   All sound is reflected

Material with NRC = 0.5

Source sound   50% of the sound is reflected
                      50% of the sound is absorbed

Material with NRC = 1.0

Source sound   All sound is absorbed