

**siegen** RAFT

**[ekko]**



Code	Type	Length	Width	Height	Accepts Luminaire
<b>SGNP/1200x1200/***</b>	Plain	1200	1200	24	N/A
<b>SGNP/1200x2400/***</b>	Plain	1200	2400	24	N/A

- \*\*\* Please specify colour
- Range of lights available from the Synergy N1 range - to be specified separately
- Bespoke sizes available on request



## Construction

- Made in the UK
- PET 60% recycled content

## 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
- 5 Year warranty

## Mounting Options

Code	Description
<b>P1/SUS/1.25M</b>	Suspended 1.25M
<b>P1/SUS/3.0M</b>	Suspended 3M
<b>P1/SUS/5.0M</b>	Suspended 5M

For suspended specify the codes as required.

## Finish Options

Code	Description
<b>RR</b>	Rosella Red
<b>RRF</b>	Rosella Red Fleck
<b>OO</b>	Oriole Orange
<b>OOF</b>	Oriole Orange Fleck
<b>CY</b>	Canary Yellow
<b>CYF</b>	Canary Yellow Fleck
<b>WG</b>	Woodpecker Green
<b>WGF</b>	Woodpecker Green Fleck
<b>KBF</b>	Kingfisher Blue Fleck
<b>JBF</b>	Jacarina Blue Fleck
<b>WB</b>	Wheatear Beige
<b>WBF</b>	Wheatear Beige Fleck
<b>DW</b>	Dove White
<b>SG</b>	Sanderling Grey
<b>HG</b>	Heron Grey
<b>SKG</b>	Skua Grey
<b>RB</b>	Raven Black



## 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.

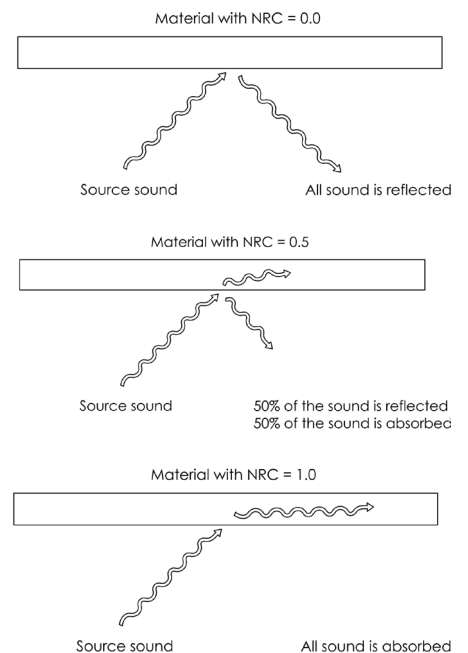
## Frequencies of sound

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.



HEAD OFFICE: Unit 4, Charlton Mead Lane, Hoddesdon, Hertfordshire EN11 0DJ  
 SHOWROOM: 121-131 Rosebery Ave, London EC1R 4RF  
 SHOWROOM: 1 New York St, Manchester M1 4HD

01992 445828



Carbon  
Neutral  
Organisation