



**Fritzlar** Infinity

**[ekko]**



Code	Type	Length (mm)	Height (mm)
FRIN/***	Acoustic wall tile	312	200

\*\*\* Please specify colour



## Construction

- PET felt
- Made in the UK

## Features

- 26 colour options
- Custom options
- 60% recycled material

## 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

## Finish Options

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

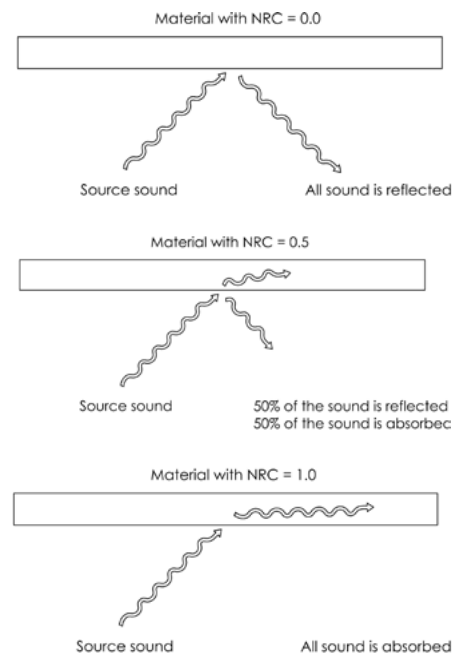
## Frequencies of sound

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.



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Carbon  
 Neutral  
 Organisation