



**Halver** Square

**[ekko]**

# Halver Square

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Code	Type	Length (mm)	Height (mm)
<b>VELS/***</b>	Square acoustic wall tile	240	240

\*\*\* 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
RR	Crimson Red
RRF	Crimson Red Fleck
OO	Sunset Orange
OOF	Sunset Orange Fleck
CY	Corn Yellow
CYF	Corn Yellow Fleck
WG	Pistachio Green
WGF	Pistachio Green Fleck
KBF	Steel Blue Fleck
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
SDB	Midnight blue
MT	Plantation teal
PTF	Marble teal
DBG	Gunsmoke blue grey
SPF	Plum purple fleck
GGF	Army green
OBF	Almond beige
LMF	Mustard yellow
FP	Salmon pink

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## 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

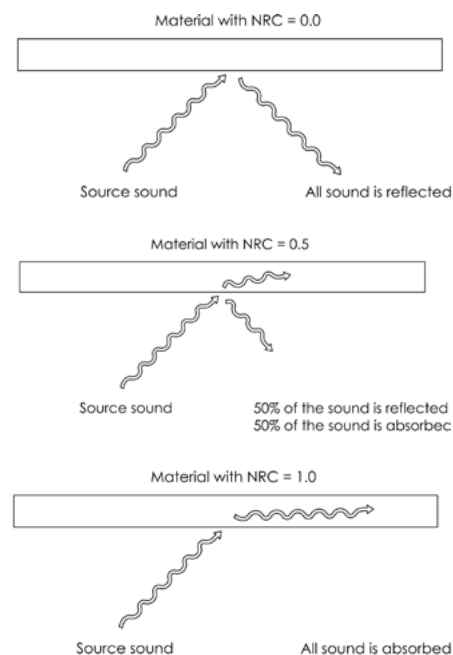
There are two aspects to sound which dictate how well we can hear it, the first is the volume, or loudness, which is measured in decibels. The second is the frequency, or whether it is a low rumbling sound, or a high-pitched squeak. Humans can detect sounds in the range of 20Hz to 20,000Hz.

• 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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