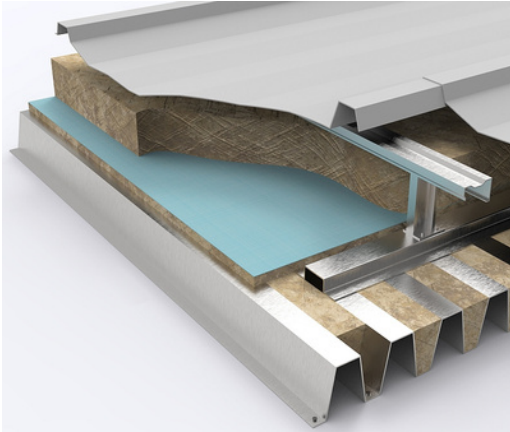


# TRAPEZOIDAL ACOUSTIC ROOF INFILLS



## DESCRIPTION:

CCL Acoustic Infills consist of rigid slabs of non-combustible mineral wool that have been factory cut to suit the upper profile of structural metal roof decks.

## PURPOSE:

CCL Acoustic Infills are designed to prevent reverberation and improve the acoustic environment in buildings with large areas of hard internal surfaces such as leisure centres, school sports halls and swimming pools.

## BENEFITS:

- Supplied to suit any profiled roofing sheet
- Simple to install
- Excellent acoustic absorption
- Water repellent
- Maintenance free

## Specification



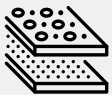
### Dimensions

CCL Acoustic Infills are normally supplied 1200mm long and are factory cut to fit the relevant roof profile.

Shorter lengths are available upon request.

The product can be supplied un-faced although where it is used with perforated metal decks, it is normally faced on the lower three sides with black or white glass tissue.

Alternatively, it can be faced on all four sides to further decrease the risk of fibre migration.



### Density:

CCL Acoustic Infills are available in the following grades;

- 45kg density mineral wool core
- 60kg density mineral wool core
- 100kg density mineral wool core



### Standards & Performance:

The mineral wool slabs used in the production of CCL Acoustic Infills achieves a fire classification of Euroclass A1 as defined in BS EN 13501 - 1.

The use of CCL Acoustic Infills can contribute towards the satisfaction of a requirement for a ceiling with Class C acoustic absorption.

See Approved Document E and Building Bulletin 93 (The Acoustic Design of Schools) for guidance.

## Handling and Installation:



CCL Acoustic Infills are normally supplied on polythene wrapped pallets. Protective weather hoods are included where requested.

The infills are installed directly into the upper trough of the profiled roofing sheet. All joints should be tightly butted and, where necessary, lengths can be trimmed using a sharp knife or a finely serrated saw.



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# TRAPEZOIDAL ACOUSTIC ROOF INFILLS



## Dimension/Density

Concept Trapezoidal Acoustic Infills - White/Black Tissue Faced			Density Range		
Profile	Profile Dimensions	No Per Pallet	45kg/m <sup>3</sup>	60kg/m <sup>3</sup>	100kg/m <sup>3</sup>
D32	32mm x (24mm x 72mm) x 1.2mtr	1430	✗	✗	✓
TR35	35mm x (34mm x 89mm) x 1.2mtr	1300	✗	✗	✓
D35	35mm x (34mm x 75mm) x 1.2mtr	1300	✗	✗	✓
D46	46mm x (67mm x 120mm) x 1.2mtr	600	✗	✓	✓
D60	60mm x (64mm x 110mm) x 1.2mtr	480	✓	✓	✓
D100	100mm x (63mm x 124mm) x 1.2mtr	240	✓	✓	✓
D135	135mm x (43mm x 165mm) x 1.2mtr	150	✓	✓	✓
D137	137mm x (43mm x 166mm) x 1.2mtr	150	✓	✓	✓
D153	153mm x (40mm x 161mm) x 1.2mtr	156	✓	✓	✓
D159	159mm x (38mm x 142mm) x 1.2mtr	156	✓	✓	✓
D200	200mm x (75mm x 170mm) x 1.2mtr	100	✓	✓	✓

Items marked with an ✗ are not generally available due to the product being very poor to handle on site, resulting in high wastage. Other dimensions & Deck Profiles are available upon request.



## Acoustic Absorption

Acoustic Absorption co-efficients - S = Solid Backing - C = Cavity							
Thickness	45Kg/m <sup>3</sup>						
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
25S	0.05	0.25	0.55	0.75	0.9	1.00	0.61
40S	0.14	0.40	0.87	1.00	1.00	1.00	0.82
50S	0.25	0.65	1.05	1.10	1.05	0.95	0.96
75S	0.50	1.05	1.20	1.15	1.10	0.95	1.13
100S	0.80	1.15	1.20	1.15	1.15	1.00	1.16
50C	0.45	0.95	0.80	0.95	0.95	1.00	0.91

Acoustic Absorption co-efficients - S = Solid Backing - C = Cavity							
Thickness	60Kg/m <sup>3</sup>						
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
25S	0.10	0.20	0.65	0.85	1.00	0.90	0.68
40S	0.13	0.49	0.95	1.00	1.00	1.00	0.86
50S	0.25	0.65	1.05	1.10	1.10	0.95	0.98
75S	0.55	1.10	1.20	1.15	1.15	1.05	1.15
50C	0.45	0.90	0.80	0.90	0.95	0.95	0.89

Acoustic Absorption co-efficients - S = Solid Backing - C = Cavity							
Thickness	100Kg/m <sup>3</sup>						
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
25S	0.05	0.30	0.70	0.95	1.05	1.00	0.75
40S	0.12	0.44	0.88	1.00	1.00	1.00	0.83
50S	0.35	0.85	1.10	1.10	1.15	1.10	1.05
75S	0.44	1.00	1.00	1.00	1.00	1.00	1.00
50C	0.65	0.95	0.80	0.90	0.95	1.00	0.90