

# PLAIN, FACED & ENCLOSED ROCK MINERAL WOOL SLAB

CCL

CONCEPT CONVERSIONS LTD

Fire, Acoustic & Thermal Insulation

INTERIOR

Data Sheet 2001 v1.0.3

## Description:

The CCL range of plain, faced & enclosed slabs provide thermal, fire and acoustic insulation solutions for multiple applications including acoustic linings, ceiling systems, timber frames, roof voids & partitioning systems.

Manufactured using non-combustible rock wool slab, manufactured by Rockwool or Knauf, the specified facer material is adhered to one and two sides or totally enclosing the insulation using hot melt (polyolefin based, synthetic resin) adhesive.

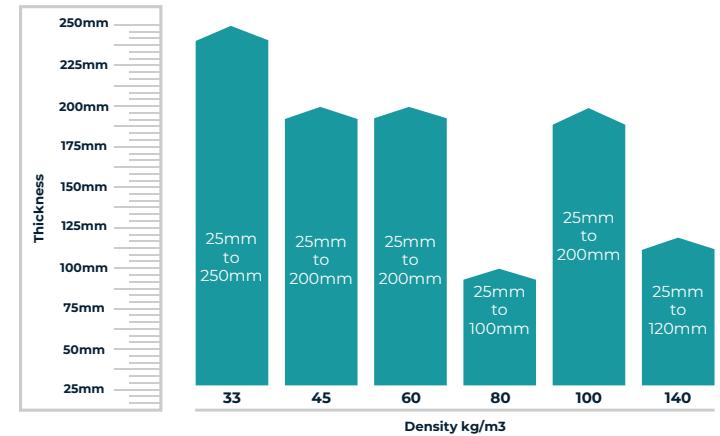


The CCL slab range is available in thicknesses from 8mm to 200mm and in densities from 33 kgm<sup>3</sup> to 140 kgm<sup>3</sup> as standard.

CCL plain and faced slabs are supplied 1200mm x 600mm as standard and are manufactured to the nearest slab with no minimum order. Other slab sizes may be available depending on density / thickness.

## INSULATION COMPONENT PROPERTIES

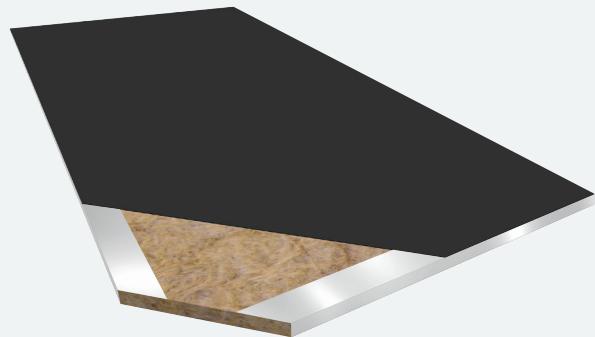
Density (kg/m <sup>3</sup> )	Thermal Conductivity (W/mK)	Reaction to Fire Classification
33	0.037	A1
45	0.035	A1
60	0.034	A1
80	0.034	A1
100	0.034 / 0.036	A1
140	0.034 / 0.038	A1



## FACING COMPONENT PROPERTIES

Density (kg/m <sup>3</sup> )	Reaction to Fire Classification	Thickness / Weight
Reinforced Aluminium Foil	Class 0 to BS476	12—18mu
Black Tissue Fleece	A1 to EN13501	50gsm
White Tissue Fleece	Class 1 to BS476	40gsm
Polythene	N/A (fire retardant available on request)	38mu

CCL faced and enclosed slabs are very often used as part of a system designed to provide a particular sound absorbance or resistance performance. The following chart details the absorption co-efficients for the various densities of insulation offered. These can be used in conjunction with other elements in the system to provide supporting information in regards to acoustic performance.



### EARTHWOOL BUILDING SLAB ABSORPTION CO-EFFICIENTS

**Absorption Co - Efficients - S = Solid Backing  
Rock Mineral Wool Slabs - made with ECOSE™ Technology**

Thickness	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
RS33							
40S	0.19	0.46	0.79	0.92	1.00	1.00	0.80
100S	0.57	1.00	1.00	1.00	1.00	1.00	1.20
RS45							
25S	0.1	0.3	0.58	0.79	0.97	1.00	0.65
75S	0.41	0.93	1.00	1.00	1.00	1.00	1.10
100S	0.71	1.00	1.00	1.00	1.00	1.00	1.20
RS60							
25S	0.08	0.30	0.62	0.84	1.00	1.00	0.65
75S	0.5	1.00	1.00	1.00	1.00	1.00	1.15
RS80							
75S	0.53	1.00	1.00	1.00	1.00	1.00	1.15
RS100							
25S	0.09	0.30	0.75	0.93	1.00	1.00	0.75
50S	0.32	0.91	1.00	1.00	1.00	1.00	1.05
RS140							
50S	0.33	0.82	1.00	1.00	1.00	1.00	1.00

### CUT TO SIZE

CCL manufacture precision cut, mineral wool, strips in a range of densities, thicknesses, lengths and widths. With no minimum order quantity, less dust and damage, the CCL range of factory cut solutions save time, money and improve the speed of application on site or factory assembly. Rock mineral wool insulation finished sizes are manufactured to the customers specification in thickness, size and density. Cut strips are supplied boxed, bagged, and palletised. There is no minimum order quantity for the CTS range of products.

