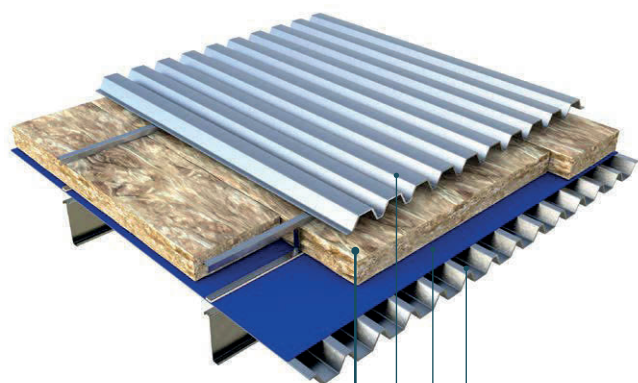


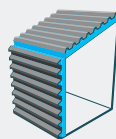


FactoryClad Roll 40

Profiled metal outer sheet

Vapour control layer

Perforated metal liner sheet



APPLICATION OVERVIEW

Built-up metal roof systems typically consist of a low profile metal inner liner sheet, separated from an outer, higher profile metal weather sheet and are typically assembled on site.

The cavity between them is filled with a layer of insulation to provide the specified level of thermal performance. As well as thermal performance acoustic performance is also important.

Our Mineral Wool insulation solutions for built-up metal roofs provide excellent levels of sound absorption, reducing the drumming effect of rainwater and improving the overall acoustic performance of the roof.

WHY MINERAL WOOL?

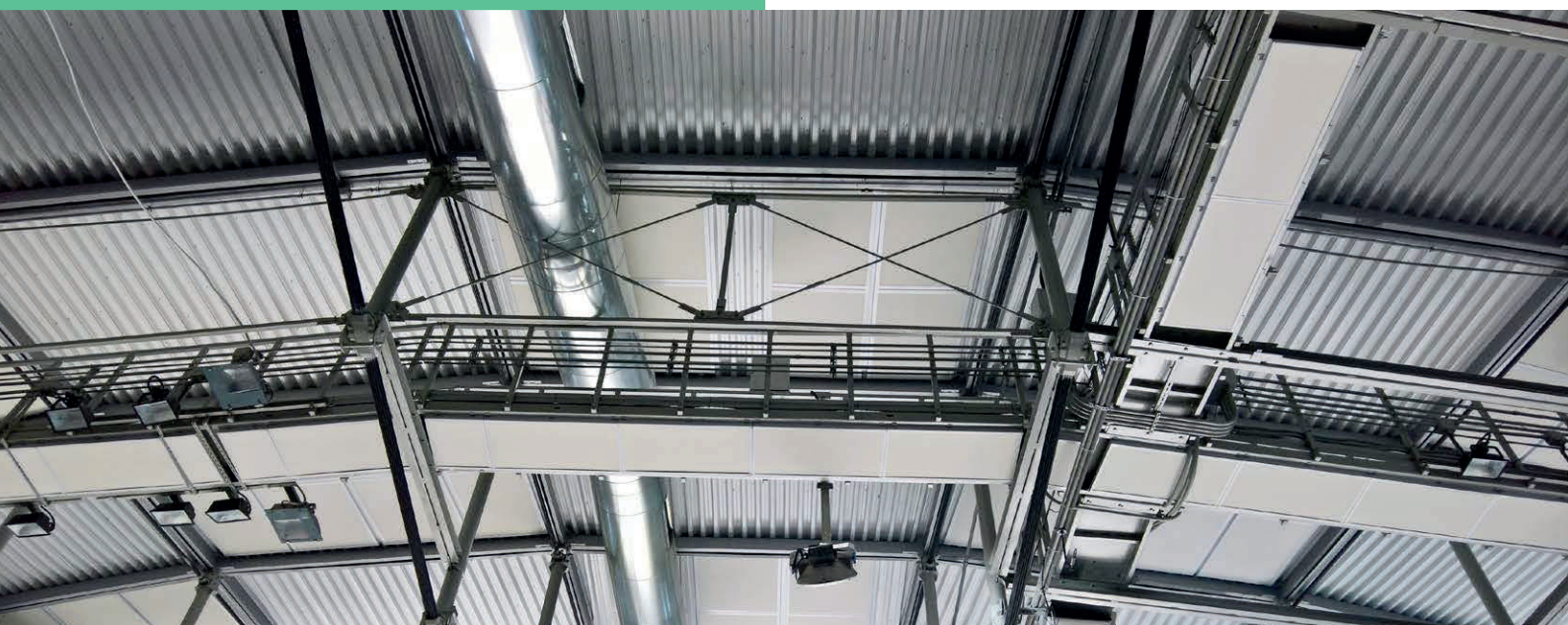
- Mineral Wool provides the best combination of thermal, fire safety and acoustic performance.
- Mineral Wool is easier to install correctly than other insulants such as rigid boards because it adapts to any slight imperfections in the substrate and knits together, eliminating any air gaps. Evidence shows the absence of air gaps is crucial to achieving real performance in the relevant application.

RECOMMENDED PRODUCT

- **FactoryClad Roll 40** (see page 86)

OTHER SUITABLE PRODUCTS

- **FactoryClad Roll 32** (see page 86)



TYPICAL U-VALUES

USING FACTORYCLAD ROLL 40

FactoryClad Roll 40 thickness (mm)	U-value (W/m ² K)
	Rails at 1.20metre spacings
440 (2x220)	0.11
400 (2x200)	0.12
360 (2x180)	0.13
340 (200+140)	0.14
320 (2x160)	0.15
300 (200+100)	0.16
280 (2x140)	0.17
260 (160+100)	0.18
240 (2x120)	0.19
220	0.21
200	0.23
180	0.25

NOTE: Knauf Insulation recommends that the roof system designer / manufacturer is contacted for U-values specific to their systems.

USING FACTORYCLAD ROLL 32

FactoryClad Roll 32 thickness (mm)	U-value (W/m ² K)
	Rails at 1.20metre spacings
160 (2x80)	0.24

NOTE: Knauf Insulation recommends that the roof system designer / manufacturer is contacted for U-values specific to their systems.

These U-values are taken from default values in the BRE U-value calculator using twin-skin metal panel-rail and bracket system as examples only.

To ensure an accurate U-value calculation, the roof or wall manufacturer should be contacted for the U-value specific to the system and associated components being used.