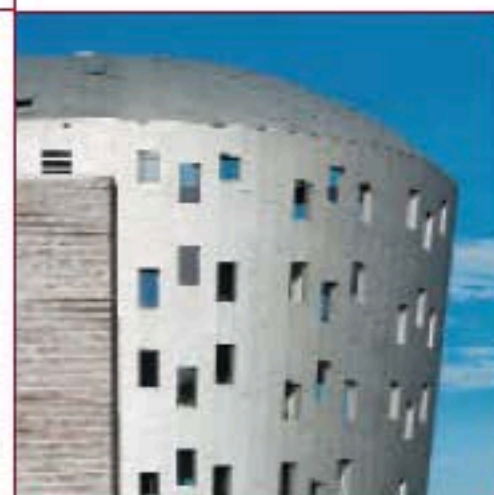
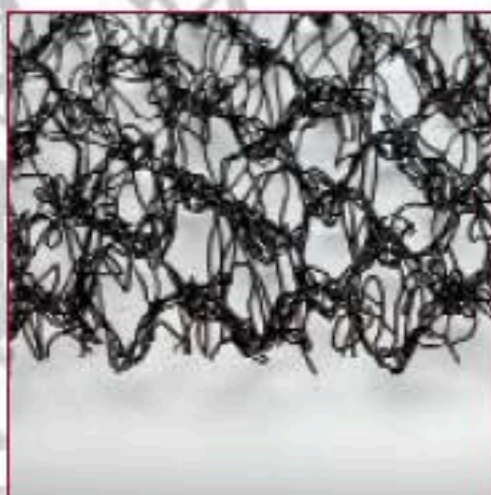
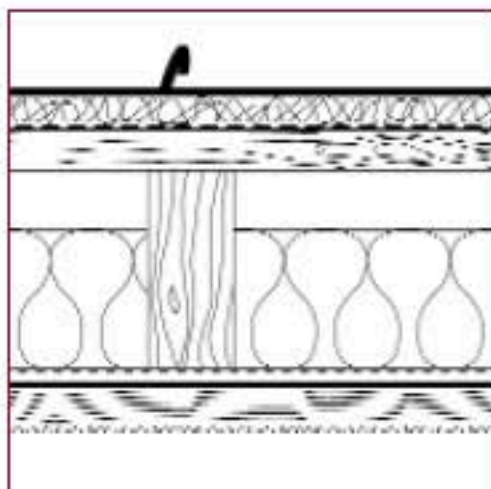
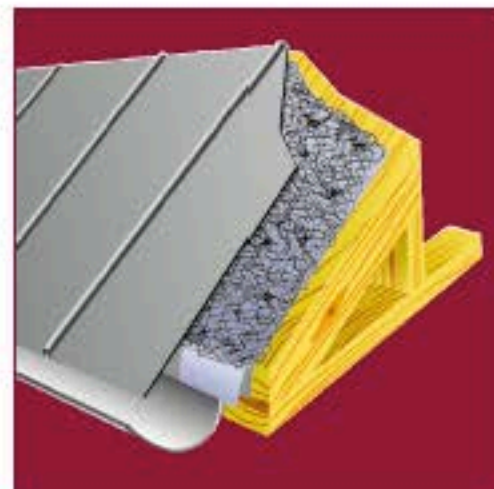
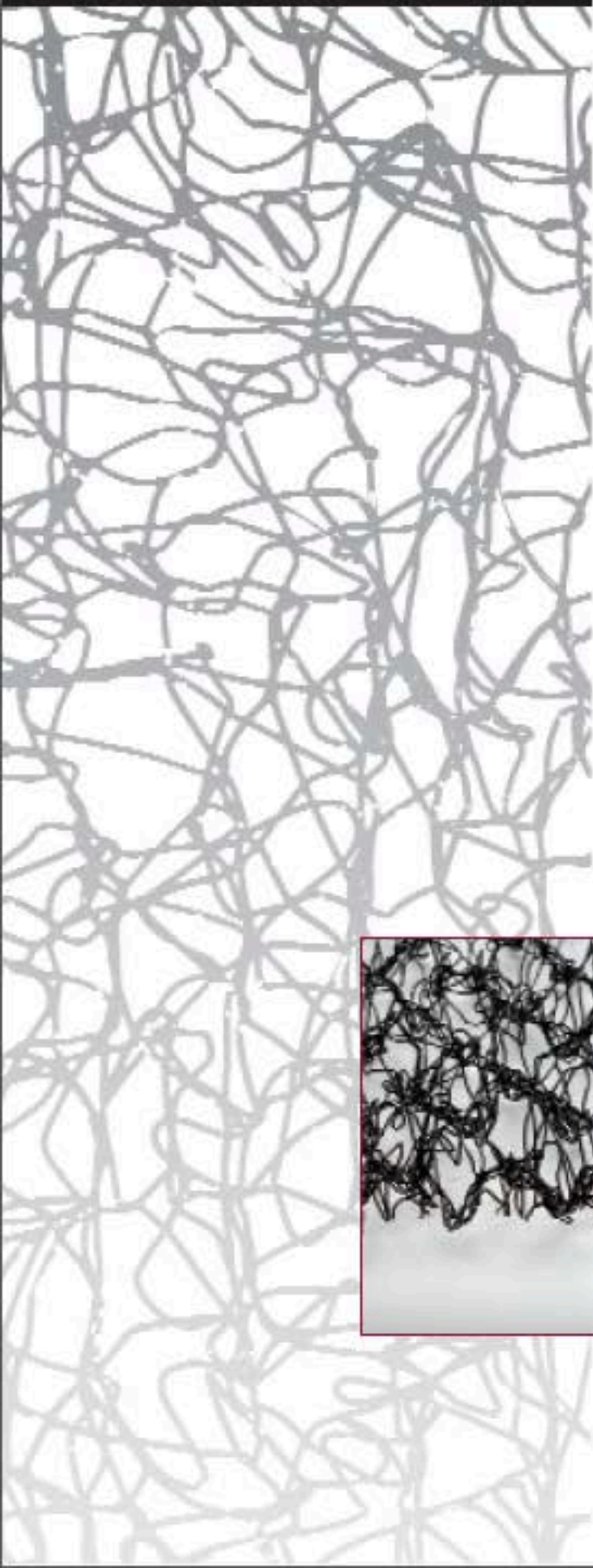


Enka[®]-Vent

VENTILATION LAYER
FOR METAL ROOFS



COLBOND

Enka-Vent

Application

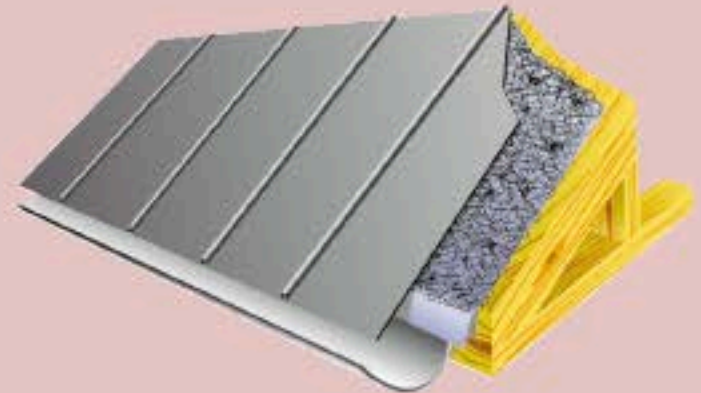
Metal roofs are used extensively throughout the world in all climates for functional and architectural purposes on commercial and domestic properties.

For buildings to be durable, their design and construction must suit local climatic conditions, including temperature, humidity, rainfall and interior climate.

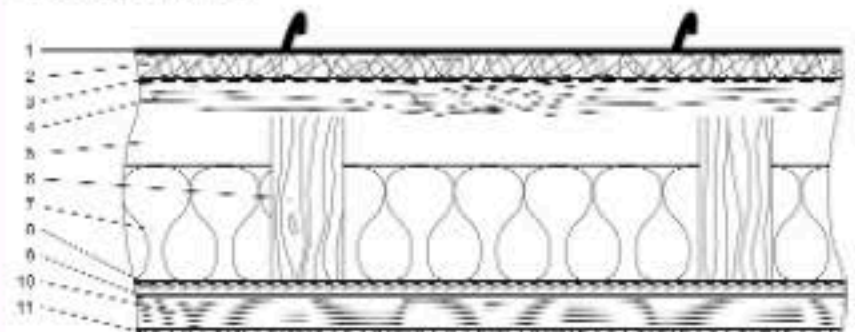
For example, in cold regions condensation is a major concern and in other regions moisture flow management is important.

In virtually all cases, ventilated ('cold roof') and unventilated ('warm roof') designs call for a drainage, ventilation and expansion layer between the metal sheathing and the waterproof vapour open underslating which seals the building structure. The use of such an interlayer is not only recommended by building and plumbing trade associations but also in some cases mandated by building directives. Furthermore, some roofing materials manufacturers will only offer an in-service guarantee on their products if an approved venting layer is also installed.

Enka-Vent is a multifunctional three-dimensional open-mesh polyamide material. It is easy to install and has excellent handling characteristics and durability. It is suitable for use in most metal roof designs, providing not only drainage, ventilation and flexible expansion but also a thermal and acoustic break.



Ventilated Roof



- | | |
|---|---|
| 1 Standing seam roofing
e.g. titanium/zinc or copper | 7 Thermal insulation |
| 2 Enka-Vent | 8 Plywood/OSB |
| 3 Waterproofing membrane | 9 Vapour barrier |
| 4 Plywood/OSB | 10 Support batten/cavity for
electrical work |
| 5 Air space | 11 Inner cladding |
| 6 Rafter | |

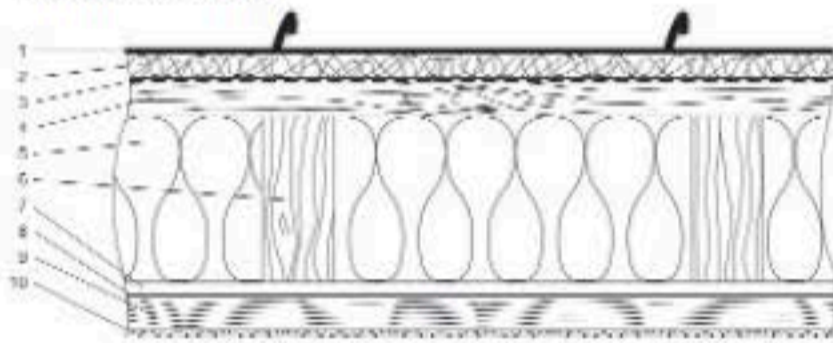


Source: Rheinzink GmbH & Co. KG, Datteln, Germany

Enka-Vent



Unventilated Roof



- 1 Standing seam roofing
e.g. titaniumzinc or copper
- 2 Enka-Vent
- 3 Waterproofing membrane
- 4 Plywood/OSB
- 5 Rafter

- 6 Thermal insulation
- 7 Plywood/OSB
- 8 Vapour barrier
- 9 Support battens/cavity for
electrical work
- 10 Inner cladding



Source: Rheinzink GmbH & Co. KG, Datteln, Germany

Installation

Enka-Vent is delivered to site in rolls of 1 m width and 150 m long and weighing approximately 210 g/m² making it easy to handle and position. It is rolled out on top of the underslating layer from the apex of the roof to the eave and cut to length using shears, before being secured at the top of the roof.

Benefits

- Suitable for use with zinc, copper, steel and aluminium roofing panels
- Drainage and ventilation layer with high void ratio ensuring unrestricted flow of air and water
- Reduction of rainfall noise by up to 50%
- Irregularities in substructure (nail heads, discontinuities) will not show through exterior roofing
- Allows differential movement due to temperature changes
- Entrapped moisture can diffuse out of the roofing structure





Source: Rheinzink GmbH & Co. KG, Datteln, Germany

The quality management of Colbond at Arnhem (development and sales) and Obernburg (production) has been approved by Lloyd's Register Quality Assurance Limited to the ISO 9001:2000 quality management system standard (certificate no. 935136). Deutscher Akkreditierungsrat (the German accreditation council) DAR-Reg. No. TGA-ZM-02-91-00.



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BD-01-GB-A-03/2003

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