

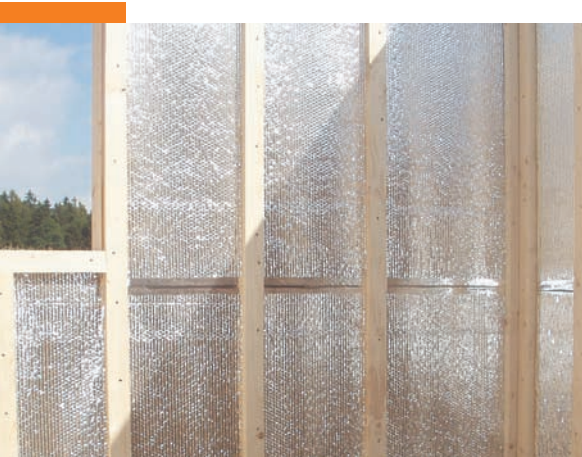
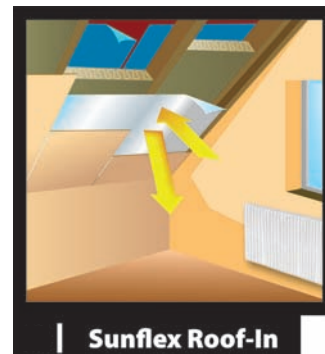


Reflexive Vapour-Tight Foil

SUNFLEX ROOF-IN

The vapour-tight reflexive foil Sunflex Roof-In combines properties of excellent vapour-tight foil, thermal insulation and reflexive effects. The foil is made by lamination of the reflexive aluminium layer over bubble film. The aluminium layer reflects up to 95% of thermal radiation back to the room. The reflexive layer together with the air cushions of the bubble foil and the air gap between the foil and the inside coat serve as additional insulation replacing up to 5 cm of insulation wool (thermal resistance of the layer with 3 cm air gap is 1.1 m²K/W). The foil application also eliminates thermal bridges between the insulation and the rafters. Ideal for low-energy buildings and timber constructions

Ideal for low-energy buildings and timber constructions



Properties

- 100% vapour-tight barrier
- 95% reflection of thermal radiation
- 20% energy saving
- Protects against electromagnetic smog
- High tear resistance in both directions
- UV and chemical resistant
- Long life (at least 30 years)
- Layer composition:
polyester – aluminium – polyethylene – bubble film (polyethylene)

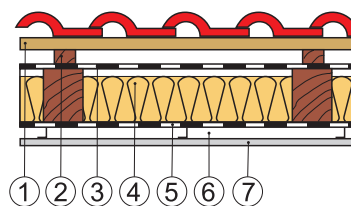
Assembly

Stretch the foil under the truss with the reflexive side facing the room. The individual belts overlap about 5 cm. Glue the joints with reflexive tape to prevent vapour infiltration in the insulation. The foil also needs proper sealing around the walls, the roof windows and the chimney with butyl-rubber tape or permanently elastic putty. Install wooden prisms or metal profiles on the foil to fix plasterboard or other coating. The air gap (about 3 cm) between the foil and the coat must be kept to preserve its reflexive properties.



SUNFLEX Roof System

The permeable foil Sunflex Roof-Out together with the vapour-tight foil Sunflex Roof-In form a high energy-saving system providing optimum protection for the construction and its thermal insulation against physical processes and effects (humidity effects, leaks, sudden temperature changes reducing material life etc.).



1. Lathing
2. Counter-lathes
3. Vapour-permeable reflexive foil Sunflex Roof-Out
4. Thermal insulation
5. Vapour-proof reflexion foil Sunflex Roof-In
6. Air gap created by wooden lathes or CD profiles
7. Inside coat

MANUFACTURER:



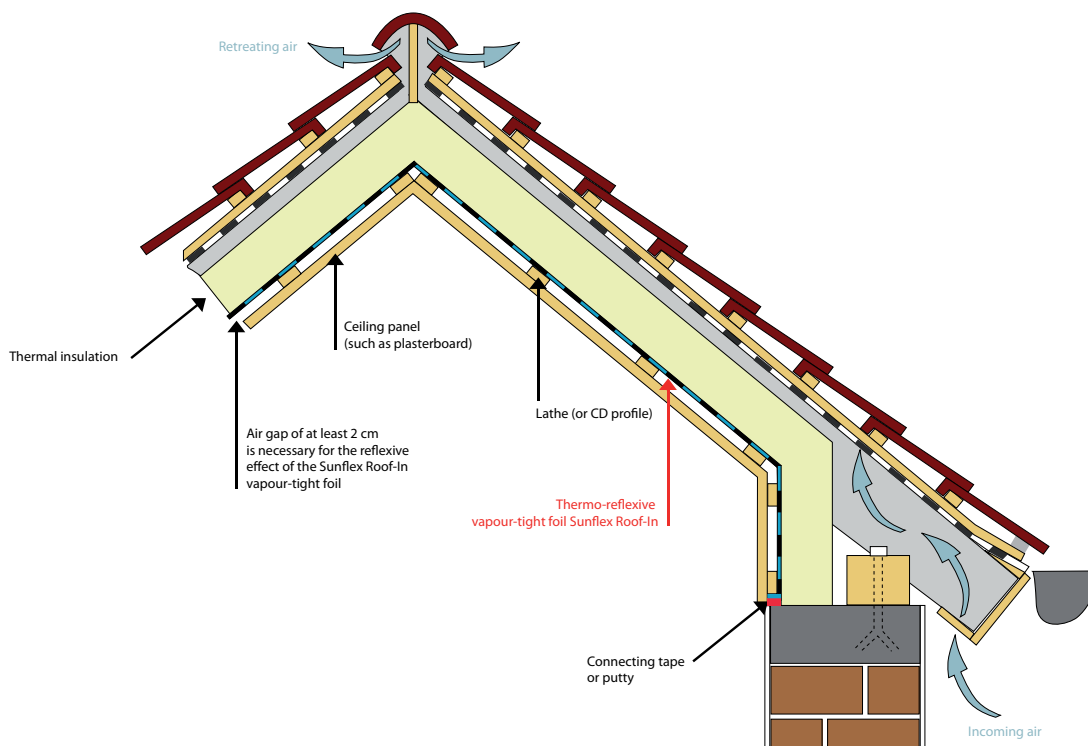
TART, s.r.o.
Vinohradská 91
618 00 Brno
Phone +420 548 210 500



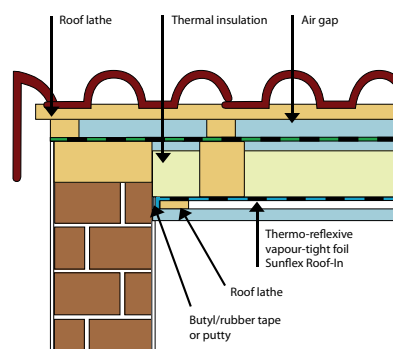
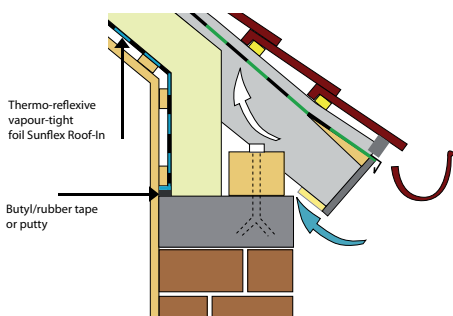
Vapour-Tight Reflexive Foil

SUNFLEX ROOF-IN

This foil will increase temperature in the room by up to **2 degrees C** on average



Vapour-tight barrier on the walls and through passes



Technical Data

Fire response	EN 13501-1	F
Roll size	EN 1848-2	1,2 × 41,7 m (50 m ²)
Thickness	EN 1849-2	3,49 mm
Planar weight	EN 1849-2	130 g/m ²
Waterproofing	EN 1928	Vyhovuje (2 kPa)
Vapour permeability	EN 1931	s _d = 380 m
Lengthwise/crosswise strength	EN 12311-2	136/137 N/50 mm
Lengthwise/crosswise stretch	EN 12311-2	44/45 %
Artificial aging effect	EN 1296	compliant
Skid stress	EN 12317-2	Min. 115 N
Tear resistance	EN 12310-1	Min. 60 N