



Also remember to:

- Use Permo® TR tape to seal laps etc – its transparency helps Wallint® solar maintain its low emissivity properties
- Seal around penetrations using tape eg Easy-Form® tape
- Seal to rough surfaces using a sealant eg Pasto®
- Seal around any pipes with a Pipe Sealing Collar and tape

## Area of application

Suitable for:

- The inner face of an insulated roof Walls (incl timber frame) & cold and warm roof applications
- Ceilings & walls of rooms-in-theroof, and on the ceilings below nonhabitable lofts

Wallint® solar is Klober's new reflective air barrier and vapour control layer. With a vapour resistance of over 500 MNsg, it far exceeds the requirements set out in BS9250 (Code of Practice for design of the airtightness of ceilings in pitched roofs). Its reflective surface reduces heat loss through the roof. Moreover, when combined with other products in Klober's airtightness range it will help you minimise energy loss.

## Product features & benefits

- Use in conjunction with Klober's other airtightness products to minimise energy loss
- As even thicker layers of insulation are installed to comply with more demanding Building Regulations, so it becomes increasingly important to provide an air barrier and vapour control layer on the warm side of the insulation
- Reflective surface increases construction's thermal resistance when facing into the services void or room Vapour resistance of >500 MNsg, far exceeding requirements of BS9250
- Provides an R-Value of 0.5m<sup>2</sup> K/W in the winter, when used with a 20mm service void
- Prevents large volumes of watervapour entering a construction from the interior, particularly during the drying-out period
- Provides support for insulation boards or quilts

## Material

Composite woven, non-woven, foil

## Roll sizes / Roll weights / Product Code

50 x 1.5m (75m<sup>2</sup>) / 13.5kg / KU0063

## Packaging

20 rolls/pallet

## Related products

- Pasto® sealant
- Permo® TR universal tape
- Tacto® double-sided tape
- Pipe sealing collar

## TECHNICAL DATA

Reaction to fire EN 13501-1, EN 11925-2	F class	
Resistance to water penetration EN 1928	W1	
Water vapour transmission EN 1931 (sd-value)	>100m	
Tensile strength longitudinal/ transverse EN 12311-2	600N/50mm	550N/50mm
Elongation longitudinal / transverse EN 12311-2	40%	50%
Resistance to tearing (nail shank) longitudinal / transverse EN 12310-1	250N	300N
Resistance to air penetration	0,003m <sup>3</sup> /m <sup>2</sup> h 50 Pa	
Resistance to temperature	-40°C /+80°C	
Water vapour transmission	>500 MNsg	

TS-09#55-UK-1217. We assume no liability for typing errors.



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## Installation

Before Wallint® solar is installed, check the moisture content of the timbers is less than 20%.

The reflective surface must be positioned inside. It is necessary to create an air space of >20mm between Wallint® solar and finishing ie. Plaster, paneling, etc. The Thermal performance of the wall in the winter is an R-Value of 0.5m<sup>2</sup> K/W. (The R-value is a measure of thermal resistance used in the building and construction industry).

In summer, low emissivity entry reduces the heat input of the exterior wall in the form of radiation.

The creation of the air space >20mm between the Wallint® solar and interior finishing for the thermal performance will give a space for example, electric cables, without piercings. This is very important to ensure the airtightness and the building performance in general.

At either edge of the structure, leave a 150mm overlap to allow Wallint® solar to be sealed to adjoining walls. Roll-out with a horizontal headlap of 150mm. Fix to rafters/ceiling joists using non-corrosive fixings eg staples. Ensure that laps are sealed using a tape eg Permo® TR, that it is sealed at all abutments/junctions using either tape eg Permo® TR or Pastro® sealant. If parging, first turn Wallint® solar down the face of the wall, fix plaster stop bead on top of Wallint® solar and then parge on top. Any holes or tears in the air barrier/vapour control layer should be repaired with Permo® TR tape. Where pipes pass through use Klober's Pipe Sealing Collar and tape edges to Wallint® solar to achieve an airtight seal. Wallint® solar should cover the entire internal timber frame area of the rooms in the roof and, where applicable, link with vapour control layer in the wall below to form a continuous air barrier. For refurbishment projects, Wallint® solar should be laid vertically either from ridge to eaves or vice versa. This is to allow small sections of the roof to be worked on. Joins should be taped using Permo® TR and sealed at the eaves using Pastro® or Permo® TR.