

PHOTONWRAP



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- Reflective breathable membrane
- Excellent vapour permeability
- Low emissivity reflective surface
- UV and heat resistant
- Specifically designed to enhance thermal performance of timber frame structures
- Roll size 50m x 1.35m



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W1350L50W3
EN 13859-2-2014

Flexible sheets for underlays for walls

PhotonWrap, 50m x 1.35m
For use in walls of buildings

Reaction to fire: Class E

Resistance to water penetration: Class W3

Water vapour resistance: 0.025 MN.s/g.m

PhotonWrap Fixing Instructions

General

- PhotonWrap must be installed in accordance with these instructions and should follow Building Regulations and current good building practice.
- PhotonWrap can be damaged by high winds, prolonged exposure to UV, careless handling or by vandalism and must be covered as soon as practically possible on completion of installation. Any damaged areas should be repaired or replaced before completion.
- PhotonWrap does not require personal protective equipment to be used.
- Secondary insulation such as PIR and glass wool should be installed as described in manufacturers' literature.
- To reduce the risk of condensation an air and vapour control layer must be used on the warm side of the insulation layer.
- Installation should follow Building Regulations and current good building practice.

Air gaps

- Air in a relatively narrow unventilated cavity bounded by low emissivity surfaces is an excellent insulator.
- PhotonWrap's very low emissivity surfaces allow the optimisation of air gap performance.
- The optimum thermal performance of PhotonWrap is gained from the use of 20mm air gaps.

Installation

- Unroll PhotonWrap and fit directly to the frame sheathing making sure that the lower base timbers are covered. Ensure that the vertical joints are staggered.
- To assist with the subsequent location of the vertical studs clearly mark them on the external surface of the PhotonWrap.
- PhotonWrap should be held in place by stainless steel nails or staples at regular intervals not exceeding 500mm vertically and 1.0m horizontally. Lap PhotonWrap 100mm horizontally and 150mm vertically and at external corners return PhotonWrap by 300mm.
- Upper layers should overlap lower layers to shed water away from the structure and below the level of the lowest timber. It is essential that the lowest timber members are protected by PhotonWrap.
- At openings PhotonWrap should be detailed into the opening return to ensure there is sufficient lap and weathering with the proposed framing.
- At cavity barriers and trays PhotonWrap should be lapped by at least 100mm horizontally and 150mm vertically.
- Any damage to the PhotonWrap should be repaired prior to the installation of the external cladding by laying another sheet over the damaged area and sealing it in place, ensuring that water can be shed away from the sheathing.

