# PHOTONFOIL-A1

# **Non Combustible VCL Multi Foil Insulation**

1.2 x 10 meters: 12m2

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0338 0578

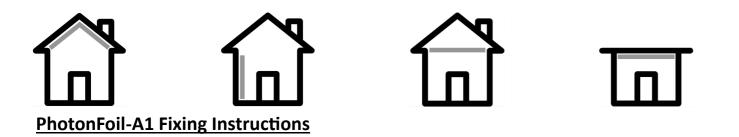
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CEDoP\_PhotonFoil-A1\_VersionNo2\_Nov2020 PFV33A1 BS EN 13984:2013

Flexible sheets for waterproofing PhotonFoil-A1, 10m x 1.2m

Water tightness: W1 Water vapour resistance: 4000MNs/g Tensile: MD 5730 N/50mm, XD 4390 N/50mm Reaction to fire: Class A1

Additional Characteristics (EN 16012:2012+A1:2015) Core R value: 0.97 W/m.k Emissivity: 0.05 Thickness: 33mm Weight: 1.20 kg/m2



### General

- PhotonFoil-A1 does not require personal protective equipment to be used.
- As with all insulation, installers should follow the Electrical Wiring Regulations when in the presence of electrical wiring.
- Secondary insulation such as PIR and glass wool should be installed as described in ٠ manufacturers' literature.
- Installation should follow Building Regulations and current good building practice.

## Air gaps and air leakage

- Air in a relatively narrow unventilated cavity bounded by low emissivity surfaces is an excellent insulator.
- Building Regulations require that air leakage through and around insulation is kept to a minimum.
- PhotonFoil-A1's very low emissivity and air impermeable surfaces allow the optimisation of air gap performance.
- The optimum thermal performance of PhotonFoil-A1 is gained from the use of 20mm ٠ air gaps.
- The flexible nature of PhotonFoil-A1 allows it to be easily stapled and sealed to awkward shaped structures.

## Installation

- PhotonFoil-A1 is normally applied across the rafters/studs but can be applied vertically if the rafter/stud layout makes this more effective.
- PhotonFoil-A1 can be simply held in place by staples of at least 14mm depth. •
- PhotonFoil-A1 has 50mm flaps on both edges which allows it to be butted up to itself and taped with aluminium foil self adhesive tape on the overlap.
- PhotonFoil-A1 is easily cut with sharp scissors (Kretzer Finny recommended) or sharp ٠ knife against a board.
- Junctions with wall plates, eaves and walls should be carefully taped/stapled to ٠ ensure no air leakage and that unventilated air spaces are achieved.
- Counter battens should be fixed to rafters/studs either with screws or nails and ٠ windows perimeters should also be battened. PhotonFoil-A1 does not wind up on screws like polyester based products.
- Plasterboard is then fixed to the inside of the ceiling/wall.
- Make sure you get those air layers right! ٠







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