

# PHOTONFOIL-A1



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PFV33A1 1.2X10

## Non Combustible VCL Multi Foil Insulation

1.2 x 10 meters: 12m<sup>2</sup>

01257241084

[www.thermictechnology.co.uk](http://www.thermictechnology.co.uk); [info@thermictechnology.co.uk](mailto:info@thermictechnology.co.uk)



0338  
0578

Thermic Technology Ltd, Unit 15 Moorland Gate  
Business Park, Cowling Road, Chorley, PR69FE  
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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/m<sup>2</sup>



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## PhotonFoil-A1 Fixing Instructions

### 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 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 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 knife against a board.
- Junctions with wall plates, eaves and walls should be carefully taped/stapled to 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 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!



Thermic Technology Ltd

Unit 15 Moorland Gate Business park

Cowling Road

Chorley

Lancashire

PR6 9FE

01257 241084

info@thermictechnology.co.uk

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