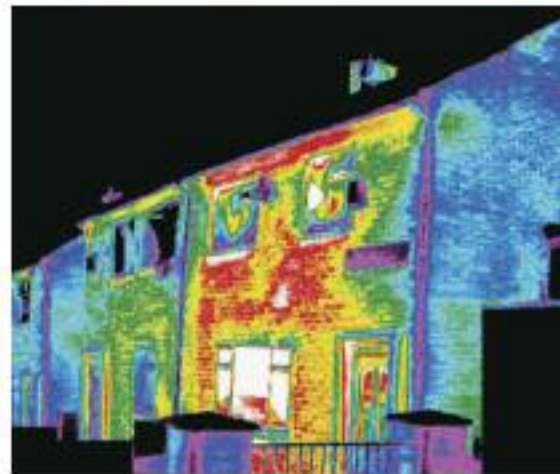




UP AGAINST THE WALL

**Effective external insulation for
'Hard to Treat' homes...**

...from concept to completion





UP AGAINST THE WALL

There is a critical need to tackle the insulation of the millions of 'hard to treat' solid wall homes in the National Housing Stock

Problem

Some four million solid wall houses require treatment and differing construction types have different remedial requirements and considerations:

- Insulation thickness required
- Budget
- Long term performance
- Available space for insulation
- Disruption to the tenant
- Cold bridging details
- Speed of installation
- Robustness and durability of insulation system
- Guarantees/Warranties/Certification

Solution

The InstaClad External Wall Insulation System has been developed after extensive research into methods and materials to create a versatile product range that tackles the issues listed above. It provides a layer of insulation, fixed externally to the walls, which acts as a thermal barrier keeping the cold and damp out while retaining heat within the structure.

InstaClad is a panel system utilising Resistant MultiPro, a magnesium silicate board, as the optimum facing board. Each panel comprises a thermal insulant, either aerogel, PIR or graphite enhanced EPS bonded to the Resistant MultiPro board. The thickness of the insulation is determined by the thermal specification required of the wall.

- **InstaClad SuperSlim** – Aerogel insulation bonded to 9mm MultiPro magnesium silicate board
- **InstaClad Slim** - PIR (Polyisocyanurate) insulation bonded to 9mm MultiPro magnesium silicate board
- **InstaClad Standard** - graphite enhanced EPS (Expanded Polystyrene) bonded to 9mm MultiPro magnesium silicate board

The InstaClad panels are fitted to a series of shallow rails with joints between boards being scrim taped and skimmed. Even prior to painting this rapidly creates a weatherproof façade, unlike conventional systems which require the time consuming application and setting of a wet base coat render to a mesh carrier fixed to the boards, both of which can be affected by the weather. With the InstaClad system a thin coat of render or acrylic paint can be applied directly to the MultiPro panels. This quickly establishes effective external insulation while saving considerable labour, time on site and associated costs.

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AEROGEL SUPERSLIM

The combination of InstaClad's patented fixing method and strong commitment to installation "Best Practice", makes **InstaClad AEROGEL SUPERSLIM** the specifiers choice.

InstaClad AEROGEL SUPERSLIM is a unique, innovative insulation product that is remarkably thin. Consisting of a 9mm Multi-Pro magnesium silicate board laminated to an aerogel insulation, **InstaClad AEROGEL SUPERSLIM** is the thinnest and most thermally efficient panel available in today's market.

Aerogel Thickness	MultiPro Thickness	Approximate installed thickness incl. rail excl finishes	R value of laminate (m ² K/W)	Installed U value* of system (W/m ² K)
10mm	9mm	29mm	0.82	0.80
20mm	9mm	39mm	1.59	0.51
30mm	9mm	49mm	2.35	0.37
40mm	9mm	59mm	3.12	0.29
80mm	9mm	99mm	6.20	0.16



Ofgem approved as an energy saving measure under CERT

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SLIM

InstaClad SLIM is a thermal laminate comprising a robust 9mm thick Multi-Pro magnesium silicate board, bonded to a high performance PIR (Polyisocyanurate Insulation Board) with a laminated foil layer included as an integral AVCL.



PIR Thickness	MultiPro Thickness	Approximate installed thickness incl. rail excl finishes	R value of laminate (m ² K/W)	Installed U value* of system (W/m ² K)
40mm	9mm	59mm	1.65	0.47
50mm	9mm	69mm	2.05	0.40
60mm	9mm	79mm	2.45	0.34
70mm	9mm	89mm	2.85	0.30
80mm	9mm	99mm	3.25	0.27



to achieve U-value of 30 W/m²K when installed on a 9" solid brick wall as prescribed in Part L October 2010

* when fixed directly to 9" solid brickwork

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STANDARD

InstaClad STANDARD is a thermal laminate comprising a robust 9mm thick Multi-Pro magnesium silicate board, bonded to a Graphite EPS (Expanded Polystyrene) with an integrated AVCL.



Graphite EPS Thickness	MultiPro Thickness	Approximate installed thickness incl. rail excl finishes	R value of laminate (m ² K/W)	Installed U value* of system (W/m ² K)
50mm	9mm	69mm	2.14	0.47
60mm	9mm	79mm	2.46	0.41
70mm	9mm	89mm	2.78	0.36
90mm	9mm	109mm	3.42	0.29
100mm	9mm	119mm	3.75	0.27

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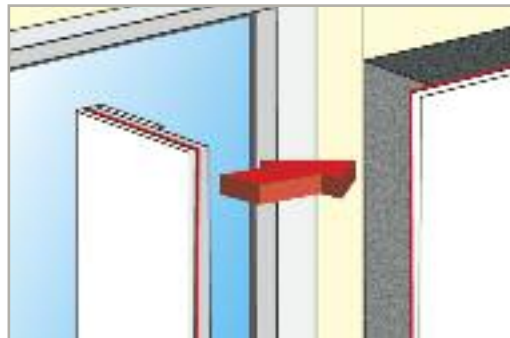
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REVEAL

R-value 0.80m²K/W

NEW

- Reduce heat losses through reveals
- Reduce the risk of obscuring window function
- Increase the performance of your insulation upgrade



† other thicknesses available





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At Insta we understand the challenges encountered by authorities and homeowners in efficiently upgrading the insulation levels of the varying kinds of 'hard to treat' housing. Consequently, we have an external insulation solution that effectively overcomes the diverse demands of variable situations.

As different types of homes have different upgrade requirements, we work closely with all interested parties to ensure that our tailored retrofit solutions meet both the needs of our clients and their properties.

It is important to ensure that the materials and installation methods used in the upgrading process fulfil our clients' expectations while enhancing the property's energy efficiency and appearance. InstaClad incorporates the highest quality materials and through ongoing training, monitoring and inspection, ensures that best practice is delivered at each installation.

Our customers demand and expect us to deliver safe and healthy upgrade solutions. Therefore, our recommendations, products and installations need to reflect this trust by delivering high levels of service and performance that also take into account any consequential effects the improvements may have on the building's fabric and its occupants.

The InstaClad system offers an unrivalled choice of energy conservation solutions that incorporate tried and tested products while at the same time leading the field in introducing new technologies such as aerogel insulation and thermal mass replacement techniques.





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