

Installation examples for EDENBLOC³⁵



EDENBLOC³⁵ – advice to ensure correct installation

EDENBLOC³⁵ insulation boards are ideal for use in both new-build and refurbishment projects. Applications include insulation of, walls, ground floors and intermediate floors.. The product is environmentally friendly and safe to handle. The sizes offered allow many combinations of thicknesses and widths to be selected.

EDENBLOC³⁵ insulation boards from nbs				
Please note, boards can be used with either a VCL or a Low Emissivity membrane.				
Quantities shown below are supplied as palletised packs				
EDENBLOC ³⁵ board thickness mm	Number of boards per pack	Area per pack m ²	Nominal weight per pack kg	Product code
50	6	4.32	9.72	PEB50600
60	5	3.60	9.70	PEB60600
75	4	2.88	9.72	PEB75600
100	3	2.16	9.72	PEB100600
120	2	1.44	7.76	PEB120600
150	2	1.44	9.72	PEB150600

All EDENBLOC³⁵ boards are 1200mm long x 600mm wide (0.72 m²)
Technical support and bespoke thicknesses available.

Thermal conductivity of EDENBLOC³⁵ insulation board = 0.035 W/mK
 Providing superior performance than other natural insulation.

Energy Efficient and Totally Safe

The cleaning, air-laying and thermal bonding processing during the manufacture of all ThermoFleece, PB20 and EDENBLOC³⁵ insulation products consumes minimal energy. The products are harmless and can be handled without gloves or protective clothing. It is not irritating to the skin, eyes or respiratory tract and causes no discomfort to site workers during installation. Being a natural material any fibres which happen to reach the living space will present no hazard to health. The necessary insect proofing and fire resistance rating is achieved by the inclusion of naturally derived additives.

SAFETY NOTE: Lofts in old building can be very dusty, so it is wise to wear a breathing mask and protective clothing when installing the product in confined areas. Where EDENBLOC³⁵ boards are being installed over existing fibrous insulation it is essential a dust mask is worn to prevent inhalation of existing dust particles.

EDEN Premium VCL Membrane (Vapour Control Layer) Roll size 1500mm wide x 50m roll.

Second Nature Eden Premium Vapour Control Layer is design purely as a VCL membrane to be used on the warm side, in front of the insulation, to control the passage of vapour through the structure. Manufactured from clear reinforced polythene membrane, the Second Nature Eden Premium Vapour Control Layer has a Moisture Vapour Resistance of 460 Mns/g. and a Moisture Vapour Permeability of 0.46 g/m²/24hr. The application of Second Nature Eden Premium Vapour Control Layer can range from use within Timber Frame, Rafter applications or where a vapour control layer is required and is supplied in roll.

EDEN LEC Membrane (Combined Low Emissivity, Vapour Control Layer) Roll size 1000mm wide x 50m roll.

Eden LEC Membrane is an extremely effective vapour control layer and can be used as an efficient alternative to conventional vapour control membranes. The Eden low emissivity layers also act as a highly heat reflective membranes which when placed against the warm side of the insulation with the reflective surface facing into a void created by using 25mm battens, this generates a low emissivity cavity providing additional insulation performance. The cavity also acts as a service void for encasing cables or pipes ensuring that the VCL is not penetrated by services. The Eden LEC Membrane is a low emissivity vapour control membrane comprising a glass reinforced aluminium reflective facing laminated to a waterproof bitumen coated kraft paper.

EDEN LEC Xtra Membrane (High performance, combined Low E, Vapour Control Layer) Roll size 1250mm wide x 96m roll.

Eden Xtra BBA Approved low emissivity vapour control membranes are also extremely effective vapour barriers and can be used as an efficient alternative to conventional vapour control membranes. Eden Xtra low emissivity layers are highly heat reflective membranes. The primary function of a heat reflecting membrane is to block infrared energy radiating across air spaces. Infrared energy converts to conducted heat when it strikes a surface such as a wall or roof. that are placed against the warm side of the insulation with the reflective surface facing a void created using 25mm battens. This generates a low emissivity cavity providing additional insulation performance. The cavity also acts as a service void for encasing cables or pipes ensuring that the VCL is not penetrated by services.

EDEN BBA Breather Membrane Roll size 1500mm wide x 50m roll or 1500mm wide x 50m roll.

EDEN Double-sided Butyle VCL tape Roll size 30mm wide x 30m roll. Please note this tape is 1.5mm thick.

To ensure that all joint are sealed to stop the leakage of vapour through the structure, it is required that the Second Nature **Eden Premium Vapour Control Layer** is sealed at all joint, including the detail to the head and sole plate of a frame with Second Nature Eden Double-Sided Butyl VCL Tape. The tape is a double-sided black butyl jointing and sealing tape, for use with Second Nature Eden Premium Vapour Control Layer Nature Premium Vapour Control which maintain the complete sealing of all overlapping joints (min of 100mm), and to include the head and sole plate of a frame detail.

EDEN Low Emissivity self adhesive FOIL tape Roll size 50mm wide x 100m roll.

To ensure that all joint are sealed to stop the leakage of vapour through the structure, it is required that the Second Nature Eden LEC and LEC Xtra Low Emissivity Vapour Control Layer is sealed at all joint, including the detail to the head and sole plate of a frame. The FOIL tape is Low E to match the **EDEN LEC Xtra Membrane** and has a high performance acrylic adhesive protected by a removable paper backing. Completely seals all overlapping joints (min of 50mm), and to include the head and sole plate of a frame detail.

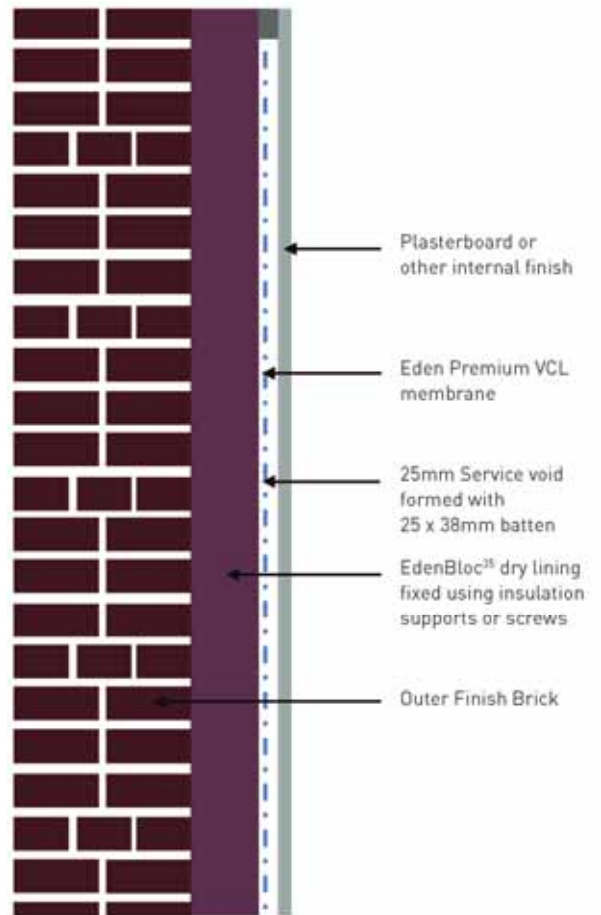
Solid Brick Wall

Nine inch brick wall, EDENBLOC35 insulation boards and EDEN Premium VRC membrane within a 25mm service void

EDENBLOC35 mm	U-value* W/m ² K
50	
60	0.40
75	0.35
100	0.29
125 (75 + 50)	0.24

* Based on a generic wall construction. For specific U-value calculations please contact sales@nbs-home.co.uk.

Use EDEN Double-sided Butyle VCL tape to fix the EDEN Premium VCL to the EDENBLOC35 insulation boards.



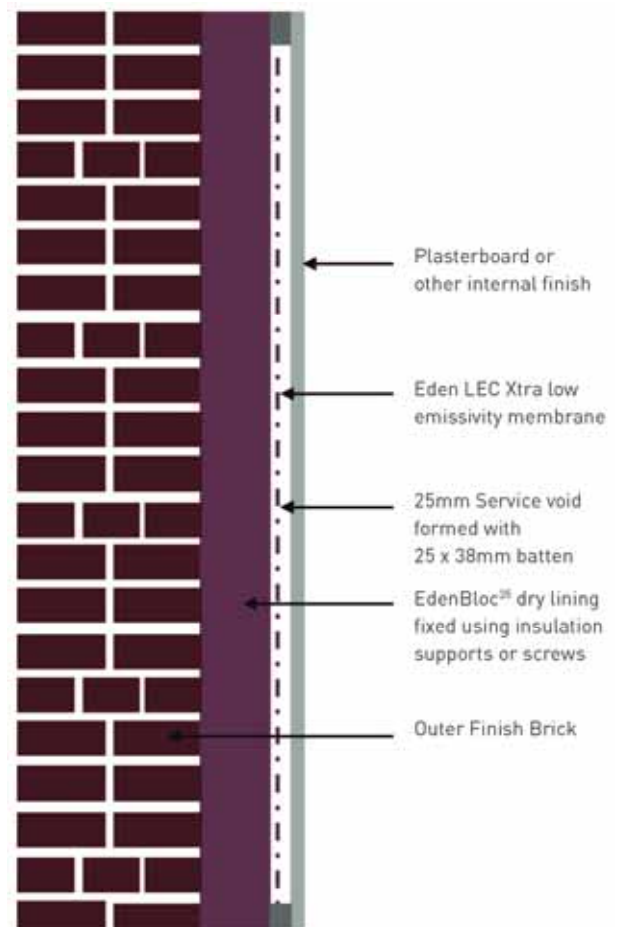
Solid Brick Wall

Nine inch brick wall, EDENBLOC35 insulation boards and EDEN LEC Xtra Low Emissivity VCL membrane.

EDENBLOC35 mm	U-value* W/m ² K
50	
60	0.34
75	0.30
100	0.25
125 (75 + 50)	0.22

* Based on a generic wall construction. For specific U-value calculations please contact sales@nbs-home.co.uk..

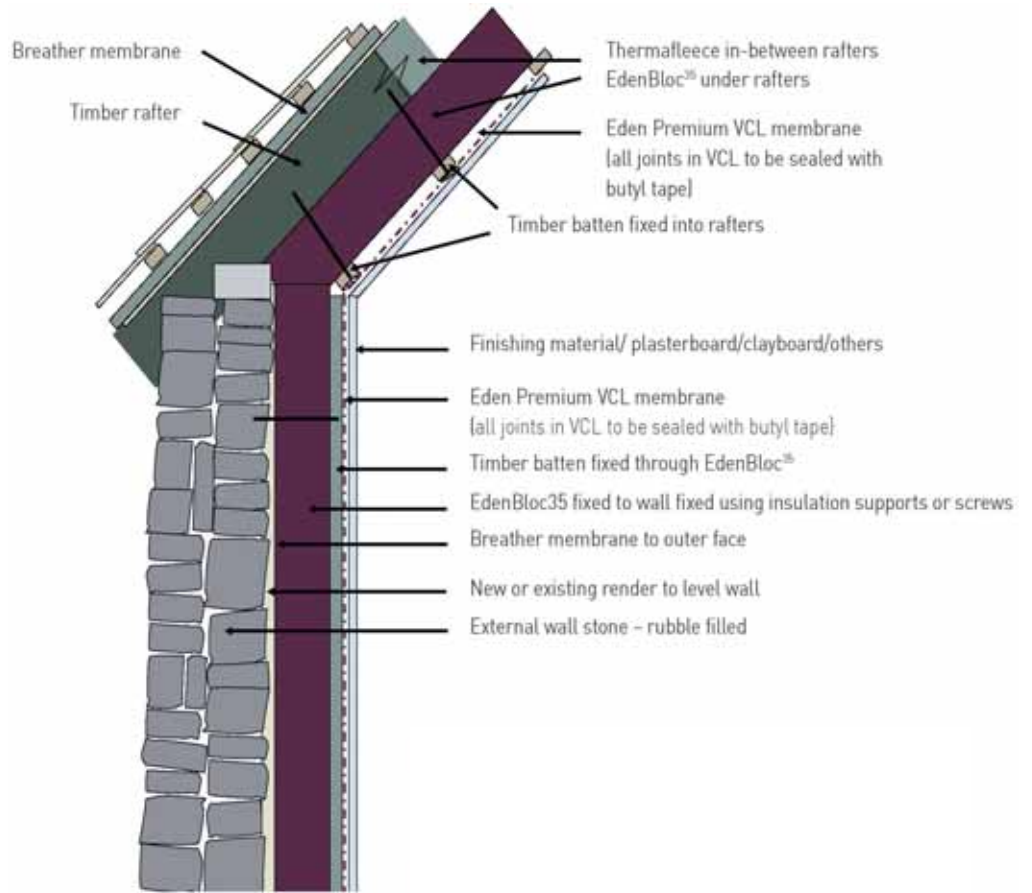
Seal all joints on the EDEN LEC Xtra Membrane with EDEN Low Emissivity self adhesive FOIL tape. Use the tape to seal joints between the EDEN LEC Xtra Membrane and adjacent structures.



Wall Detail

Stone wall, render to level, breather membrane, EDENBLOC35 insulation board, service void, EDEN Premium VRC membrane and plasterboard.

EDENBLOC35 mm	U-value* W/m ² K
50	
60	0.44
75	0.37
100	0.30
125 (75 + 50)	
* Based on a generic wall construction. For specific U-value calculations please contact sales@nbs-home.co.uk..	



Roof Detail

Slate roof, breather membrane, THERMAFLEECE Batt, EDENBLOC35 insulation boards, service void, EDEN Premium VRC membrane and plasterboard.

EDENBLOC35 mm	THERMAFLEECE or PB20 mm	U-value** W/m ² K
50		
60	100	0.22
75	100	0.20
100	100	0.17
125 (75 + 50)	100	0.15
50		
60	125	0.20
75	125	0.18
100	125	0.16
125 (75 + 50)	125	0.14
** Based on a generic roof construction. For specific U-value calculations please contact sales@nbs-home.co.uk.		

Wall Detail

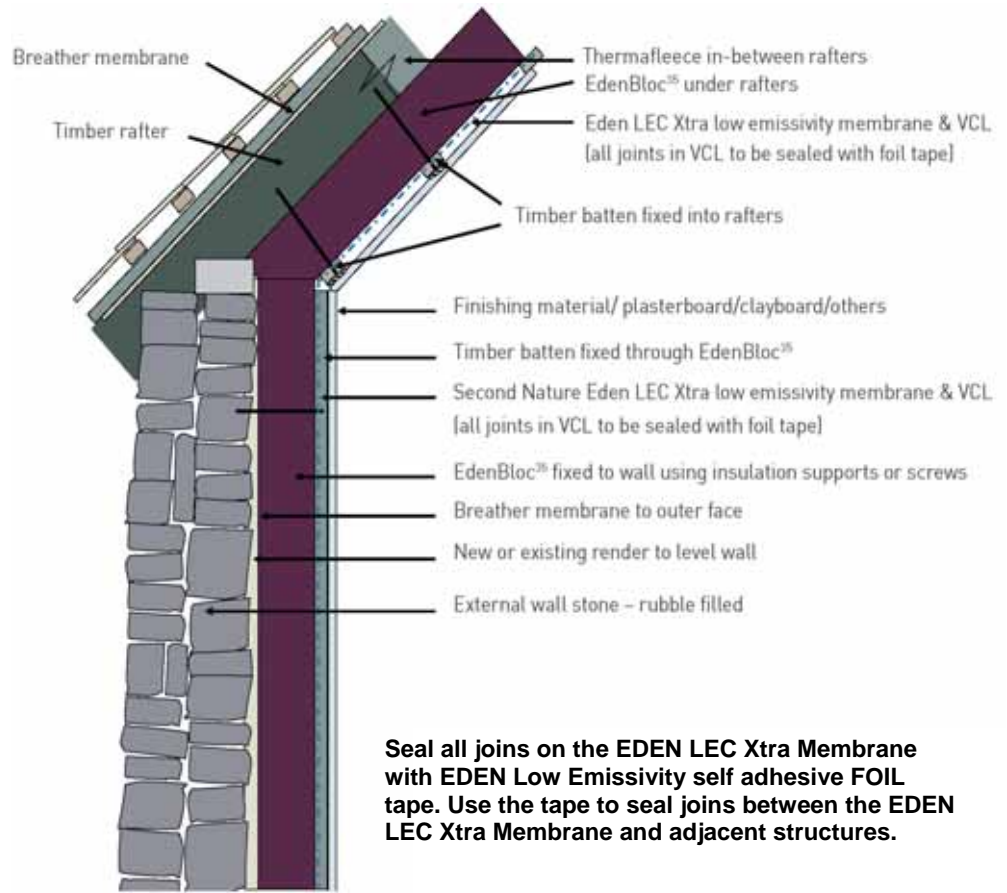
Stone wall, render to level, breather membrane, EDENBLOC35 insulation board, service void, EDEN Low Emissivity VCL membrane and plasterboard.

EDENBLOC35 mm	U-value* W/m ² K
50	
60	0.36
75	0.32
100	0.27
125 (75 + 50)	0.23
* Based on a generic wall construction. For specific U-value calculations please contact sales@nbs-home.co.uk..	

Roof Detail

Slate roof, breather membrane, THERMAFLEECE Batt, EDENBLOC35 insulation boards, service void, EDEN Low Emissivity VCL membrane and plasterboard.

EDENBLOC35 mm	THERMAFLEECE or PB20 mm	U-value** W/m ² K
50		
60	100	0.22
75	100	0.20
100	100	0.17
125 (75 + 50)	100	0.15
50		
60	125	0.20
75	125	0.18
100	125	0.16
125 (75 + 50)	125	0.14
** Based on a generic roof construction. For specific U-value calculations please contact sales@nbs-home.co.uk.		



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EDENBLOC35 insulation is conveniently available from:

nationwide
build
shop