IndiNature®
Bio-based construction systems

IndiBreathe Flex

NEW BUILD INSTALL GUIDE

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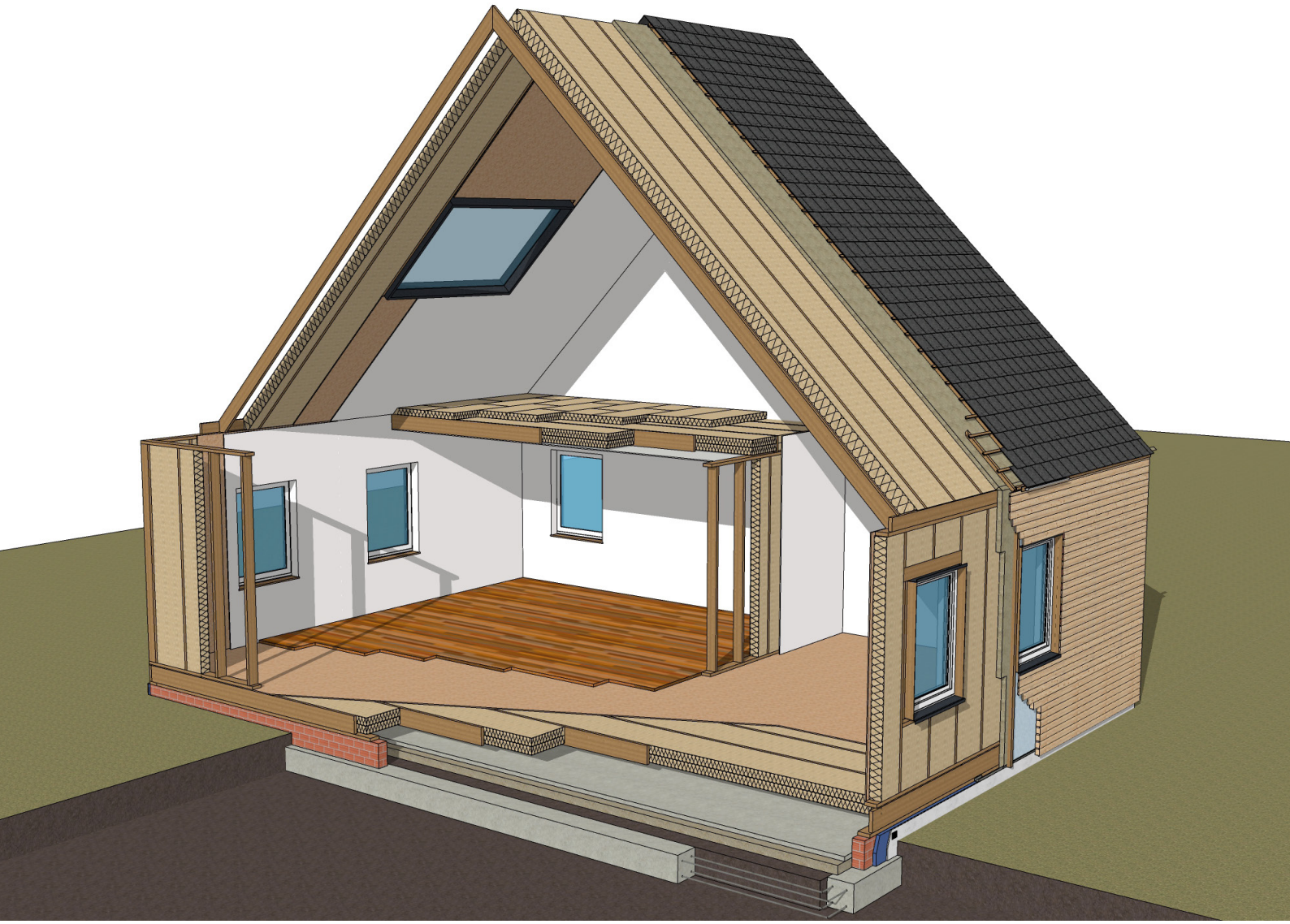
INUK5_002_2409_IndBreathe Flex

1 Timber Frame New Build

This chapter provides the detailing guidelines to ensure the correct installation and optimal performance of IndiBreathe Flex insulation in timber frame buildings with timber cladding.

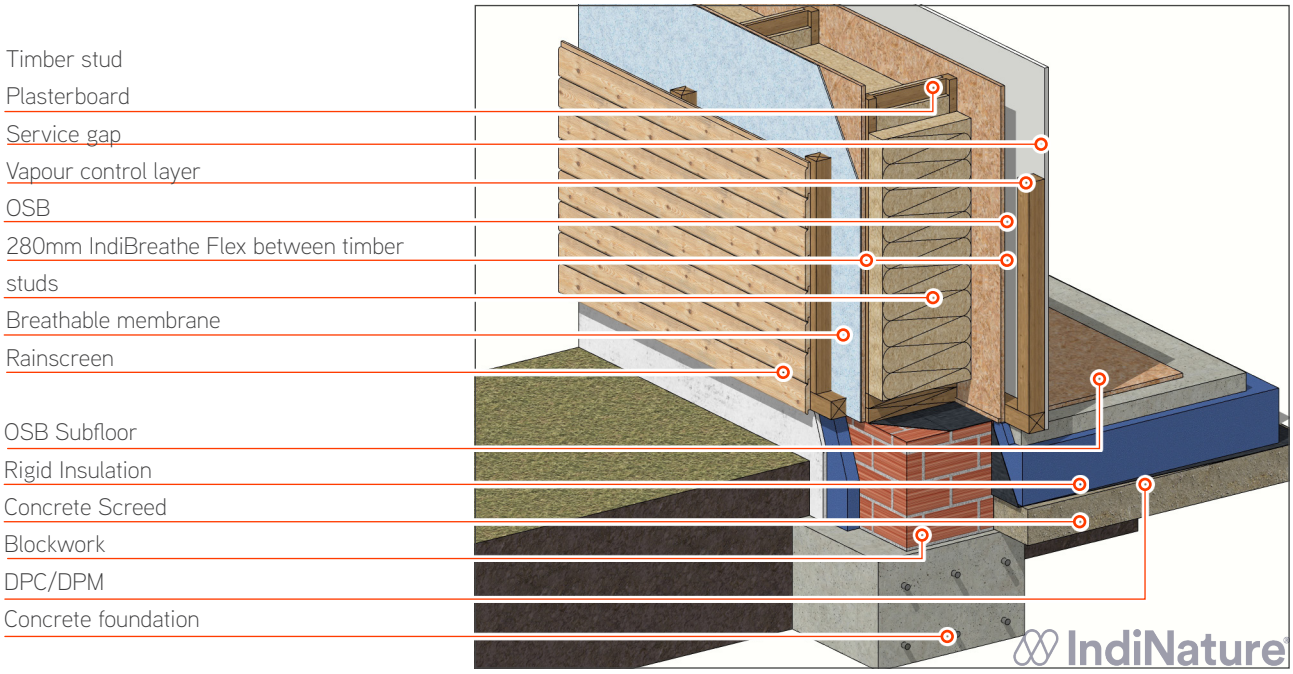
Product information section:
All IndiNature products are easy to handle, cut and install. Care should be taken to make sure all material friction fits between timber studs so as to minimise any air gaps. Product should be installed in a clean, dry condition in a dry application and not be left permanently exposed to the elements. For cutting please see cutting guide at the end of this document.

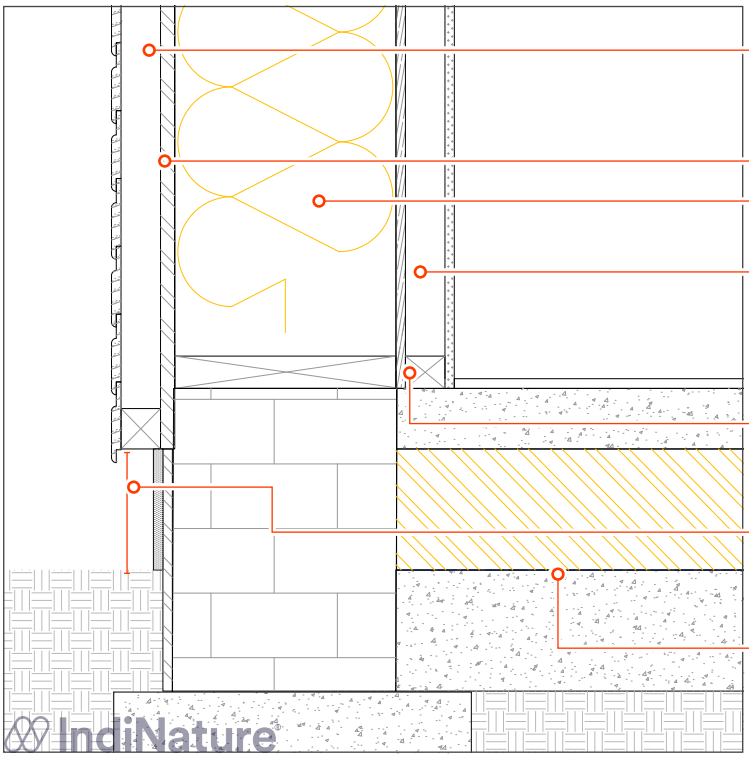
Contents



Foundation - Slab Floor

1.1 Conventional timber frame house foundation, using concrete strips and a solid slab floor





50mm air gap required between cladding

Waterproof Breathable membrane fixed to the OSB

280mm IndiBreathe Flex between timber studs

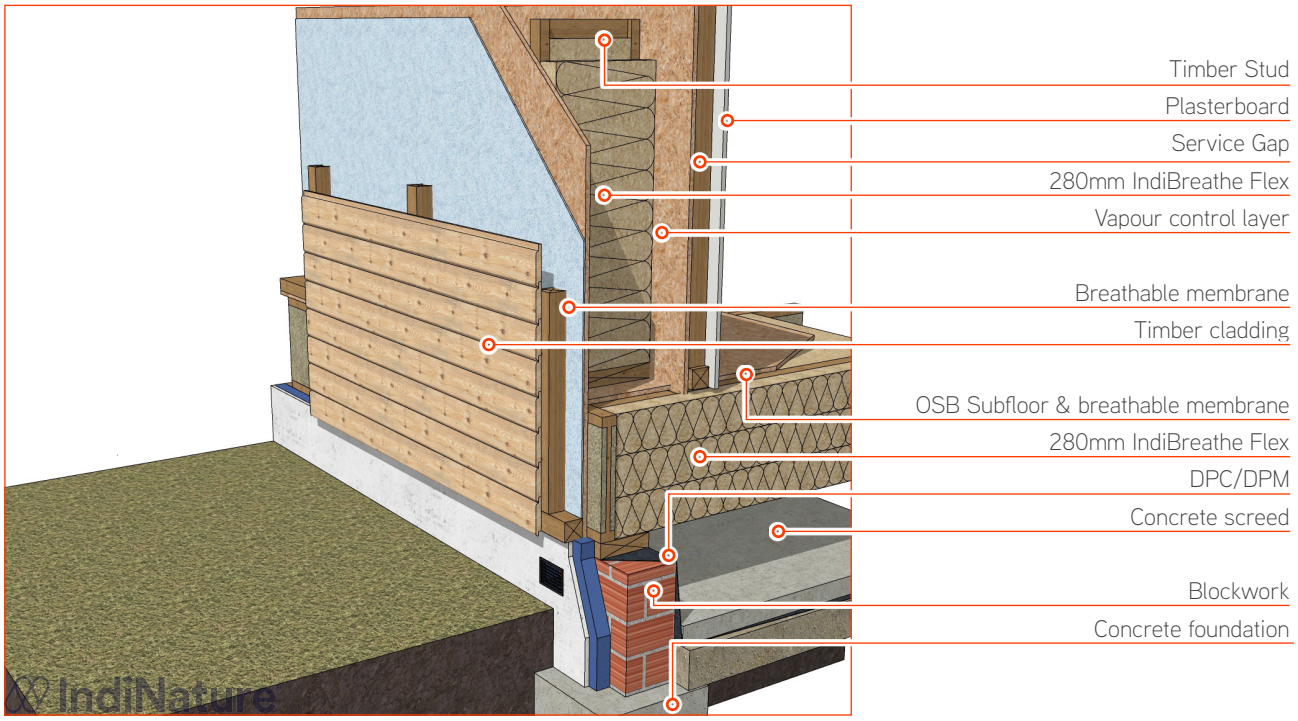
50mm service gap between OSB and plasterboard

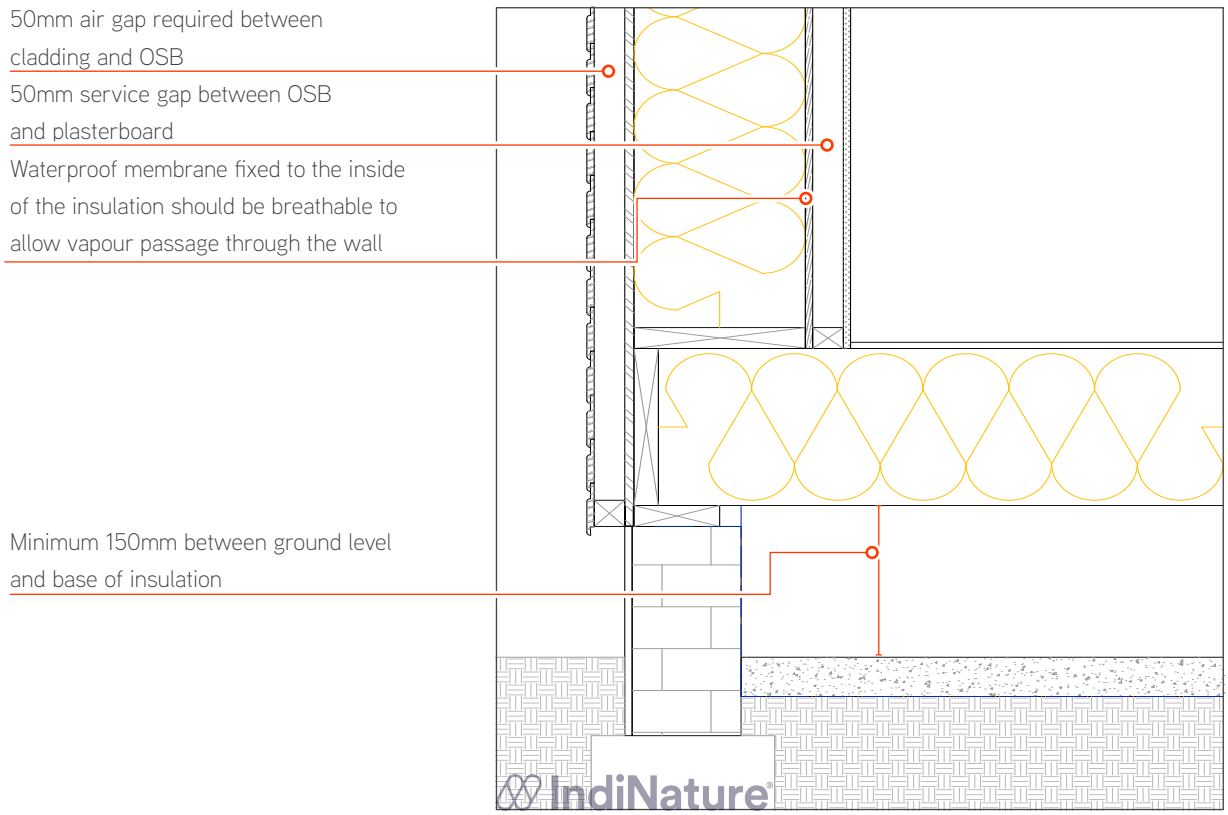
Airtight sealing tape between OSB and screed

Minimum 150mm between ground level and base of insulation

DPC beneath rigid subfloor insulation, and lapped over foundation blockwork

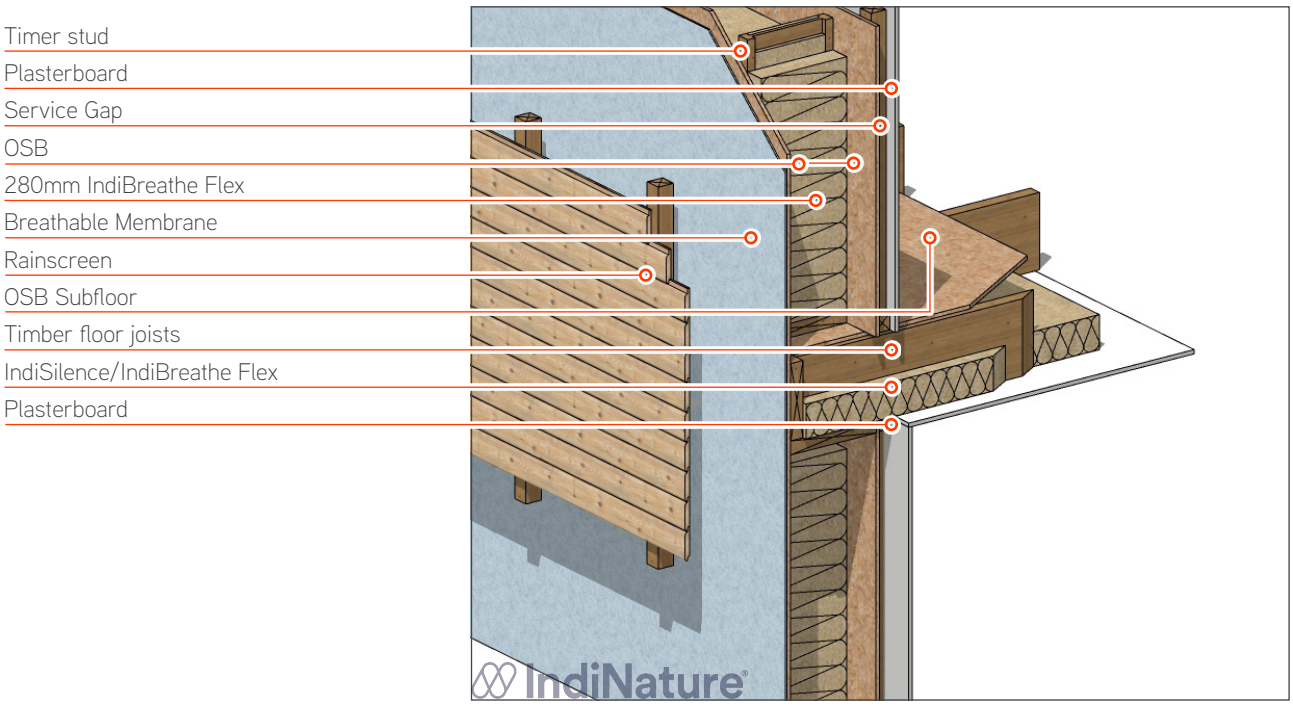
Conventional timber frame house foundation, using concrete strip, and a suspended floor with a crawl space

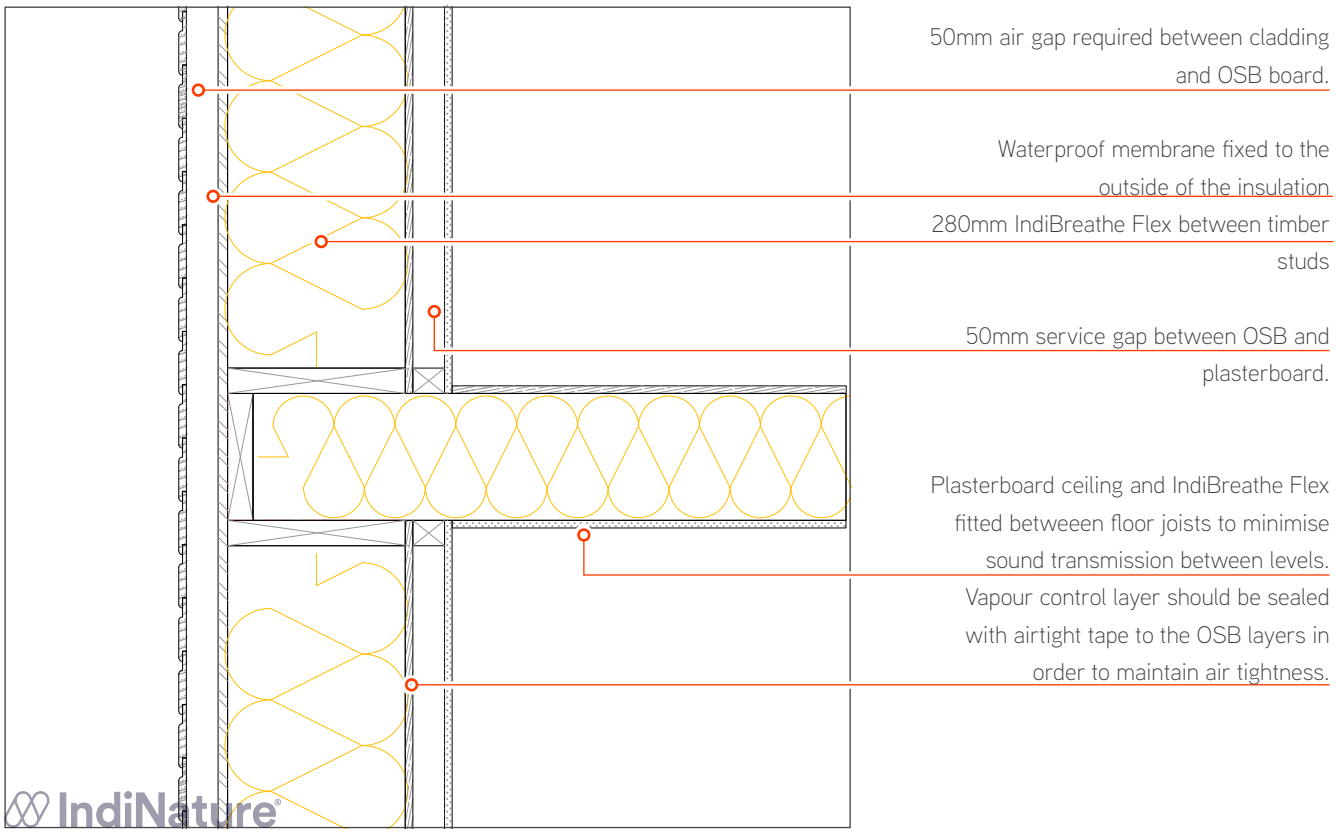




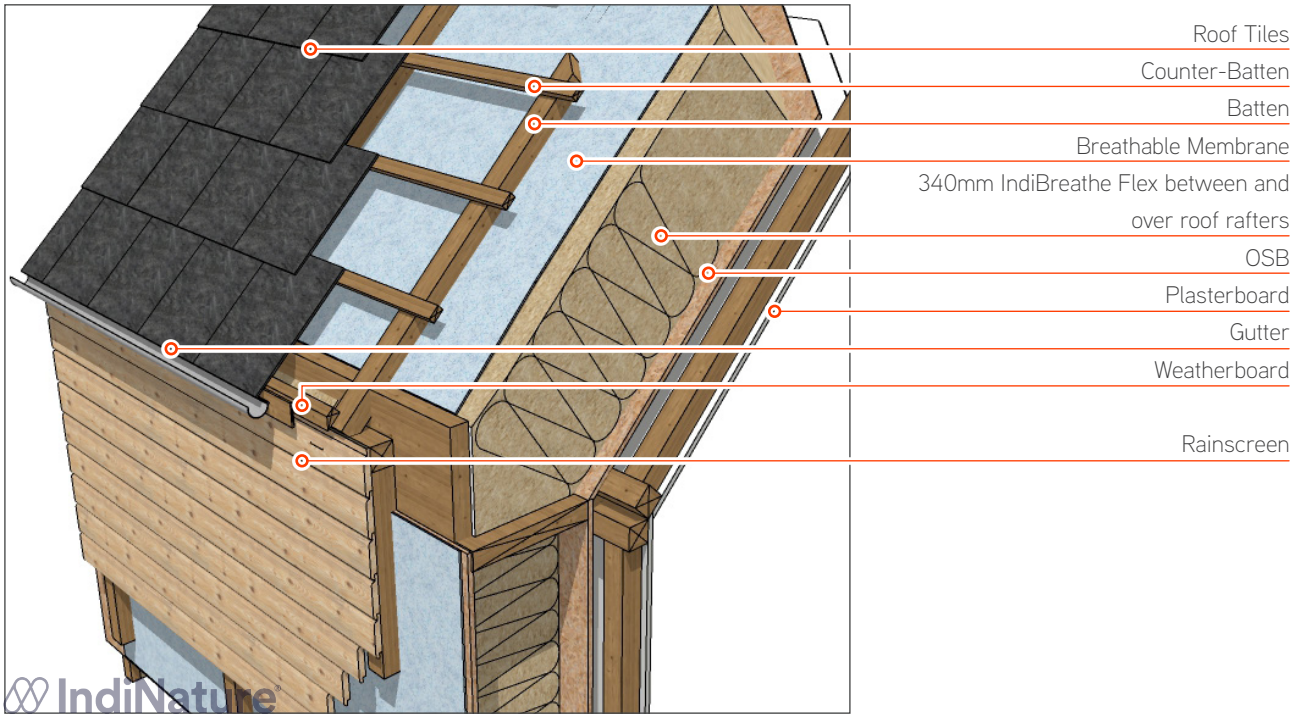
1.3 Intermediate Floor

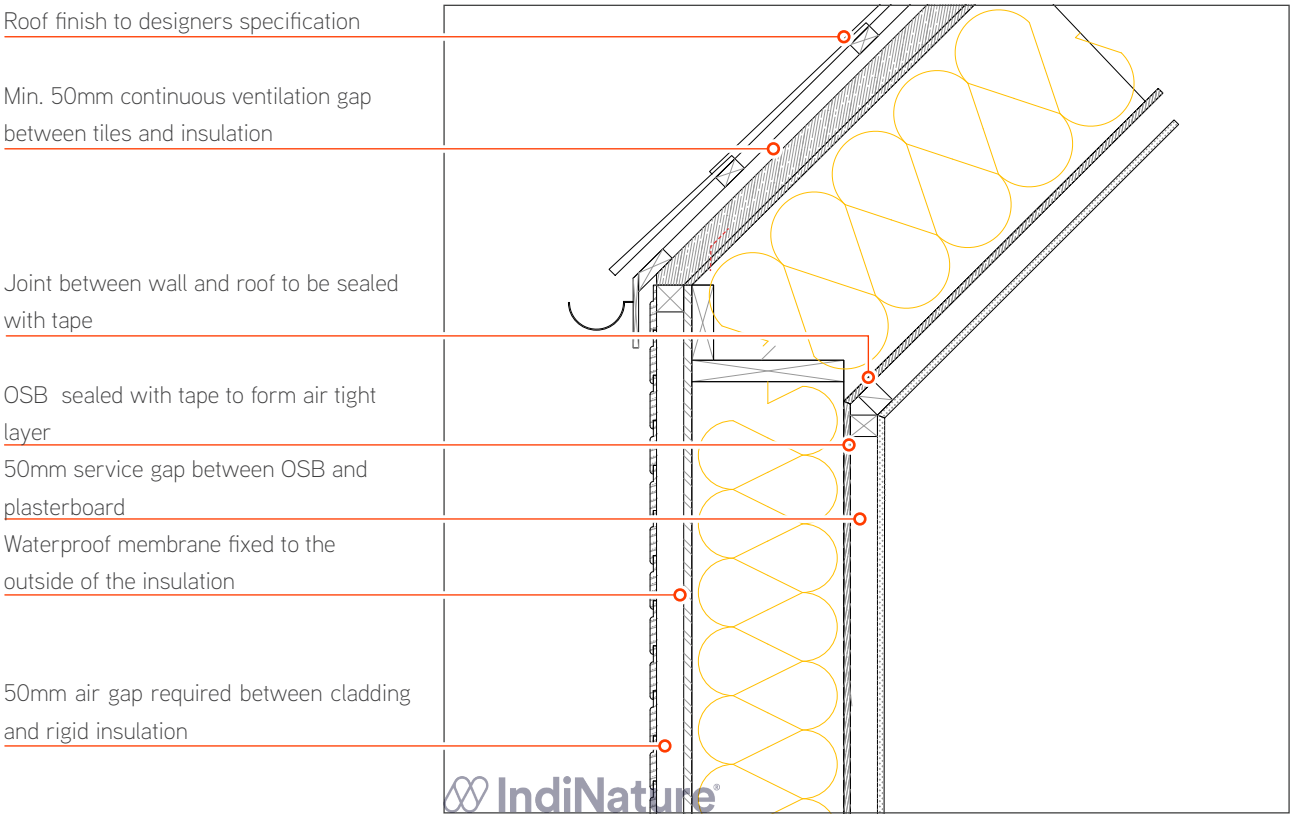
Insualting and sealing around an intermediate floor





Insulating the roof to create a warm loft space



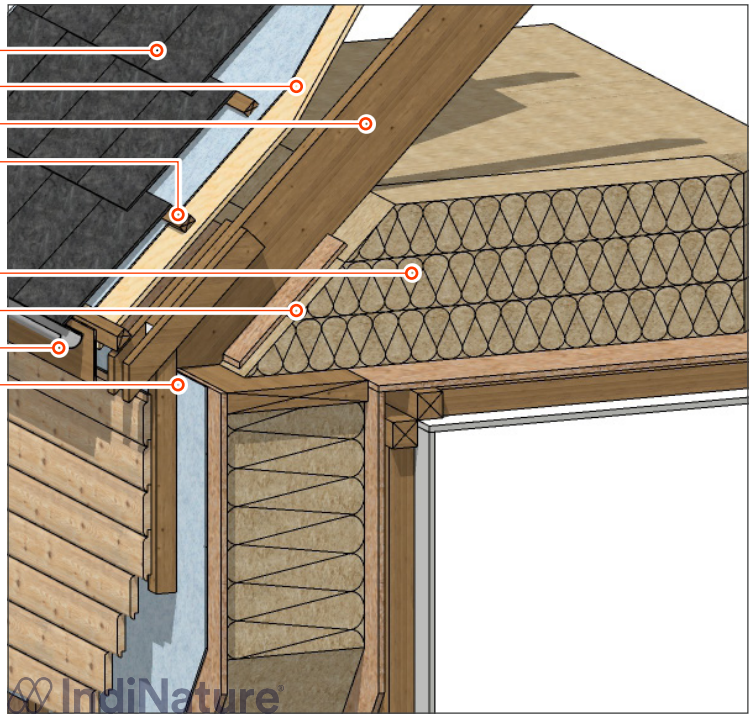


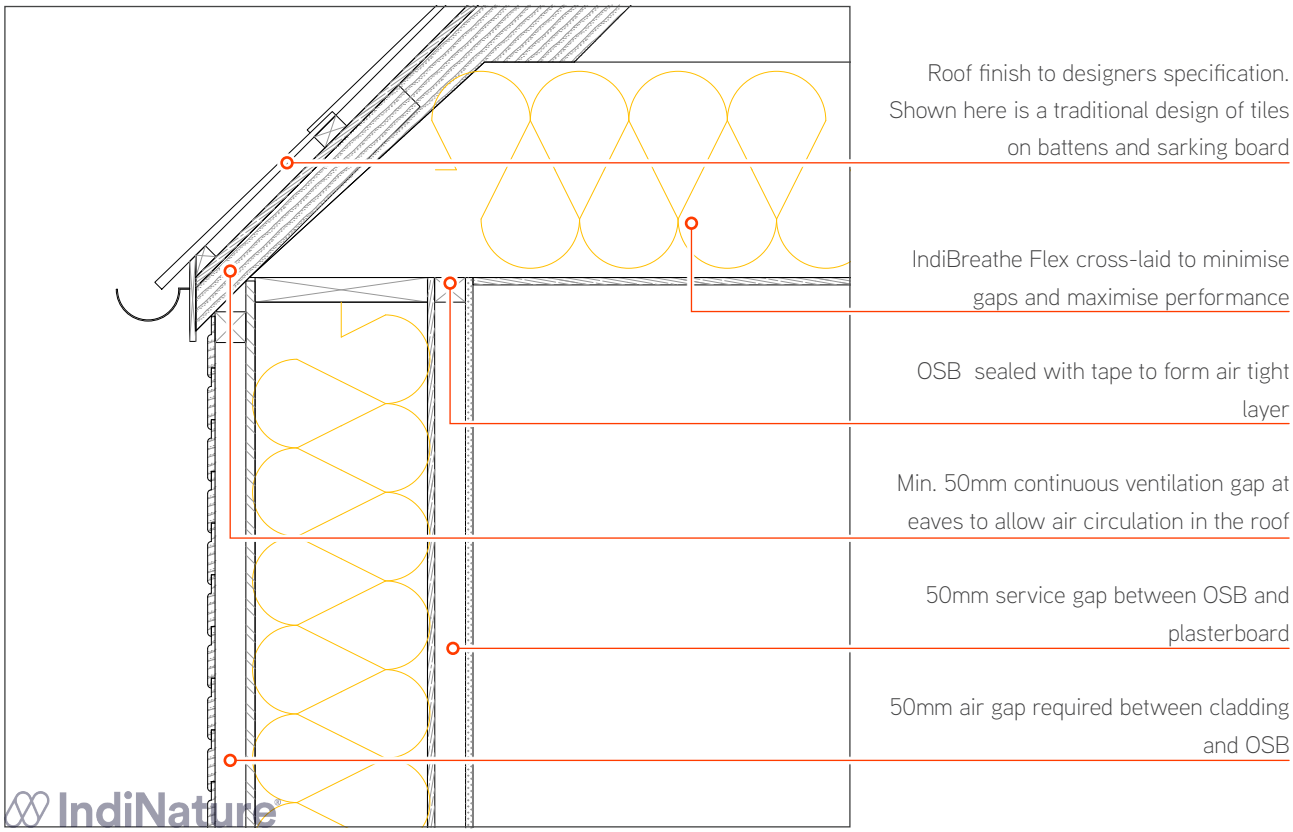
1.5 Insulating the roof to create a cold loft space

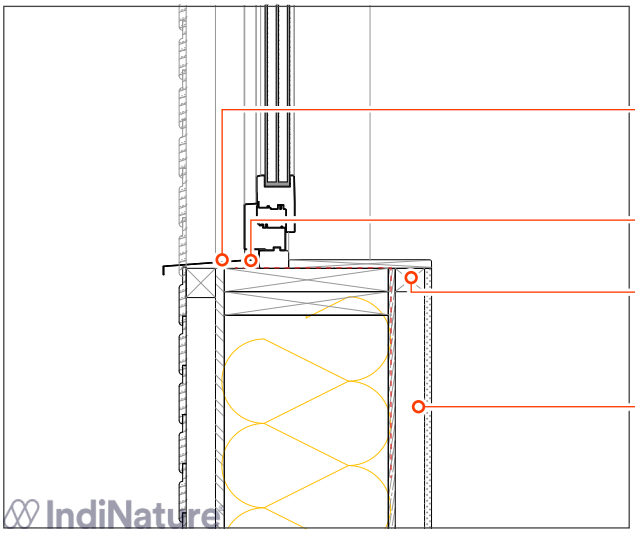
Loft - Cold Roof

Roof Tiles
Sarking Board
Roof Joists
Tile Batten

330mm IndiBreathe Flex
OSB
Gutter
Breathable Membrane







Window Sill

Double sided tape to externally seal insulation to window sill

Silicone sealed sill fixings

Airtight membrane taped to OSB to maintain airtight layer

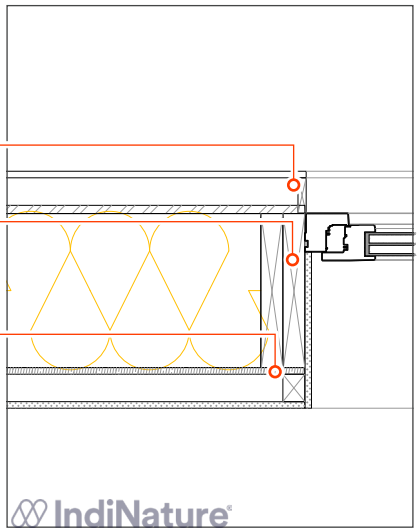
50mm service gap between OSB and plasterboard

Window Jamb

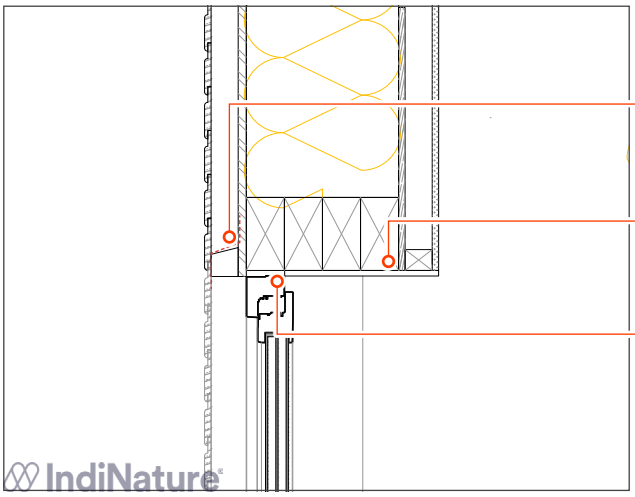
Timber board matching cladding to protect the wall insulation

Expanding foam to fully fill shim space

Airtight membrane taped to OSB to maintain airtight layer



Window Head



Breathable DPM membrane drip fixed to 25mm x 50mm batten

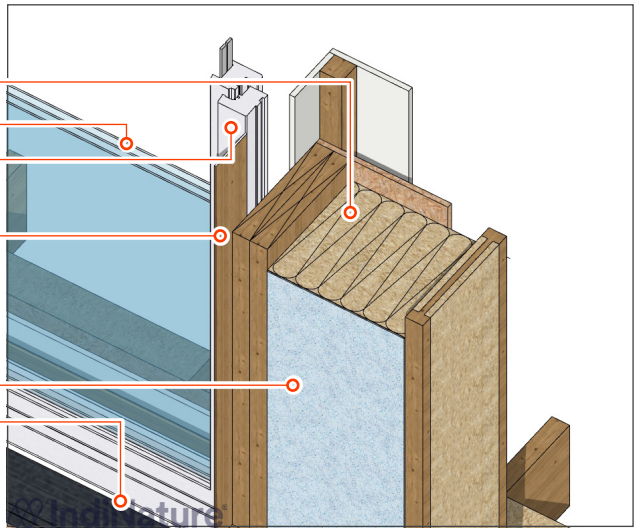
Airtight membrane taped to OSB to maintain airtight layer

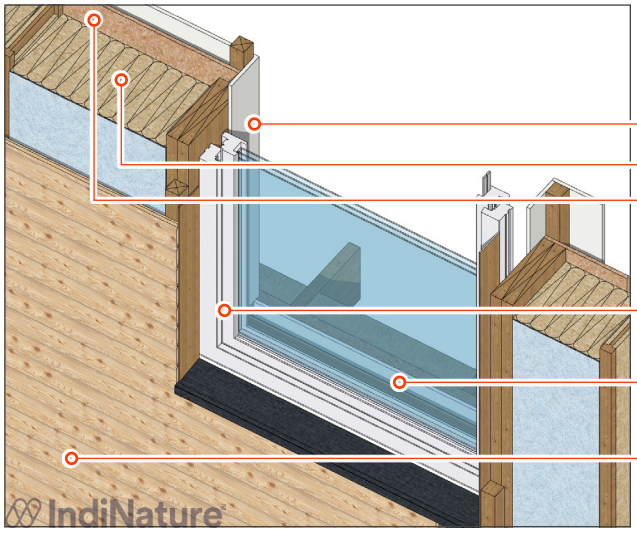
Expanding foam to fully fill shim space

Insulating and sealing around window openings

Window Sill

IndiBreathe Flex
Triple Glazing
Window Frame
Silicone Sealed Fixing
Taped Breathable Membrane
Aluminium Sill



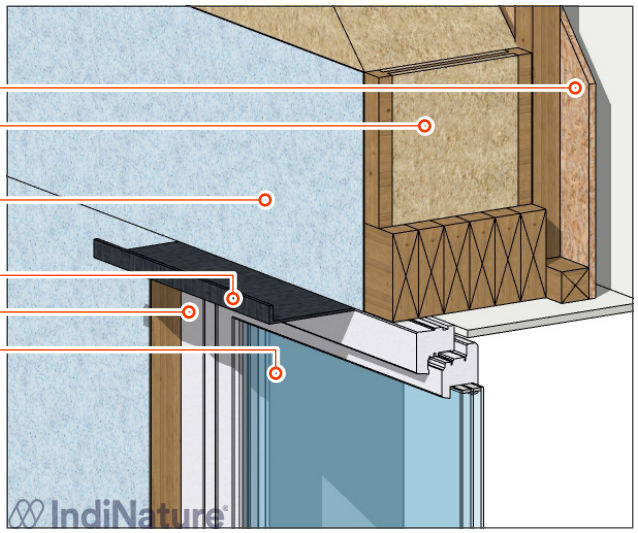


Window Jamb

Plasterboard
IndiBreathe Flex
OSB
Window Frame
Triple Glazing
Timber Cladding

Window Head

OSB
IndiBreathe Flex
Breathable Membrane
Aluminium window head
Window Frame
Triple Glazing



Equipment: Product Cutting guide

IndiNature's products can be cut to size using a number different tools.
This sheet provides guidance and examples of recommended tools for cutting easily and quickly. Other tools are available.

Bahco Insulation Specific Hand Saw & Knife
Bahco manufacture a hand saw with 'wave-formed' blade which are specifically designed to cut insulation and is preferable to dulled hand saws while still being and inexpensive solution. This saw can easily be found in online trade stores.

Maintenance: blade sharpener supplied separately and recommended before each installation. Silica in the hemp will dull blades over time.

DeWalt Cordless Alligator Saw
DeWalt manufacture a cordless saw capable of cutting a range of materials. This solution is a more expensive one, but is worth considering for larger projects or tradesmen who will be working frequently with insulation materials. This tool can easily be found in online trade stores.

Festool Cordless Insulation Saw
The Festool Insulation Material saw is specifically designed for cutting insulation materials quickly, with minimal effort, and maximum precision. It can be bought with a range of quides and accessories to ensure a precise cutting. It is much more compact than the DeWalt alligator saw which increases its convenience in both transport and use. It is the most expensive tool on this list, and as such we would only recommend this for very large projects or trade use.

End cutting

Product widths are designed to fit 400, 470 & 600 joists for tight friction fit.

If cutting the edge or end of a flexi-batt:

- **Less than 20mm** – No need to cut. The material should compress for a good friction fit.
- **Up to 50mm** – draw a line or compress with timber board on top of the batt and cut along the edge to help accuracy and avoid an uneven cut.

For over 20 years, Ecological Building Systems has been at the forefront of environmental and sustainable building products supplying a range of innovative airtightness solutions and natural insulations backed up with expert technical support.

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