4 Timber Frame New Build - England

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

Product information section:

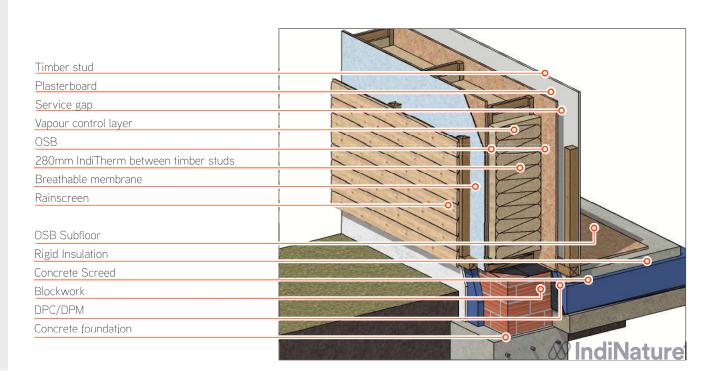
All IndiNature products are easy to handle, cut and install. Care should be taken to make sure all material friction fits between timber studs so as to minimise any air gaps. Product should be installed in a clean, dry condition in a dry application and not be left permanently exposed to the elements.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

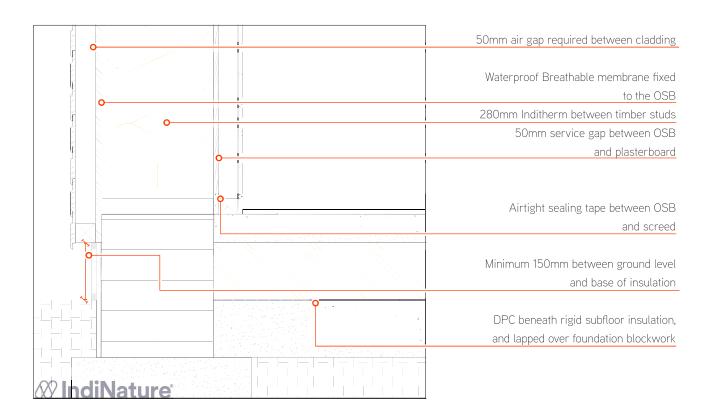
Contents

- 4.1 Foundation
- 4.2 Foundation, Suspended Floor
- 4.3 Intermediate Floor
- 4.4 Warm Roof
- 4.5 Cold Roof
- 4.6 Window, Sil, Jamb, Head

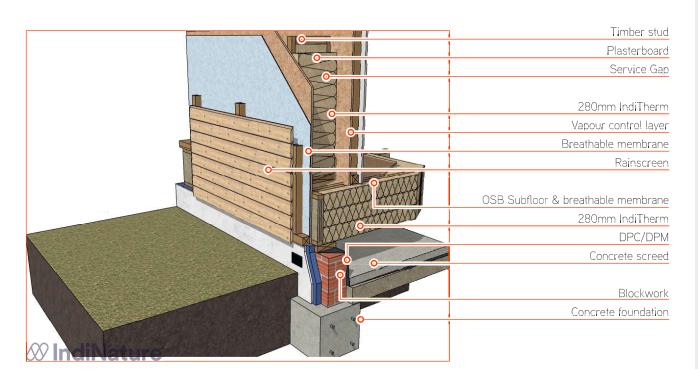


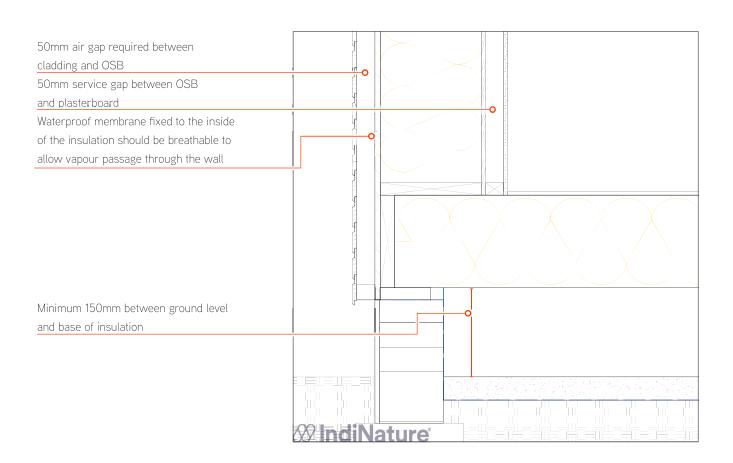
4 .1 Conventional timber frame house foundation, using concrete strips and a solid slab floor



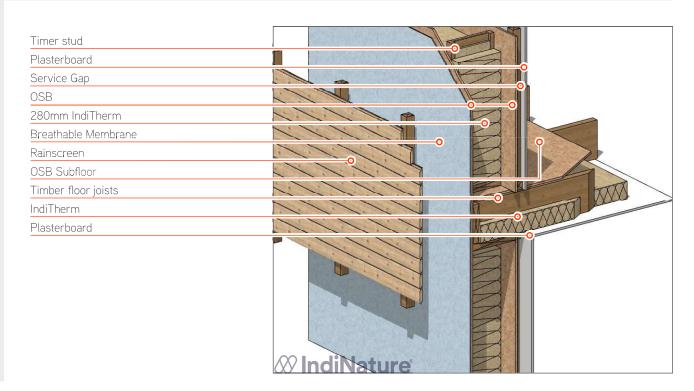


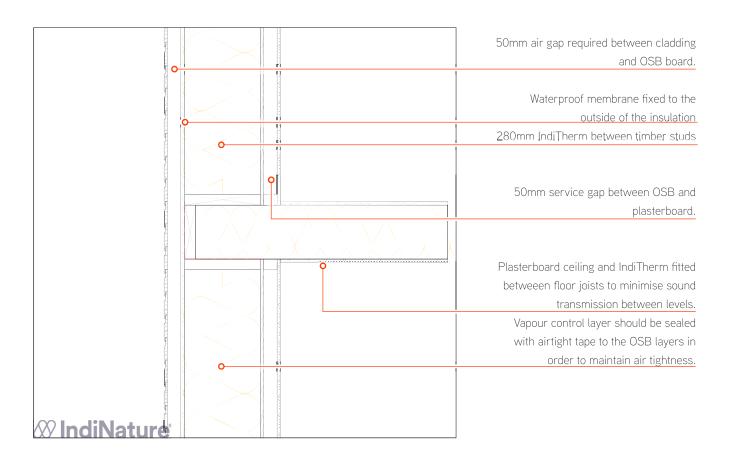
Conventional timber frame house foundation, using concrete strip, and a suspended floor with a crawl space



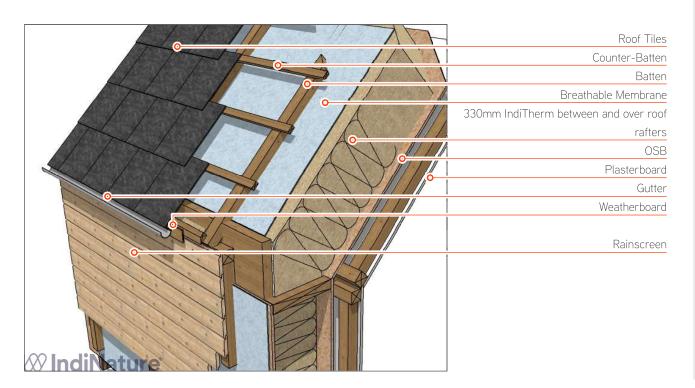


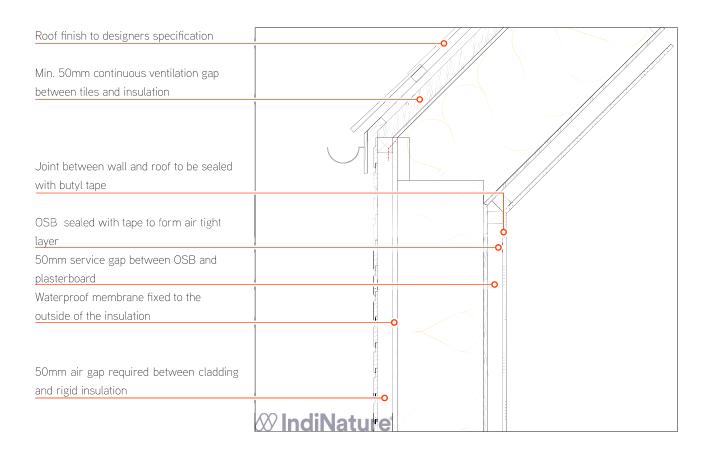
4.3 Insualting and sealing around an intermediate floor



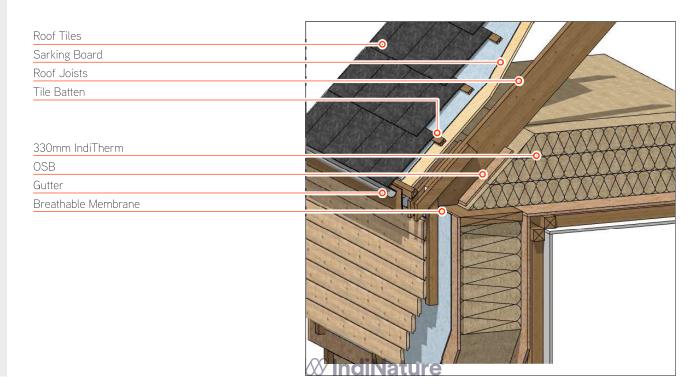


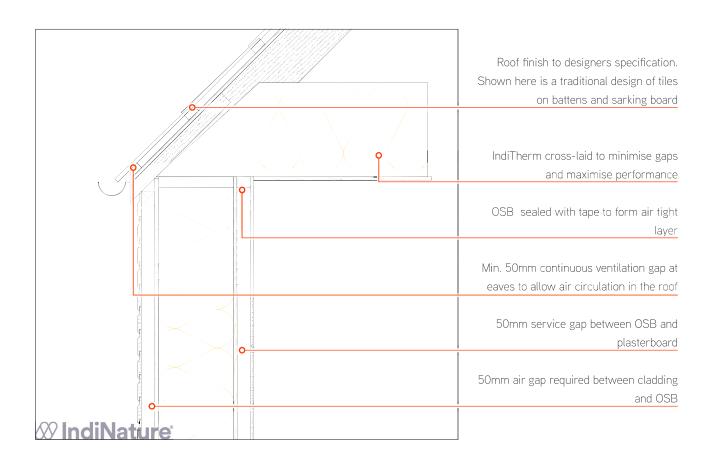
Insulating the roof to create a warm loft space





Insulating the roof to create a cold loft space







Insulating and sealing around window openings

Window Sill

Double sided tape to externally seal insulation to window sill

Silicone sealed sill fixings

Airtight membrane taped to OSB to maintain airtight laver

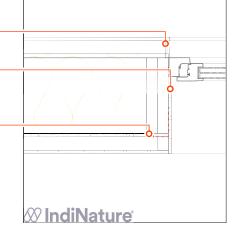
50mm service gap between OSB and plasterboard

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

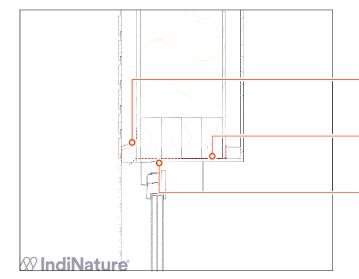


Window Head

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

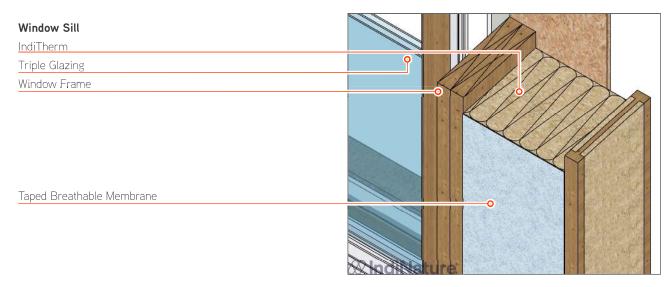
> Airtight membrane taped to OSB to maintain airtight layer

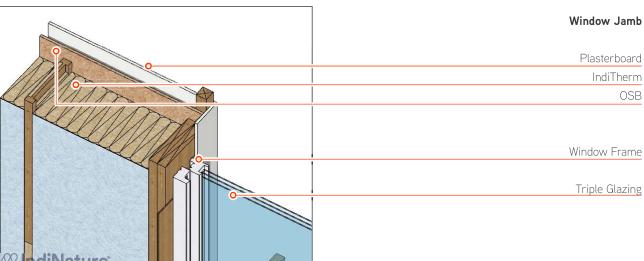
Expanding foam to fully fill shim space

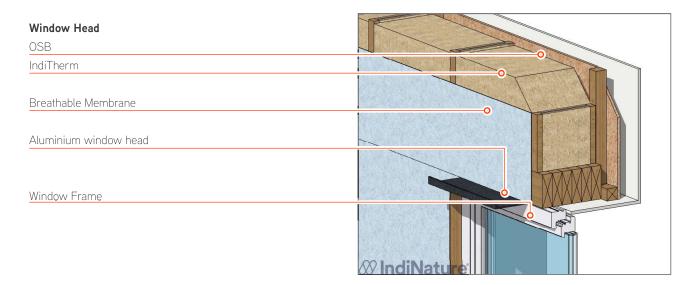




Insulating and sealing around window openings





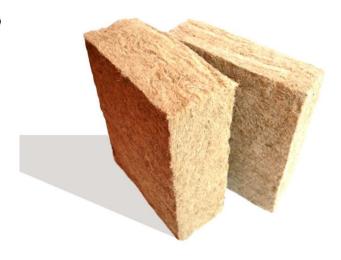


IndiTherm

Product Cutting Tools

IndiTherm natural fibre insulation batts can be cut to size using a number of different tools.

This sheet provides guidance and examples of recommended tools for cutting IndiTherm easily and quickly. Other tools are available.



Bahco Insulation Specific Hand Saw

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



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 at online trade stores.



Festool Cordless Insulation Saw

The Festool Insulation Material Saw is specifically design for cutting insulation materials quickly, with minimal effort, and maximum precision. It can be bought with a range of guides 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.

