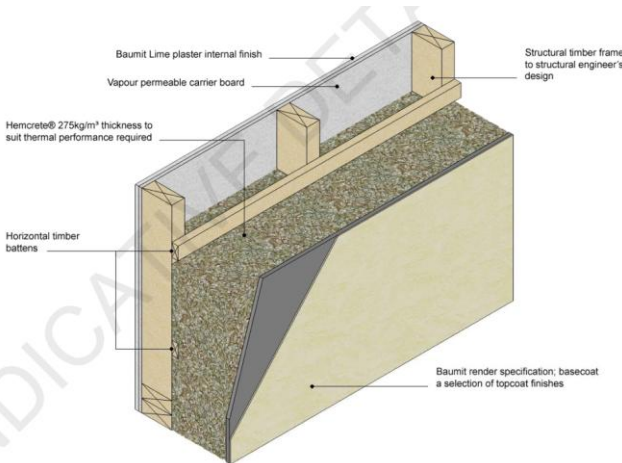


Guidance notes for timber frame design with Tradical® Hemcrete®.



This guide is to read in conjunction with the AKS Ward guide to determine the structural requirements.

Design in accordance with current British standards, Building Regulations, TRADA and UKTFA Guidance as deemed necessary.

A standard timber frame for Tradical® Hemcrete® has the frame on the inside of the wall with a racking board of 9mm Multi-pro XS on the INSIDE face.

The thickness of the Tradical® Hemcrete® does not relate to the width of the timber studs – thickness relates to the U-value of the wall. Studs can be 89 x

38mm for a 300mm thick Tradical® Hemcrete® wall, with studs centres being a function of wind and supported floor loading i.e. as either gets greater, then the stud centres close. This is a structural engineering function not related to the Tradical® Hemcrete®, hence the responsibility of the Project Engineer. Taller walls and more exposed locations will require deeper / wider studs and/or closer centres. Tradical® Hemcrete® is an insulation which restrains the timber frame – it is not load bearing.

The door / windows normally sit outside the line of the timber frame and are fixed back to the frame with brackets.

Door / window openings should be 5mm larger than the proposed frame size on the cill and sides or to the manufacturer's recommendations, whichever is the greater. The head should 25mm taller than the window frame on the top to allow for a permanent soffit shutter to the Tradical® Hemcrete®.

Horizontal noggins should be avoided and preferably omitted, or minimised in the frame. Tradical® Hemcrete® provides the similar function of stabilising an unbound length which buckles about minor axis.

Nails should be galvanised, or stainless steel.

Any structural metal brackets or strapping should be stainless steel or painted with red oxide or black bitumen.

Engineered timber joists should be used for the floors.

Gable ladders should be fitter AFTER the Tradical® Hemcrete® has been installed.

Review of the panel drawings may reveal areas (such as thin columns between full height windows) where Tradical® Hemcrete® may not be the most practical solution. Wood wool boards (such as Heraklith) may be of assistance in these situations where the work of shuttering is not worth the volume contained and the slender section maybe damage prone – see photograph.

