

Certificate No: C4TM – 001447 vs. 0 Issued: Saturday 27 April 2013

E13

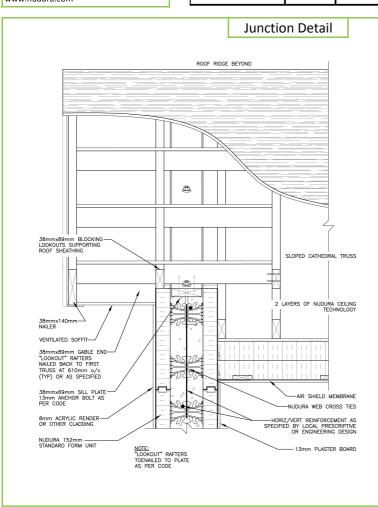
Issued to: Jean-Marc Bouvier Nudura

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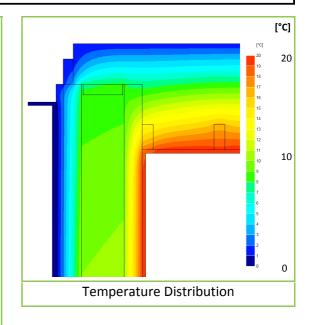
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General Construction	Main/Load Beaing::	152mm (nominal) Dense Concrete Core, λ<=2.00	
Specification: (see detail below for full construction)	Insulation:	2x 67mm layers of EPS + exterior extra 25mm , λ = 0.036	
	Roof:	375mm MW @ joists	
	Cladding:	9mm of Render OR 102mm Brick OR other Cladding	
Description:	PHPP only, ICF Wall, Gable @ Rafters, Minimum Roof U-value 0.1		

Gable @ Rafters + 25mm extra EPS



Reference:



Linear Thermal Transmittance W/m.K	
Ψ=	-0.038

Temperature Factor³ for Humidity and Mould f = 0.928

Calculation Prepared By: Matthew Wright MA Physics (Oxon) PGCE

Notes: Calculated for Passive House calculations only, not to be used for UK Building Regs & SAP

- 1. Ψ and f are only valid for the detail drawn and described above.
- The Ψ and f quoted are considered valid for U-value(s) Wall<= 0.21 Roof>= 0.11 W/m².K, (allowance of +/- 20%, following the present guidance from B. Anderson, BRE, correspondence dated 24/02/2012, for the UK market). The use of different claddings may affect the U-value slightly, but will have no material impact on the calculated values used here, in this case.
- 3. In dwellings, UK regulations stipulate that a temperature factor *f* that is >0.75 would avoid the risk of mould growth. For other nations, jurisdictions and climates, please consult the local building regulations that apply for avoiding mould and condensation. (For example, typical requirements may be: Netherlands: 0.65; Switzerland: 0.75; Belgium: 0.7; Germany: 0.7; Finland: 0.87. *French, German and other standards often do not indicate a single number for acceptable risk, but are dependent on circumstances*.)
- 4. Calculations have been performed in accordance with:
 - EN ISO 10211_2007 (British Standards)
 - IP 1/06 & BR497 (BRE Press)

and with reference to the following publications:

EN ISO 6946 (British Standards)

BR443 (BRE Press)

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