

Certificate No: C4TM – 001514 vs. 0 Issued: Saturday 27 April 2013

E12

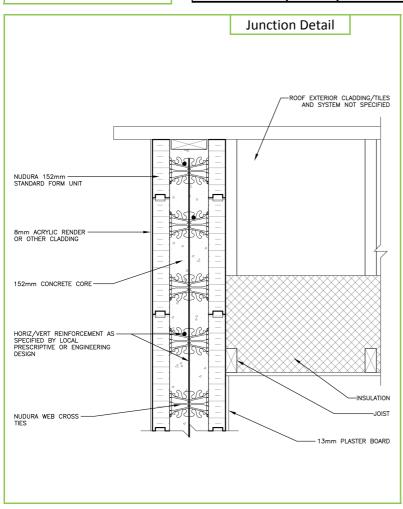
Issued to: Jean-Marc Bouvier Nudura

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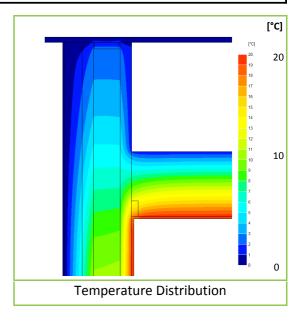
Tel: Mob +44 (0) 7766 118711 Email: jmb@nudura.com www.nudura.com

General Construction Specification: (see detail below for full construction)	Main/Load Beaing::	152mm (nominal) Dense Concrete Core, λ<=2.00
	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 @ Ceiling, Minimum Roof U-value 0.1		

Gable @ Ceiling + 102mm extra EPS



Reference:



Linear Thermal Transmittance W/m.K	
Ψ=	0.025

Temperature Factor³ for Humidity and Mould f = 0.923

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.
- 2. The Ψ and f quoted are considered valid for U-value(s) **Wall<= 0.145 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)

C4Ci Ltd 2 Long Barn Tufton Warren Whitchurch Hampshire RG28 7RH UK

Tel / Fax: +44 (0) 1256 892211 email: info@C4Ci.eu