

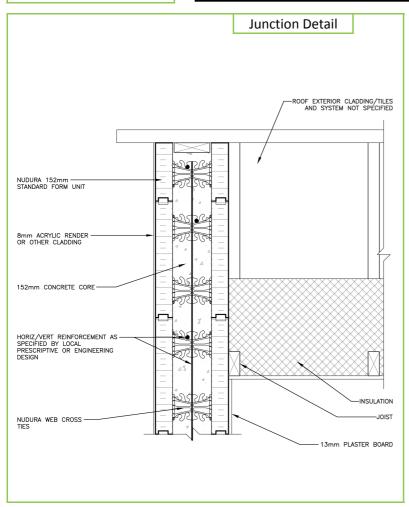
Certificate No: C4TM – 001429 vs. 0 Issued: Saturday 27 April 2013

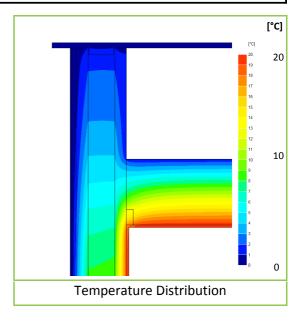
Issued to: Jean-Marc Bouvier Nudura

NUDURA Corporation International Sales & Field Support

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

Reference:	E12	E12 Gable @ Ceiling + 25mm extra EPS	
Description:	ICF Wall, Gable @ Ceiling, Minimum Roof U-value 0.1		
	Claddi	ng:	9mm of Render OR 102mm Brick OR other Cladding
full construction)	Roof:		375mm MW @ joists
Specification: (see detail below for	Insulat	ion:	2x 67mm layers of EPS + exterior extra 25mm , λ = 0.036
General Constructio	n Main/	Load Beaing::	152mm (nominal) Dense Concrete Core, λ<=2.00





Linear Thermal Transmittance W/m.K		
Ψ=	0.093	

Temperature Factor³ for Humidity and Mould f = 0.914

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

Notes: Calculation based upon internal heat loss areas, applicable in UK Building Regulations and SAP calculations.

- 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<= 0.21 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)

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

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