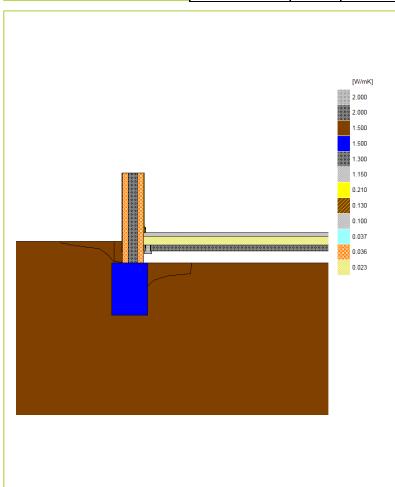
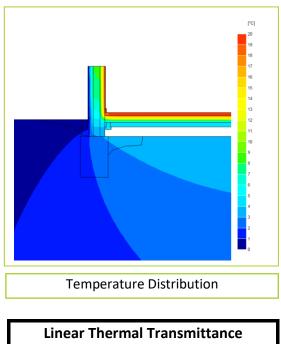


Certificate No:	WRTM - 000068 vs. 0			Issued:	29 August 2019
Issued to: Jean-Marc Bouvier	General	Main/Load-bearing:		152mm (nomina	al) Dense Concrete Core, λ <= 2.50
	Construction Specification:	Insulation:		2x 102mm layer	rs of EPS, λ = 0.036
Nudura Corporation	(see detail below for full construction)	Ground Floor:		Beam and Block, 150mm PUR/PIR	
International Sales & Field Support		Cladding:		9mm of Render OR 102mm Brick OR other Cladding	
Tel: Mob +44 (0) 7766 118711	Description:	Description: ICF Wall, Gnd Floor, Beam and Block or Ground Bearing			
Email: jmb@nudura.com www.nudura.com	Reference:	E5	Ground Floor, Standard Wall		





W/m.K				
Ψ=	0.080			
Temperature Factor ³ for Humidity and				
Mould				
f=	0.941			

Calculation Prepared By: Trefor Jones

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 U = 0.16 W/m2.K +/- 10% (external brick with cavity U = 0.159, thin render U = 0.167), Ground Floor>= 0.13 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, other standards may apply. E.g. 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)