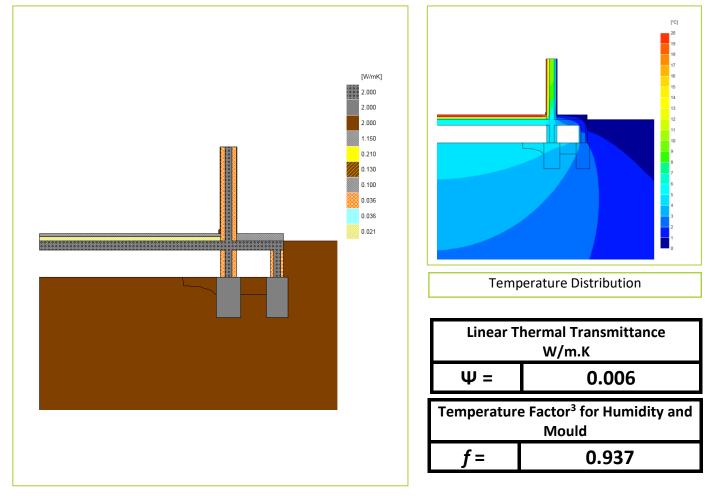


Certificate No:	WRTM – 000107 vs. 0 PHPP			Issued:	29 August 2019
Issued to: Jean-Marc Bouvier	General	Main/Load-bearing:		152mm (nominal) Dense Concrete Core, $\lambda$ <= 2.50	
	Construction Specification: (see detail below for full construction)	Insulation:		2x 102mm layers of EPS, λ = 0.036	
Nudura Corporation		Concrete Flooring:		Cast in situ, 6mm acoustic mat	
International Sales & Field Support		Cladding:		9mm of Render OR 102mm Brick OR other Cladding	
Tel: Mob +44 (0) 7766 118711 Email: jmb@nudura.com www.nudura.com	Description:	Concrete Groundfloor with insulation above (100mm, R=4.65) and concrete screed			
	Reference:	E5	Ground floor		



## Calculation Prepared By:

**Trefor Jones** 

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

1.  $\Psi$  and f are only valid for the detail drawn and described above.

2. The  $\Psi$  and f quoted are considered valid for U-value(s) Wall U = 0.16 W/m<sup>2</sup>.K +/- 10% (external brick with cavity U = 0.159, thin render U = 0.167), Ground Floor>= 0.13 W/m<sup>2</sup>.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)

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