Certificate No:	*WRTM – 000074 vs. 0*	Issued:	29 August 2019

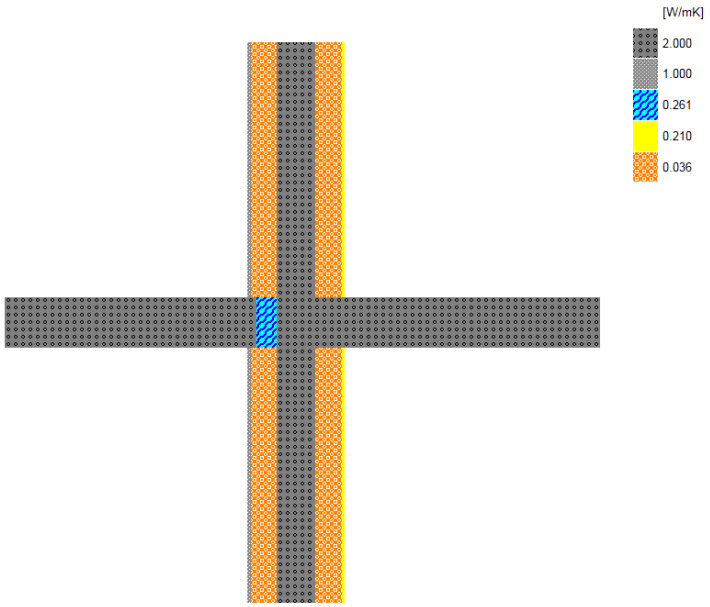
Issued to: Jean-Marc Bouvier

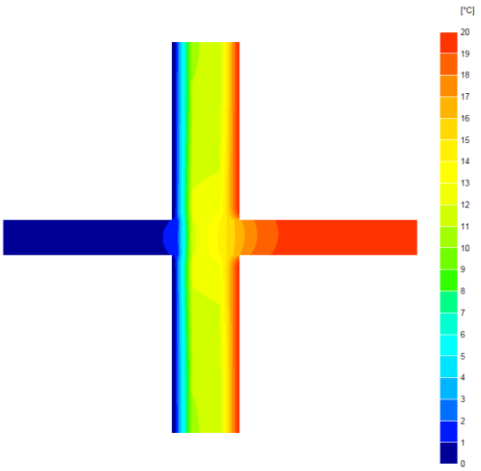
Nudura Corporation
International Sales & Field Support

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

General Construction Specification: (see detail below for full construction)	Main/Load-bearing:	152mm (nominal) Dense Concrete Core, λ <= 2.50
	Insulation:	2x 102mm layers of EPS, λ = 0.036
	Balcony:	Cast-in-situ and continuous with internal floor
	Thermal Break:	80mm in line with external insulation, equivalent λ = 0.261 W/K.m

Description:	**ICF Wall, Balcony_TBreak**	
Reference:	**E8**	**Balcony, within dwelling, with thermal break, Standard Wall**





Temperature Distribution

Linear Thermal Transmittance W/m.K	
Ψ =	**0.348**

Temperature Factor[3] for Humidity and Mould	
***f* =**	**0.842**

Calculation Prepared By: Trefor Jones

Notes:

1. Ψ and *f* are only valid for the detail drawn and described above.
2. U-values are within the ranges of; for the flanking walls U = 0.16 W/m².K +/- 10% (external brick with cavity U = 0.159, thin render U = 0.167).
3. In dwellings, 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)*