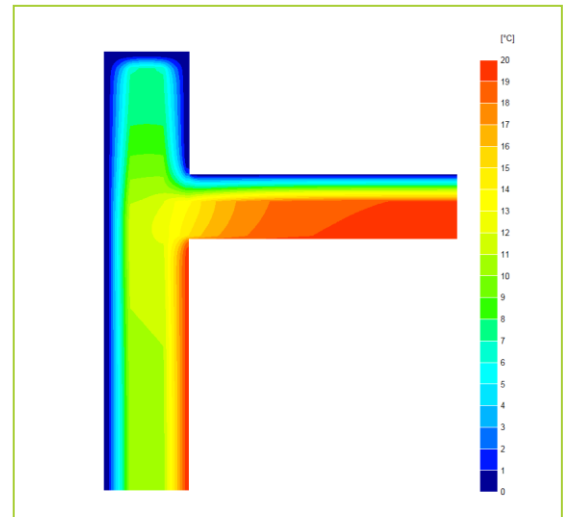
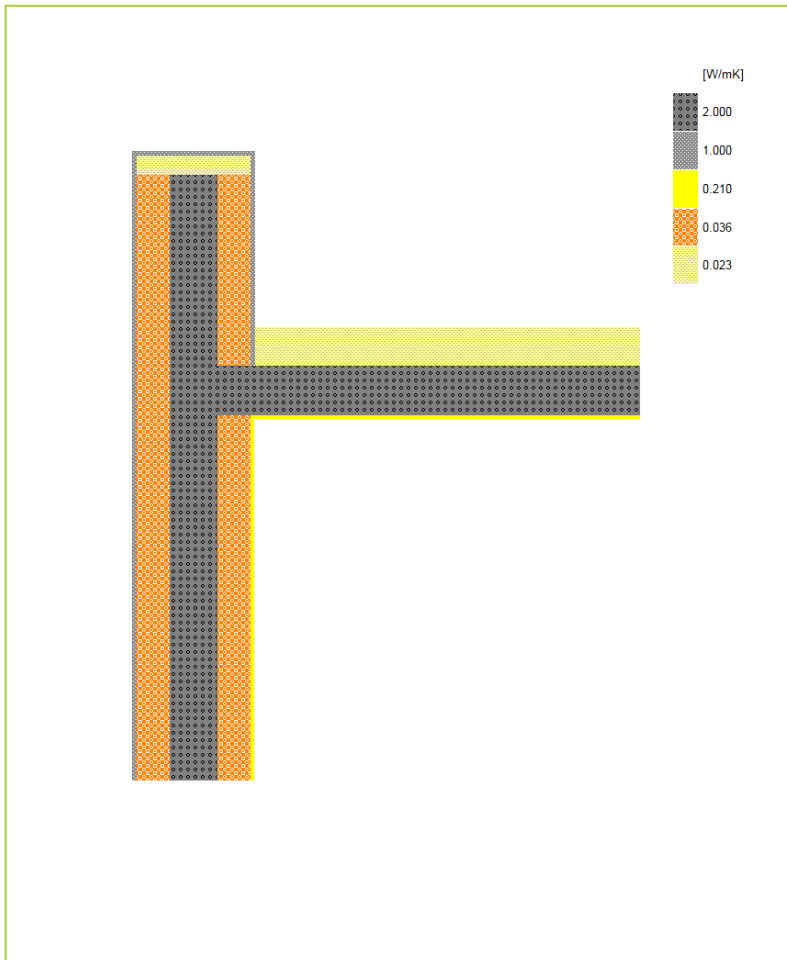


Certificate No:	WRTM – 000086 vs. 0		Issued:	29 August 2019
Issued to: <i>Jean-Marc Bouvier</i> Nudura Corporation International Sales & Field Support Tel: Mob +44 (0) 7766 118711 Email: jmb@nudura.com www.nudura.com	General Construction Specification: (see detail below for full construction)	Main/Load-bearing:	152mm (nominal) Dense Concrete Core, $\lambda \leq 2.50$	
		Insulation:	2x 102mm layers of EPS, $\lambda = 0.036$	
		Roof Terrace:	Cast in situ, 6mm acoustic mat, 75mm MW with ceiling below	
			Cladding:	9mm of Render OR 102mm Brick OR other Cladding
	Description:	Upper floor as flat roof with sealing – 20cm concrete + 12cm insulation R = 5.2		
	Reference:	E15	Flat roof with parapet	



Temperature Distribution

Linear Thermal Transmittance W/m.K	
$\Psi =$	0.309
Temperature Factor ³ for Humidity and Mould	
$f =$	0.848

Calculation Prepared By: Trefor Jones

- Notes:**
- Ψ and f are only valid for the detail drawn and described above.
 - U-values are within the ranges of; for the flanking walls $U = 0.16 \text{ W/m}^2\cdot\text{K}$ +/- 10% (external brick with cavity $U = 0.159$, thin render $U = 0.167$).
 - 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.
 - 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)