

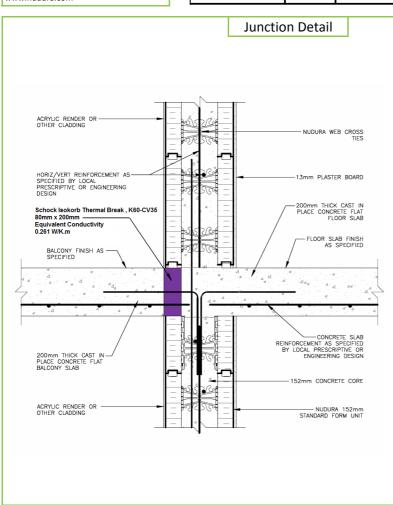
Certificate No: *C4TM - 001570 vs. 0* Issued: Monday 10 June 2013

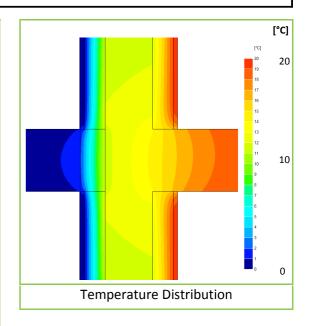
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General Construction Specification: (see detail below for full construction)		Main/Load Beaing::		152mm (nominal) Dense Concrete Core, λ<=2.00	
		Insulation:		2x 67mm layers of EPS, λ = 0.036	
		Balcony:		Cast-in-situ and continuous with internal floor	
		Thermal Break:		80mm in line with external insulation, equivalent λ = 0.261 W/K.m	
Description:	IC	CF Wall, Balcony_TBreak			
Reference:	Εŧ	8	Balcony, w	rithin dwelling, with thermal break, Standard Wall	





Linear Thermal Transmittance W/m.K		
Ψ=	0.336	

Temperature Factor ³ for Humidity and				
Mould				
<i>f</i> =	0.829			

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.

The Schöck Isokorb concrete/concrete balcony thermal break has been used. Representative worst case fixing chosen, implying balcony not to exceed 2.25m / maximum penetrating steel bars K60-CV35 fixing pattern, fire rating F90. Refer to Schöck Isokorb Technical Manual, equivalent conductivity tables.

- 1. Ψ and f are only valid for the detail drawn and described above.
- The Ψ and f quoted are considered valid for U-value(s) Wall<= 0.248 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)

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