

Ravago Building Solutions UK Ltd

Estuary Road Kings Lynn Norfolk PE30 2JD

technical.uk.rbs@ravago.com

Project Inforn Reference	nation PROJECT 24029 - 19 Eebruary 2024	E12022423					
Client	Lisa Trewin Diector R-Wall Ltd	Project	External Wall				
Tel: Email:	01288377337 lisa@r-wall.co.uk						
Construction Type Element : Wall - External Wall 1							
Internal surface emissivity . Figh		ign	Thickness	Thermal	. nign Thermal	Pitch	Bridge details
				Conductivity	Resistance	(°)	Air gaps
			(mm)	(W/mK)	(m²K/W)	()	(Level, Delta U")
Outside surface resistance			-	-	0.040		
Hardwood Cladding			18.0	0.180	0.100		
Airspace, heat flow horizontal, 25 mm thick			25.0	-	0.180		
Ravatherm XPS X 300 SB			150.0	0.031	4.839		L:0 0.000W/m ² K
Medium density (2200 kg/m3) concrete			159.0	1.650	0.096		
Ravatherm XPS X 300 SB			100.0	0.031	3.226		L:0 0.000W/m ² K
Airspace, heat flow horizontal, 25 mm thick			25.0	-	0.180		
Gyproc Wallboard			12.5	0.190	0.066		
Plaster skim			3.0	0.400	0.007		
Inside surface resistance			-	-	0.130		

Total thickness

U-value = 0.11*W*/*m*²*K*

U-value, Combined Method : 0.113W/m²K (upper/lower limit 8.864 / 8.864m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

492.5mm

Correction factors

Air gaps, Delta Ug = 0.000W/m²K

JPA Designer Version 6.05.075 075

Page 1 of 1

© JPA Technical Literature Feb 2024

Licensed to Ravago Buildings Solutions UK Limited

C:\Users\darrend\OneDrive - RAVAGO\Documents\RAVAGO TECH DESK RESPONSES\RAVAGO TECH DESK RESPONSES 2024\02 FEBRUARY 2024\PROTECH DESK RESPONSES and the U-value calculation and Condensation Risk Analysis service is provided in good faith. However, since RAVAGO is a material supplier does not exercise any control over the data on which the calculations are based, users of this service are cautioned to determine that the information provided to RAVAGO is correct. The service is advisory only. No responsibility is accepted by RAVAGO for any system application or use to which the calculation may be put. RAVAGO obligations in respect of any sale of its products are governed by the respective sales contract. Reference should be made to BS 5250, BS EN ISO 6946:2007, BR 443:2006, Approved Document L1A & L2A England (2013), Approved Document L1A & L2A Wales (2014), and Technical Handbook Section 6 Scotland (2015).