



**Project Information**

Reference PROJECT 24029 - E12022423  
Date 19 February 2024  
Client Lisa Trewin Project External Wall  
Director  
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**Construction Type**

Element : Wall - External Wall 1

	Internal surface emissivity	: High	External surface emissivity		: High	Pitch	Bridge details Air gaps (Level, Delta U")
			Thickness (mm)	Thermal Conductivity (W/mK)			
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 <sup>2</sup> K
Medium density (2200 kg/m <sup>3</sup> ) concrete			159.0	1.650	0.096		
Ravatherm XPS X 300 SB			100.0	0.031	3.226		L:0 0.000W/m <sup>2</sup> 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		
<b>Total thickness</b>			<b>492.5mm</b>				

**U-value = 0.11W/m<sup>2</sup>K**

U-value, Combined Method : 0.113W/m<sup>2</sup>K (upper/lower limit 8.864 / 8.864m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

**Correction factors**

Air gaps, Delta Ug = 0.000W/m<sup>2</sup>K