

U-values of building assemblies Passive House with PHPP Version 10.6 EN

/ Climate: PHPP-Standard / TFA: 0 m² / Overheating: % / PER: 0 kWh/(m²a) Show special cases and secondary calculations on the right ->

Description of building assembly		Assembly no.	
Business As Usual - Wall		01ud	
Orientation of building assembly (or R _{si})	2-Wall	Interior insulation?	
Adjacent to (or R _{se})	1-Outdoor air	U-value supplement [W/(m²K)]	
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]
1/2" Drywall	0.180		
5-1/2" Fibreglass batt insulation	0.054	2x6 framing @ 24" o.c.	0.130
1/2" OSB sheathing	0.130		
Percentage of sec. 1: 94%		Percentage of sec. 2: 6.3%	
Heat transmission resistance coefficients		Total thickness [cm]: 16.6	
Interior R _{si} :	0.13 m²K/W	U-value [W/(m²K)]: 0.365	
Exterior R _{se} :	0.04 m²K/W		

Description of building assembly		Assembly no.	
Business As Usual - Foundation		02ud	
Orientation of building assembly (or R _{si})	2-Wall	Interior insulation?	
Adjacent to (or R _{se})	2-Ground	U-value supplement [W/(m²K)]	
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]
1/2" Drywall	0.180		
5-1/2" Fibreglass batt insulation	0.054	2x6 framing @ 24 o.c.	0.130
1/2" Air gap	0.079		
8" Concrete foundation	2.300		
Percentage of sec. 1: 94%		Percentage of sec. 2: 6.3%	
Heat transmission resistance coefficients		Total thickness [cm]: 36.9	
Interior R _{si} :	0.13 m²K/W	U-value [W/(m²K)]: 0.350	
Exterior R _{se} :	0.00 m²K/W		

Description of building assembly		Assembly no.	
Business As Usual - Header		03ud	
Orientation of building assembly (or R _{si})	2-Wall	Interior insulation?	
Adjacent to (or R _{se})	1-Outdoor air	U-value supplement [W/(m²K)]	
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]
1/2" Drywall	0.180		
2-1/2" Fibreglass batt insulation	0.054		
3" Wood header	0.130		
1/2" OSB sheathing	0.130		
Percentage of sec. 1: 100%		Percentage of sec. 2: %	
Heat transmission resistance coefficients		Total thickness [cm]: 16.6	
Interior R _{si} :	0.13 m²K/W	U-value [W/(m²K)]: 0.473	
Exterior R _{se} :	0.04 m²K/W		

Description of building assembly		Assembly no.	
Business As Usual - Slab		04ud	
Orientation of building assembly (or R _{si})	3-Floor	Interior insulation?	
Adjacent to (or R _{se})	2-Ground	U-value supplement [W/(m²K)]	
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]
4" Concrete slab	2.300		
Percentage of sec. 1: 100%		Percentage of sec. 2: %	
Heat transmission resistance coefficients		Total thickness [cm]: 10.2	
Interior R _{si} :	0.17 m²K/W	U-value [W/(m²K)]: 4.665	
Exterior R _{se} :	0.00 m²K/W		

ASSEMBLY VALUES

	U - Value	R - Value	RSI
Wall Assembly	0.365	15.56	2.74
Foundation	0.350	16.22	2.857
Window Header	0.473	12.0	2.114
Slab	4.665	1.217	0.2144

NOTES:



Revisions

1.	
2.	
3.	

Notes

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