

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.
High Performance PolyCore - Wall						01ud
Orientation of building assembly (or R _{adj})		2-Wall	Interior insulation?			
Adjacent to (or R _{adj})		3-Ventilated	U-value supplement [W/(m²K)]			
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]	Area section 3 (optional)	λ [W/(mK)]	Thickness [mm]
1/2" Drywall	0.180					13
1/2" Drywall	0.180					13
3-1/2" EPS	0.036	2x4 steel stud @ 16" o.c.	50.000			89
9-1/2" EPS	0.036					241
1" EPS	0.036	1x1 steel stud @ 16" o.c.	50.000			25
Percentage of sec. 1:		100%	Percentage of sec. 2:	0.0%	Percentage of sec. 3:	
Heat transmission resistance coefficients						Total thickness [cm]: 38.1
Interior R _{adj} :		0.13	m²K/W			
Exterior R _{adj} :		0.13	m²K/W		U-value [W/(m²K)]: 0.099	

Description of building assembly						Assembly no.
High Performance PolyCore - Foundation						02ud
Orientation of building assembly (or R _{adj})		2-Wall	Interior insulation?			
Adjacent to (or R _{adj})		2-Ground	U-value supplement [W/(m²K)]			
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]	Area section 3 (optional)	λ [W/(mK)]	Thickness [mm]
1/2" Drywall	0.180					13
1/2" Drywall	0.180					13
3-1/2" EPS	0.036	2x4 steel stud @ 16" o.c.	50.000			89
3-1/2" EPS	0.036					89
1" EPS	0.036	1x1 steel stud @ 16" o.c.	50.000			25
Percentage of sec. 1:		100%	Percentage of sec. 2:	0.0%	Percentage of sec. 3:	
Heat transmission resistance coefficients						Total thickness [cm]: 22.9
Interior R _{adj} :		0.13	m²K/W			
Exterior R _{adj} :		0.00	m²K/W		U-value [W/(m²K)]: 0.175	

Description of building assembly						Assembly no.
High Performance PolyCore - Header						03ud
Orientation of building assembly (or R _{adj})		2-Wall	Interior insulation?			
Adjacent to (or R _{adj})		3-Ventilated	U-value supplement [W/(m²K)]			
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]	Area section 3 (optional)	λ [W/(mK)]	Thickness [mm]
1/2" Drywall	0.180					13
1/2" Drywall	0.180					13
3-1/2" EPS	0.036	2x4 steel stud @ 16" o.c.	50.000			89
9-1/2" EPS	0.036					241
1" EPS	0.036	1x1 steel stud @ 16" o.c.	50.000			25
Percentage of sec. 1:		100%	Percentage of sec. 2:	0.0%	Percentage of sec. 3:	
Heat transmission resistance coefficients						Total thickness [cm]: 38.1
Interior R _{adj} :		0.13	m²K/W			
Exterior R _{adj} :		0.13	m²K/W		U-value [W/(m²K)]: 0.099	

Description of building assembly						Assembly no.
High Performance PolyCore - Slab						04ud
Orientation of building assembly (or R _{adj})		3-Floor	Interior insulation?			
Adjacent to (or R _{adj})		2-Ground	U-value supplement [W/(m²K)]			
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]	Area section 3 (optional)	λ [W/(mK)]	Thickness [mm]
3/4" Plywood	0.130					19
2-1/2" EPS	0.036	2-1/2" steel stringer	50.000			64
3" EPS	0.036					76
Percentage of sec. 1:		100%	Percentage of sec. 2:	0.0%	Percentage of sec. 3:	
Heat transmission resistance coefficients						Total thickness [cm]: 15.9
Interior R _{adj} :		0.17	m²K/W			
Exterior R _{adj} :		0.00	m²K/W		U-value [W/(m²K)]: 0.244	

ASSEMBLY VALUES

	U - Value	R - Value	RSI
Wall Assembly	0.099	57.35	10.1
Foundation	0.175	32.45	5.714
Window Header	0.099	57.35	10.1
Slab	0.244	23.27	4.098

NOTES:



Revisions

1.	
2.	
3.	

Notes

1.	
2.	
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