

**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 Retrofit - Wall						01ud
Orientation of building assembly (or R <sub>si</sub> )		2-Wall				Interior insulation?
Adjacent to (or R <sub>se</sub> )		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
3-1/2" Fibreglass batt insulation	0.054	2x4 framing @ 24" o.c.	0.130			89
1/2" OSB sheathing	0.130					13
2" Rockwool ComfortBoard 80	0.033					51
2" Rockwool ComfortBoard 80	0.033					51
Percentage of sec. 1:						94%
Percentage of sec. 2:						6.3%
Percentage of sec. 3:						
Heat transmission resistance coefficients						<b>Total thickness [cm]: 21.7</b>
Interior R <sub>si</sub> :		0.13	m²K/W			
Exterior R <sub>se</sub> :		0.13	m²K/W		<b>U-value [W/(m²K)]: 0.197</b>	

Description of building assembly						Assembly no.
High Performance Retrofit - Foundation						02ud
Orientation of building assembly (or R <sub>si</sub> )		2-Wall				Interior insulation?
Adjacent to (or R <sub>se</sub> )		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
3-1/2" Fibreglass batt insulation	0.054	2x4 framing @ 24" o.c.	0.130			89
1/2" Air gap	0.079					13
8" Concrete foundation	2.300					203
2" EPS type ii	0.036					51
2" EPS type ii	0.036					51
Percentage of sec. 1:						100%
Percentage of sec. 2:						
Percentage of sec. 3:						
Heat transmission resistance coefficients						<b>Total thickness [cm]: 42.0</b>
Interior R <sub>si</sub> :		0.13	m²K/W			
Exterior R <sub>se</sub> :		0.00	m²K/W		<b>U-value [W/(m²K)]: 0.203</b>	

Description of building assembly						Assembly no.
High Performance Retrofit - Header						03ud
Orientation of building assembly (or R <sub>si</sub> )		2-Wall				Interior insulation?
Adjacent to (or R <sub>se</sub> )		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" Fibreglass batt insulation	0.054					13
3" Wood header	0.130					76
1/2" OSB sheathing	0.130					13
2" Rockwool ComfortBoard 80	0.033					51
2" Rockwool ComfortBoard 80	0.033					51
Percentage of sec. 1:						100%
Percentage of sec. 2:						
Percentage of sec. 3:						
Heat transmission resistance coefficients						<b>Total thickness [cm]: 21.7</b>
Interior R <sub>si</sub> :		0.13	m²K/W			
Exterior R <sub>se</sub> :		0.13	m²K/W		<b>U-value [W/(m²K)]: 0.230</b>	

Description of building assembly						Assembly no.
High Performance Retrofit - Slab						04ud
Orientation of building assembly (or R <sub>si</sub> )		3-Floor				Interior insulation?
Adjacent to (or R <sub>se</sub> )		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					20
2" EPS type ii	0.036					51
2" EPS type ii	0.036					51
4" Concrete slab	2.300					102
Percentage of sec. 1:						100%
Percentage of sec. 2:						
Percentage of sec. 3:						
Heat transmission resistance coefficients						<b>Total thickness [cm]: 22.4</b>
Interior R <sub>si</sub> :		0.17	m²K/W			
Exterior R <sub>se</sub> :		0.00	m²K/W		<b>U-value [W/(m²K)]: 0.312</b>	

**ASSEMBLY VALUES**

	U - Value	R - Value	RSI
Wall Assembly	0.197	28.82	5.076
Foundation	0.203	27.97	4.926
Window Header	0.230	24.69	4.348
Slab	0.312	18.2	3.205

**NOTES:**



Revisions

1.	
2.	
3.	

Notes

1.	
2.	
3.	

