HIGH PERFORMANCE POLYCORE - DETAIL SET

I-values of bu	illding asse	emblies		Passive House wi		
Climate: PHPP-Standard / TFA	A: 0 m² / Overheating: %					
			Show spe	ecial cases and secondary ca	lculations o	on the righ
Description of building assembly					Assembly no	
High Performance PolyCore	e - Wall					ud
, , , , , , , , , , , , , , , , , , ,						
Orientation of building ass	embly (or R _{si}) 2-Wall			Interior	insulation?	
Adjace	ent to (or R _{se}) 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)] T	hickness [n
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
Percenta	age of sec. 1: 100%	Percentage of sec. 2:	0.0%	Percentage of sec. 3:		
Heat transm	Interior R_{si} : 0.13 Exterior R_{se} : 0.13	s m²K/W m²K/W		Total thickne U-value [V		38.1 0.099
	Interior R _{si} : 0.13	m²K/W			V/(m²K)]:	0.099
Description of building assembly	Interior R _{st} : 0.13 Exterior R _{se} : 0.13	m²K/W			W/(m²K)]:	0.099
	Interior R _{st} : 0.13 Exterior R _{se} : 0.13	m²K/W			W/(m²K)]:	0.099
Description of building assembly High Performance PolyCore	Interior R _{ss} : 0.13 Exterior R _{se} : 0.13	m²K/W		U-value [V	W/(m²K)]: Assembly no	0.099
Description of building assembly High Performance PolyCore Orientation of building asse	Interior R _{st} : 0.13 Exterior R _{se} : 0.13 e - Foundation embly (or R _{st}) 2-Wall	m²K/W		U-value [V	V/(m²K)]: Assembly no 02 insulation?	0.099
Description of building assembly High Performance PolyCore Orientation of building asse	Interior R_{ss} : 0.13 Exterior R_{se} : 0.13 Per Foundation embly (or R_{si}) 2-Wall 2-Ground	m²K/W m²K/W	λ [W/(mK)]	U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace	Interior R _{st} : 0.13 Exterior R _{se} : 0.13 e - Foundation embly (or R _{st}) 2-Wall	m²K/W	λ [W/(mK)]	U-value [V	V/(m²K)]: Assembly no 02 insulation?	0.099
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1	Interior R_{ss} : 0.13 Exterior R_{se} : 0.13 Per Foundation embly (or R_{ss}) 2-Wall ent to (or R_{se}) 2-Ground λ [W/(mK)]	m²K/W m²K/W	λ [W/(mK)]	U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall	Interior R_{ss} : 0.13 Exterior R_{se} : 0.13 E - Foundation embly (or R_{sl}) 2-Wall ent to (or R_{se}) 2-Ground λ [W/(mK)] 0.180	m²K/W m²K/W	λ [W/(mK)] 50.000	U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall	Interior R_{ss} : 0.13 Exterior R_{se} : 0.13 e - Foundation embly (or R_{si}) ent to (or R_{se}) 2-Wall ent to (or R_{se}) 2-Ground λ [W/(mK)] 0.180 0.180	m²K/W m²K/W Area section 2 (optional)		U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099 o. Thickness [n 13 13
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS	Interior R_{ss} : 0.13 Exterior R_{se} : 0.13 Parameter = 0.13 Exterior R_{se} : 0.13 Exterior R_{se} : 0.18 0.180 0.036	m²K/W m²K/W Area section 2 (optional)		U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099 ud Thickness [n 13 13 89
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS 3-1/2" EPS	Interior R _{si} : 0.13 Exterior R _{se} : 0.13 e - Foundation embly (or R _{si}) 2-Wall ent to (or R _{se}) 2-Ground \$\lambda [W/(mK)]\$ 0.180 0.036 0.036	m²K/W m²K/W Area section 2 (optional) 2x4 steel stud @ 16" o.c.	50.000	U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099 b. tud Thickness [n 13 13 89 89 89
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS 3-1/2" EPS	Interior R _{si} : 0.13 Exterior R _{se} : 0.13 e - Foundation embly (or R _{si}) 2-Wall ent to (or R _{se}) 2-Ground \$\lambda [W/(mK)]\$ 0.180 0.036 0.036	m²K/W m²K/W Area section 2 (optional) 2x4 steel stud @ 16" o.c.	50.000	U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099 b. tud Thickness [n 13 13 89 89 89
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS 3-1/2" EPS	Interior R _{si} : 0.13 Exterior R _{se} : 0.13 e - Foundation embly (or R _{si}) 2-Wall ent to (or R _{se}) 2-Ground \$\lambda [W/(mK)]\$ 0.180 0.036 0.036	m²K/W m²K/W Area section 2 (optional) 2x4 steel stud @ 16" o.c.	50.000	U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099 b. tud Thickness [n 13 13 89 89 89
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS 3-1/2" EPS 1" EPS	Interior R _{si} : 0.13 Exterior R _{se} : 0.13 e - Foundation embly (or R _{si}) 2-Wall ent to (or R _{se}) 2-Ground \$\lambda [W/(mK)]\$ 0.180 0.036 0.036	m²K/W m²K/W Area section 2 (optional) 2x4 steel stud @ 16" o.c.	50.000	U-value [V	Assembly no 02 insulation? it [W/(m²K)]:	0.099 b. tud Thickness [n 13 13 89 89 89
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS 3-1/2" EPS 1" EPS	Interior R _{st} : 0.13 Exterior R _{se} : 0.13 E - Foundation embly (or R _{st}) 2-Wall ent to (or R _{se}) 0.180 0.180 0.036 0.036 0.036 0.036 age of sec. 1: 100%	m²K/W m²K/W Area section 2 (optional) 2x4 steel stud @ 16" o.c. 1x1 steel stud @ 16" o.c. Percentage of sec. 2:	50.000	Interior U-value supplement Area section 3 (optional) Percentage of sec. 3:	Assembly no 02 insulation? at [W/(m²K)] T	0.099 nud Thickness [n 13 13 89 89 25
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS 3-1/2" EPS 1" EPS	Interior R _{si} : 0.13 Exterior R _{se} : 0.13 Exterior R _{se} : 0.13 E- Foundation embly (or R _{si}) 2-Wall ent to (or R _{se}) 2-Ground \(\lambda \text{[W/(mK)]}\) 0.180 0.180 0.036 0.036 0.036 0.036 age of sec. 1: 100%	m²K/W m²K/W Area section 2 (optional) 2x4 steel stud @ 16" o.c. 1x1 steel stud @ 16" o.c. Percentage of sec. 2:	50.000	U-value [V Interior U-value supplement Area section 3 (optional)	Assembly no 02 insulation? at [W/(m²K)] T	0.099 b. tud Thickness [n 13 13 89 89 89
Description of building assembly High Performance PolyCore Orientation of building assembly Adjace Area section 1 1/2" Drywall 1/2" Drywall 3-1/2" EPS 3-1/2" EPS 1" EPS	Interior R _{st} : 0.13 Exterior R _{se} : 0.13 E - Foundation embly (or R _{st}) 2-Wall ent to (or R _{se}) 0.180 0.180 0.036 0.036 0.036 0.036 age of sec. 1: 100%	m²K/W m²K/W Area section 2 (optional) 2x4 steel stud @ 16" o.c. 1x1 steel stud @ 16" o.c. Percentage of sec. 2:	50.000	Interior U-value supplement Area section 3 (optional) Percentage of sec. 3:	Assembly no 02 insulation? at [W/(m²K)] 1 [W/(m²K)] 1 [W/(m²K)] 2 ess [cm]:	0.099 uud Thickness [n 13 13 89 89 25 25 22.9

Description of building assembly					Assembly r	10.
High Performance PolyCore - Header					0	3ud
Orientation of building assembly (or R _{si})	2-Wall			Interior	insulation?	
Adjacent to (or R _{se})		-		U-value supplemen		
Area section 1	λ [W/(mK)]	Area section 2 (optional)	λ [W/(mK)]	Area section 3 (optional)	- \ /-	Thickness [m
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:		
reiceillage of sec. 1.	10076	reiceillage of sec. 2.	0.076	reiceillage of Sec. 3.		
Heat transmission resista		1		Total thickne		38.1
Interior R _{si} .	0.13 0.13	m²K/W m²K/W		U-value [V		0.099
Interior R _{si}	0.13	m²K/W				0.099
Interior R _{se} .	0.13	m²K/W			V/(m²K)]:	0.099
Interior R _{se} : Exterior R _{se} : Description of building assembly High Performance PolyCore - Slab	0.13 0.13	m²K/W		U-value [V	V/(m²K)]: Assembly r	0.099
	0.13 0.13	m²K/W		U-value [V	V/(m²K)]: Assembly r 0 insulation?	0.099
Interior R _{se} : Exterior R _{se} : Description of building assembly High Performance PolyCore - Slab	0.13 0.13 3-Floor 2-Ground	m²K/W	λ [W/(mK)]	U-value [V	Assembly r 0 insulation?	0.099 no. 4ud
	0.13 0.13	m²K/W m²K/W	λ [W/(mK)]	U-value [V	Assembly r 0 insulation?	0.099 no. 4ud
Interior R_{si} Exterior R_{se} : Description of building assembly High Performance PolyCore - Slab Orientation of building assembly (or R_{si}) Adjacent to (or R_{se}) Area section 1 3/4" Plywood	0.13 0.13 3-Floor 2-Ground \(\lambda \left[W/(mK)]\)	m²K/W m²K/W	λ [W/(mK)] 50.000	U-value [V	Assembly r 0 insulation?	0.099 no. 4ud Thickness [m
Interior R_{si} Exterior R_{se} : Description of building assembly High Performance PolyCore - Slab Orientation of building assembly (or R_{si}) Adjacent to (or R_{se}) Area section 1 3/4" Plywood	0.13 0.13 3-Floor 2-Ground \(\lambda \left[W/(mK)]\right] 0.130	m²K/W m²K/W Area section 2 (optional)		U-value [V	Assembly r 0 insulation?	0.099 no. 4ud Thickness [m
Interior R _{si} Exterior R _{se} Description of building assembly High Performance PolyCore - Slab Orientation of building assembly (or R _{si}) Adjacent to (or R _{se}) Area section 1 3/4" Plywood 2-1/2" EPS	0.13 0.13 3-Floor 2-Ground λ [W/(mK)] 0.130 0.036	m²K/W m²K/W Area section 2 (optional)		U-value [V	Assembly r 0 insulation?	0.099 10. 4ud Thickness [m 19 64
Interior R _{si} Exterior R _{se} Description of building assembly High Performance PolyCore - Slab Orientation of building assembly (or R _{si}) Adjacent to (or R _{se}) Area section 1 3/4" Plywood 2-1/2" EPS	0.13 0.13 3-Floor 2-Ground λ [W/(mK)] 0.130 0.036	m²K/W m²K/W Area section 2 (optional)		U-value [V	Assembly r 0 insulation?	0.099 10. 4ud Thickness [m 19 64
Interior R _{si} Exterior R _{se} : Description of building assembly High Performance PolyCore - Slab Orientation of building assembly (or R _{si}) Adjacent to (or R _{se}) Area section 1 3/4" Plywood 2-1/2" EPS 3" EPS	0.13 0.13 3-Floor 2-Ground λ [W/(mK)] 0.130 0.036 0.036	m²K/W m²K/W Area section 2 (optional) 2-1/2" steel stringer	50.000	Interior U-value supplement Area section 3 (optional)	Assembly r 0 insulation?	0.099 10. 4ud Thickness [m 19 64
Interior R _{si} Exterior R _{se} Description of building assembly High Performance PolyCore - Slab Orientation of building assembly (or R _{si}) Adjacent to (or R _{se}) Area section 1 3/4" Plywood 2-1/2" EPS	0.13 0.13 3-Floor 2-Ground λ [W/(mK)] 0.130 0.036	m²K/W m²K/W Area section 2 (optional)		U-value [V	Assembly r 0 insulation?	0.099 10. 4ud Thickness [m 19 64
Interior R _{si} Exterior R _{se} : Description of building assembly High Performance PolyCore - Slab Orientation of building assembly (or R _{si}) Adjacent to (or R _{se}) Area section 1 3/4" Plywood 2-1/2" EPS 3" EPS	0.13 0.13 3-Floor 2-Ground λ [W/(mK)] 0.130 0.036 0.036	m²K/W m²K/W Area section 2 (optional) 2-1/2" steel stringer Percentage of sec. 2:	50.000	Interior U-value supplement Area section 3 (optional)	V/(m²K)]: Assembly r 0 insulation? at [W/(m²K)]	0.099 10. 4ud Thickness [m 19 64

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

Notes

1. . 2. . 3.

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Scale Poly-Core

D1.4