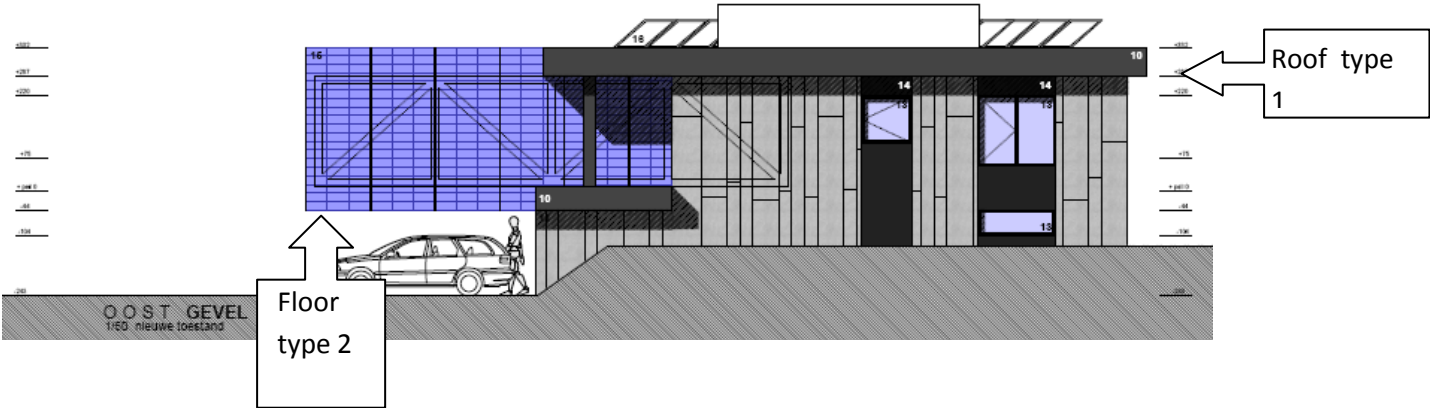
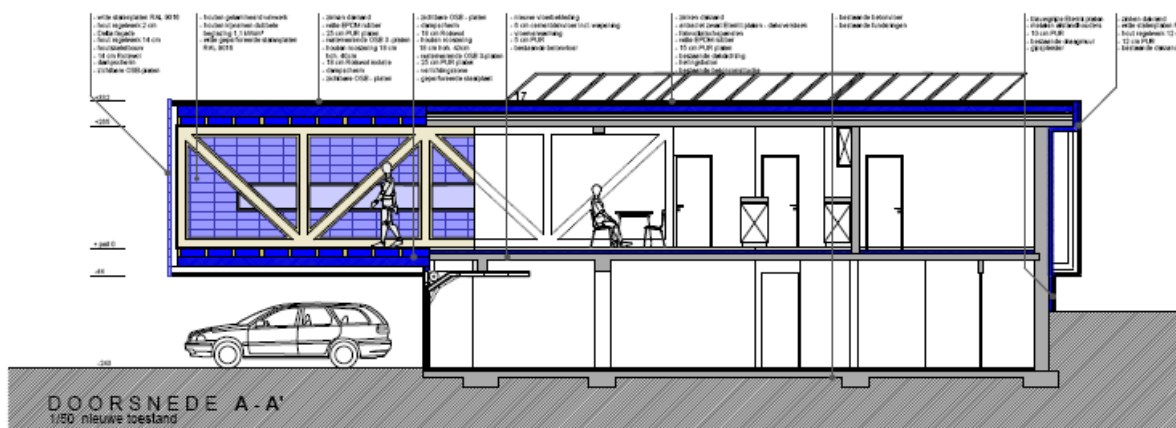
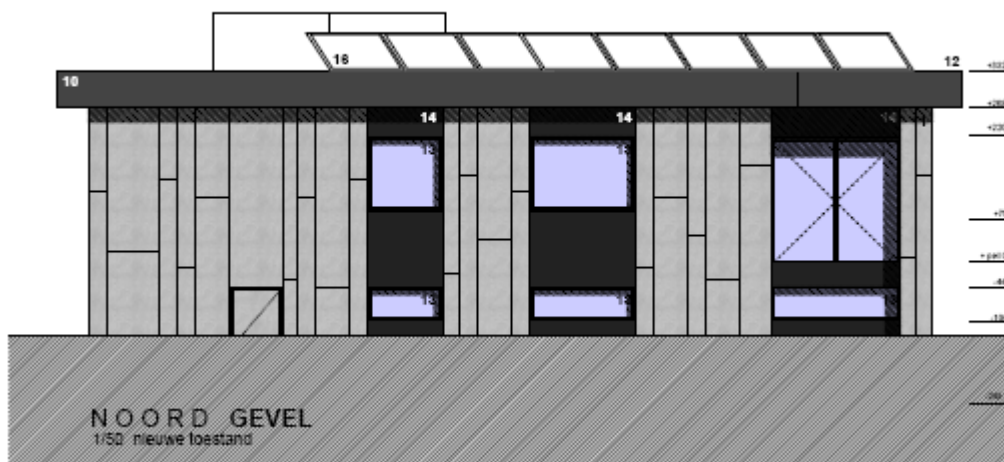
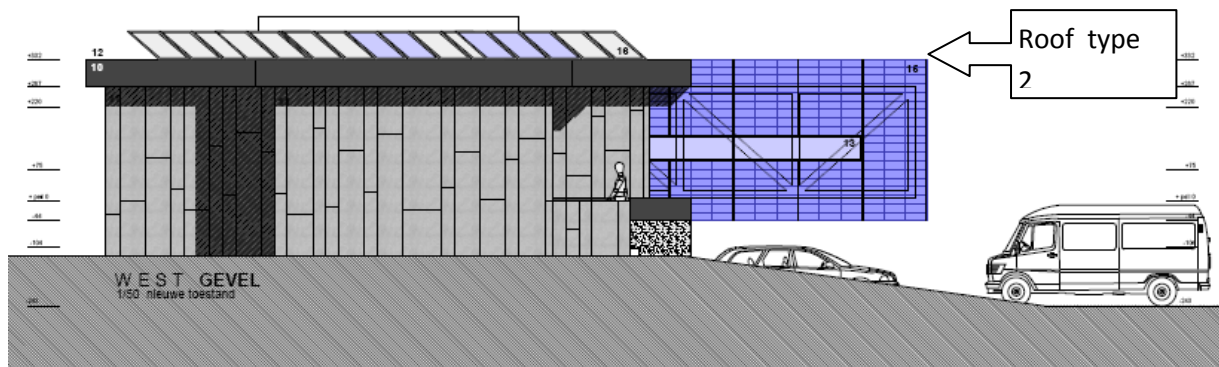
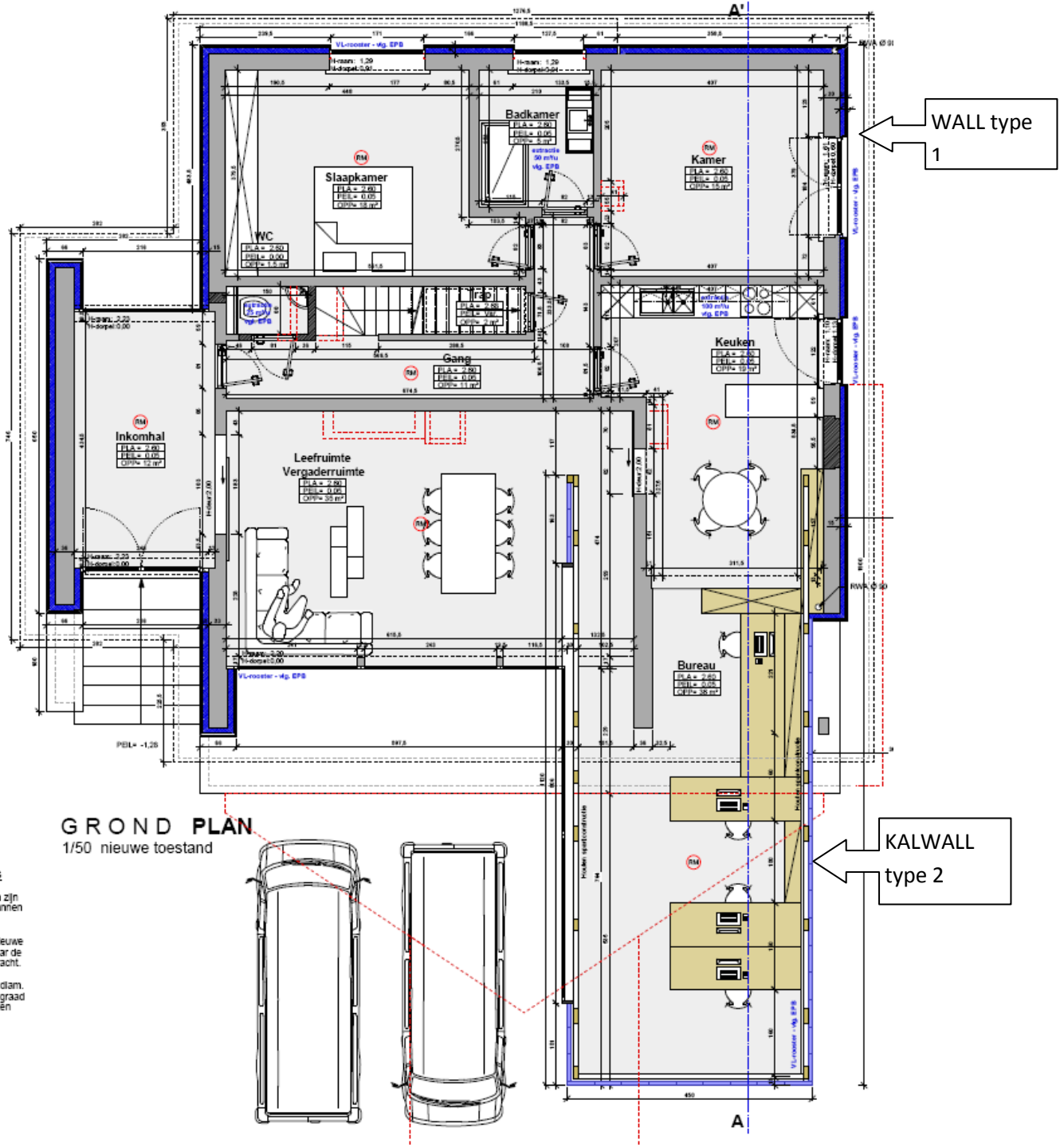


Building for EPD BELGIUM



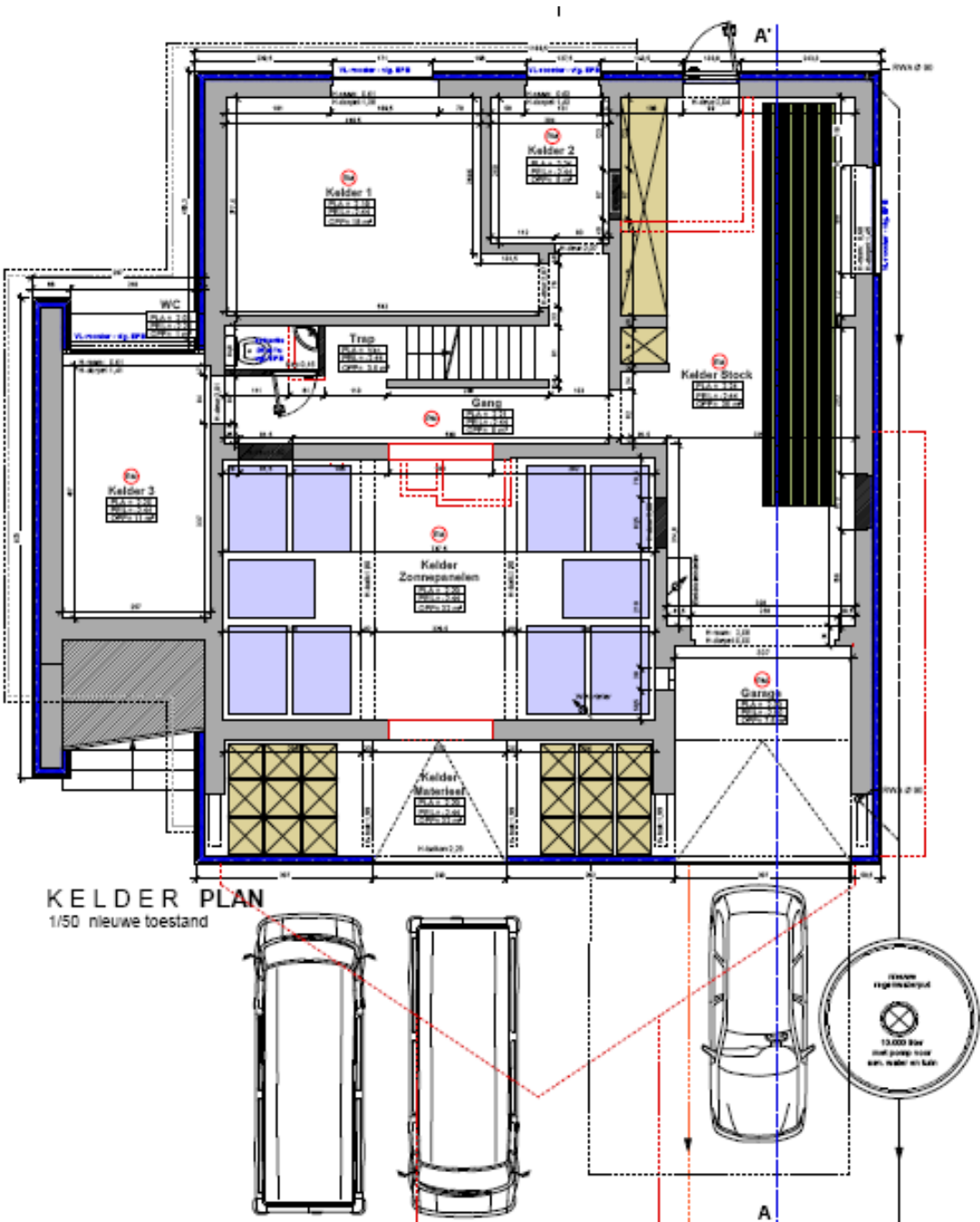


Groundfloor (living area)



RKING
 werken zijn
 in de plannen
 opast.
 in de nieuwe
 slijk naar de
 in gebracht.
 en zijn diam.
 tellingsgraad
 st worden

Cave (non heated area)



Insulation		lambda	size	U-value
WALLS				
Wall Ext type 1 (thick blue-line)				
final outside panel	Etercolor	0,390 W/mK	2,20 cm	
Insulation	cork-insulation	0,032 W/mK	10,00 cm	
wall	exist. brick wall (outside)	1,323 W/mK	9,00 cm	
Insulation	EPS-pearls	0,033 W/mK	6,00 cm	
wall	existing wall (inside)	1,195 W/mK	14,00 cm	
	plaster	0,570 W/mK	1,00 cm	
			U-value wall	U: W/m ² K
Wall Ext type 2 (KALWALL)				
			U-value wall	U: 0,78W/m ² K
inside wall border cave (non heated area)				
Insulation	XPS	0,034 W/mK	5,00 cm	
wall	brick	0,433 W/mK	14,00 cm	
			U-value wall	U: 0,52W/m ² K
ROOF				
flat roof type 1				
watertightness	EPDM (Derbigum)		0,20 cm	
Insulation	PUR	0,028 W/mK	15,00 cm	
concrete	concrete	1,300 W/mK	3,00 cm	
	hollow core slab		16,00 cm	
			U-value roof	U: 0,18W/m ² K
flat roof type 2				
watertightness	EPDM (Derbigum)		0,20 cm	
Insulation	PUR	0,028 W/mK	25,00 cm	
panel	OSB-panel	0,130 W/mK	1,40 cm	
Insulation (wood struct)	Minerale wol	0,041 W/mK	18,00 cm	
panel	OSB-panel	0,130 W/mK	1,40 cm	
			U-value roof	U: W/m ² K
FLOORS				
floor above cave (nonheated area)				
floor	hollow core slab		16,00 cm	
concrete	concrete	1,300 W/mK	3,00 cm	
Insulation	Gesp. PUR	0,028 W/mK	5,00 cm	
screed	screed	1,300 W/mK	6,00 cm	
			R-value floor	R: 1,99m ² K/W
Floor above outside air				
floor	OSB-panel /Insulation Rockwool (wooden structure) 18 cm / OSB/PUR 25 cm			U: 0,12 W/m ² K
Windows			U-value windows	U: 1,48W/m ² K
doors (glass)			U-doors	U: 1,47W/m ² K



Technic Installation

On flat roof: PV-panels 7488 kWp orietation: S 35°

Heating + hotwater prod (sanit): VAILLANT geoTHERM VWS 6 - 10 kW

Ventilation: none