

	UNITS						MATERIAL GWP & EE										MODULE			
	Dimensions of each piece						Material Amount per m2				per m3		per m2		m2 per module					
											GLOBAL WARMING POTENTIAL & EMBODIED ENERGY									
	PART 1	HIGHT [mm]	WIDTH [mm]	LENGHT [mm]	SURFACE [m2]	VOLUME per piece [m3]	pcs. per m2	VOLUME per m2 [m3]	PRODUCT NAME / BRAND	GWP (A1-A3)	EE (A1-A3)	GWP (A1-A3)	EE (A1-A3)	m2 of material in 1 module	GWP [kg CO2-Eq.] A1-A3	EE [MJ] A1-A3				
ROOF STRUCTURE	Wodden Shingles / Cedar	20	150	400	0,06	0,0012	55	0,066	MOELVEN INDUSTRIER AS	-473,00	2360,00	-31,22	155,76	46,5	-1451,64	7242,84				
	roof lumber 1st layer	30	50	1000	0,05	0,0015	5	0,0075	EGGER SAWN TIMBER DRIED	-784,00	318,00	-5,88	2,39	33,1	-194,63	78,94				
	roof lumber 2nd layer	30	50	1000	0,05	0,0015	2	0,003	EGGER SAWN TIMBER DRIED	-784,00	318,00	-2,35	0,95	33,1	-77,85	31,58				
	waterproof membrane	-	-	-	1	0,0000	1	0	THERMOFOL U15	-	-	5,05	77,20	35	176,75	2702,00				
	roof spares lumber	200	50	1000	0,05	0,0100	2	0,02	EGGER SAWN TIMBER DRIED	-784,00	318,00	-15,68	6,36	33,1	-519,01	210,52				
	woodfiber insulation	200	600	1000	0,6	0,1200	1,5	0,18	SCHNEIDER WOODFIBER	-221,00	285,00	-39,78	51,30	35	-1392,30	1795,50				
	damp proof membrane	-	-	-	1	0,0000	1	0	THERMOFOL U15	-	-	5,05	77,20	35		2702,00				
	CLT 5 layer	120	1000	1000	1	0,1200	1	0,12	RUBNER CLT	-664,00	1350,00	-79,68	162,00	33,1	-2637,41	5362,20				
	glulam beam	600	200	1000	0,2	0,1200	1	0,12	RUBNER GLULAM	-646,00	1340,00	-77,52	160,80	16	-1240,32	2572,80				
FLOOR STRUCTURE	PART 2	HEIGHT [mm]	WIDTH [mm]	LENGHT [mm]	SURFACE [m2]															
	glulam floor beam	600	200	1000	0,2	0,1200	1	0,12	RUBNER GLULAM	-646,00	1340,00	-77,52	160,80	14	-1085,28	2251,20				
	floor boards douglasie	30	300	1000	0,3	0,0090	3,33	0,02997	TREINDUSTRIEN	-607,00	782,00	-18,19	23,44	31,5	-573,04	738,25				
	akustic sheet	20	600	1000	0,6	0,0120	1	0,012	SCHNEIDER UNDERFLOOR	-221,00	285,00	-2,65	3,42	31,5	-83,54	107,73				
	damp proof membrane	-	-	-	1	0,0000	1	0	THERMOFOL U15	-	-	5,05	77,20	33,1	167,16	2555,32				
	CLT 5layer	120	1000	1000	1	0,1200	1	0,12	RUBNER CLT	-664,00	1350,00	-79,68	162,00	31,5	-2509,92	5103,00				
	wood fiber insulation	300	600	1000	0,6	0,1800	1,5	0,27	SCHNEIDER WOODFIBER	-221,00	285,00	-59,67	76,95	31,5	-1879,61	2423,93				
	waterproof membrane	-	-	-	1	0,0000	1	0	THERMOFOL U15	-	-	5,05	77,20	33,1	167,16	2555,32				
	lumber	75	50	1000	0,05	0,0038	2	0,0075	EGGER SAWN TIMBER DRIED	-784,00	318,00	-5,88	2,39	31,5	-185,22	75,13				
	softwood lumber planks	20	200	1000	0,2	0,0040	5	0,02	EGGER SAWN TIMBER DRIED	-784,00	318,00	-77,52	6,36	31,5	-2441,88	200,34				
FOUNDATION	PART 3	HEIGHT [mm]	WIDTH [mm]	LENGHT [mm]	SURFACE [m2]											pcs. per module				
	lean concrete	50	600	600	0,36	0,0180	1	0,018	Concrete Green 0317	251,00	1,10	4,52	0,02	9	40,66	0,18				
	concrete pile	1200	600	600	0,36	0,4320	1	0,432	Concrete Green 0317	251,00	1,10	108,43	0,48	9	975,89	4,28				
WALL	PART 4	HEIGHT [mm]	WIDTH [mm]	LENGHT [mm]	SURFACE [m2]															
	glulam beam	800	200	1000	0,2	0,1600	1	0,16	RUBNER GLULAM	-646,00	1340,00	-103,36	214,40	2,5	-258,40	536,00				
	CLT 3layer	100	1000	1000	1	0,1000	1	0,1	RUBNER CLT	-664,00	1350,00	-66,40	135,00	35,8	-2377,12	4833,00				
	woodfiber insulation	50	600	1000	0,6	0,0300	1,5	0,045	STEICO SILENCIO	-221,00	285,00	-9,95	12,83	35,8	-356,03	459,14				
	panel douglasie	30	200	1000	0,2	0,0060	25	0,15	TREINDUSTRIEN	-607,00	782,00	-91,05	117,30	17,8	-1620,69	2087,94				
WINDOW	PART 5	HEIGHT [mm]	WIDTH [mm]	LENGHT [mm]	SURFACE [m2]															
	Window A	2800	2600	30	0,078	0,2184	0,595	0,130	SKYFRAME 3	-	-	79,5	1150	7,8	620,10	8970,00				
	Window B	5000	1400	30	0,042	0,2100	0,595	0,125	SKYFRAME 3	-	-	79,5	1150	7,5	596,25	8625,00				
TOTALS												-551,834063,73		TOTALS		-18139,9264224,12				
												GLOBAL WARMING POTENTIAL		EMBODIED ENERGY						
												[kg CO2-Eq.]		[MJ]						
												-18139,9264224,12								