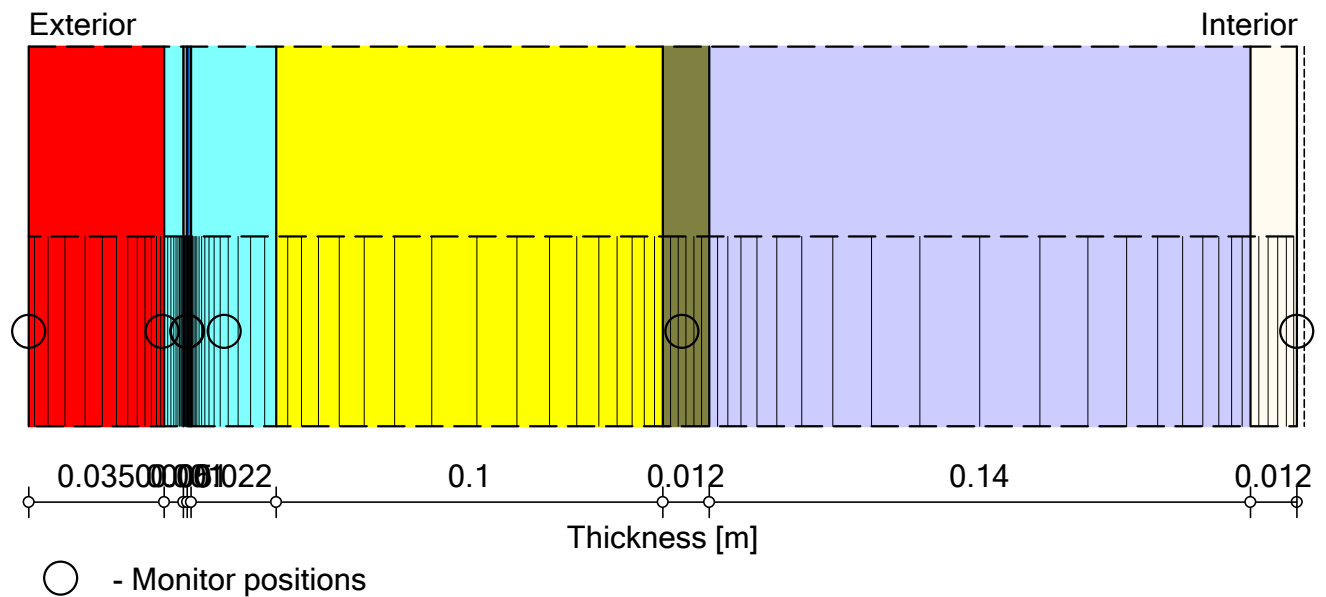

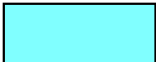









Component Assembly

Case: Same as 2, but with Vapour Barrier



Materials:

	- Solid Brick Masonry	0.035 m
	- Air Layer 5 mm; without additional moisture capacity	0.005 m
	- *Perforated Metal Sheet - RWS - 3/25/2	0.001 m
	- *TLX UV10 Breather Membrane - RWS	0.001 m
	- Air Layer 20 mm; without additional moisture capacity	0.022 m
	- *100mm Phenolic Insulation with 75mm Timber Studs - RWS	0.1 m
	- *Cement Particle Board - RWS	0.012 m
	- *140mm SFS with Mineral Wool - RWS	0.14 m
	- Gypsum Board; PCM	0.012 m

Sd-Value Int. [m]: 100.0

Total Thickness: 0.328 m

R-Value: 5.53 m²K/W

U-Value: 0.175 W/m²K

Results from Last Calculation

Status of Calculation

Calculation: Time and Date	22/11/2017 08:59:46
Computing Time	7 min,4 sec.
Begin / End of calculation	01/11/2017 / 01/11/2022
No. of Convergence Failures	1478

Check for numerical quality

Integral of fluxes, left side (kl,dl)	[kg/m²]	103.77 -262.04
Integral of fluxes, right side (kr,dr)	[kg/m²]	1E-7 0.12
Balance 1	[kg/m²]	4.68
Balance 2	[kg/m²]	-158.39

Water Content [kg/m²]

	Start	End	Min.	Max.
Total Water Content	5.1	9.81	2.87	15.48

Water Content [kg/m³]

Layer/Material	Start	End	Min.	Max.
Solid Brick Masonry	100.00	114.76	6.58	189.95
Air Layer 5 mm; without additional moisture	0.01	244.47	0.01	588.36
*Perforated Metal Sheet - RWS - 3/25	0.00	0.37	0.00	1.00
*TLX UV10 Breather Membrane - RW	0.00	0.07	0.00	0.79
Air Layer 20 mm; without additional moisture	0.01	32.23	0.01	264.91
*100mm Phenolic Insulation with 75mm	1.79	15.27	1.79	17.85
*Cement Particle Board - RWS	91.00	149.96	70.52	154.29
*140mm SFS with Mineral Wool - RW	1.79	3.29	0.59	4.67
Gypsum Board; PCM	6.30	6.18	3.12	16.64

Time Integral of fluxes

Heat Flux, left side	[MJ/m²]	-7627.09
Heat Flux, right side	[MJ/m²]	-202.09
Moisture Fluxes, left side	[kg/m²]	-158.24
Moisture Fluxes, right side	[kg/m²]	0.12

Hygrothermal Sources

Heat Sources	[MJ/m²]	0.0
Moisture Sources	[kg/m²]	0.0
Unreleased Moisture Sources (due to cut-off)	[kg/m²]	0.0