

Mur IsoBriq - 5cm

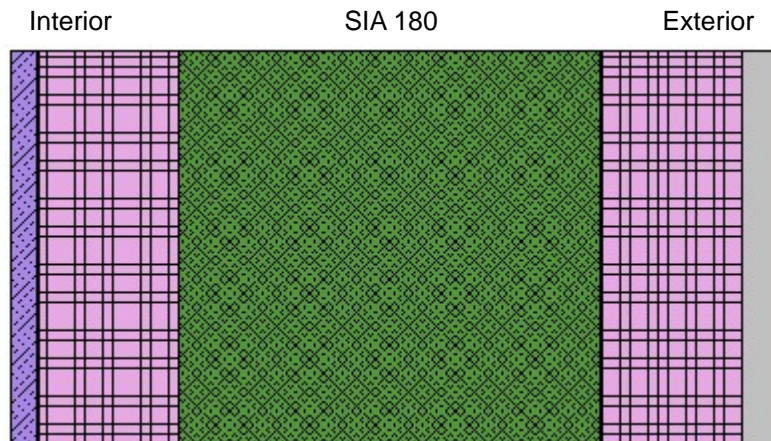
Use: Wall
 Against exterior

Thermal capacity
 [kJ/m²K]

Cm 10cm (24h): 11,9
 Cm 3cm (2h): 11,9

Geometry

Thickness [mm]: 272



U value

Static

0,2685 [W/m²K]

Rse: 0.04 [m²K/W]

Meteo: Lille (FRANCE), Altitude of building site : 200 m (+174 m)

Section 1

Material name:		Thickness [cm]	Sd [m]	λ [W/mK]	μ [-]	ρ [kg/m ³]	c [wh/kgK]	R [m ² K/W]
Rsi								0.130
1	CEN 2008 : Plaster rendering CEN	1	0,2	0,7	20	1400	0.236	0,014
2	Custom : Neopor Isobriq (EPS)	5	2	0,029	40	15	0.390	1,724
3	CEN : Cast concrete 2400 kg/m ³ CEN	15	19,5	2	130	2400	0.278	0,075
4	Custom : Neopor Isobriq (EPS)	5	2	0,029	40	15	0.390	1,724
5	Minergie ECO : COver coat, mineral	1,2	0,12	0,7	10	1500	0.780	0,017
Rse								0.040
dUg= 0 [W/m ² K], dUf= 0 [W/m ² K]							dR	0
RT								3,725

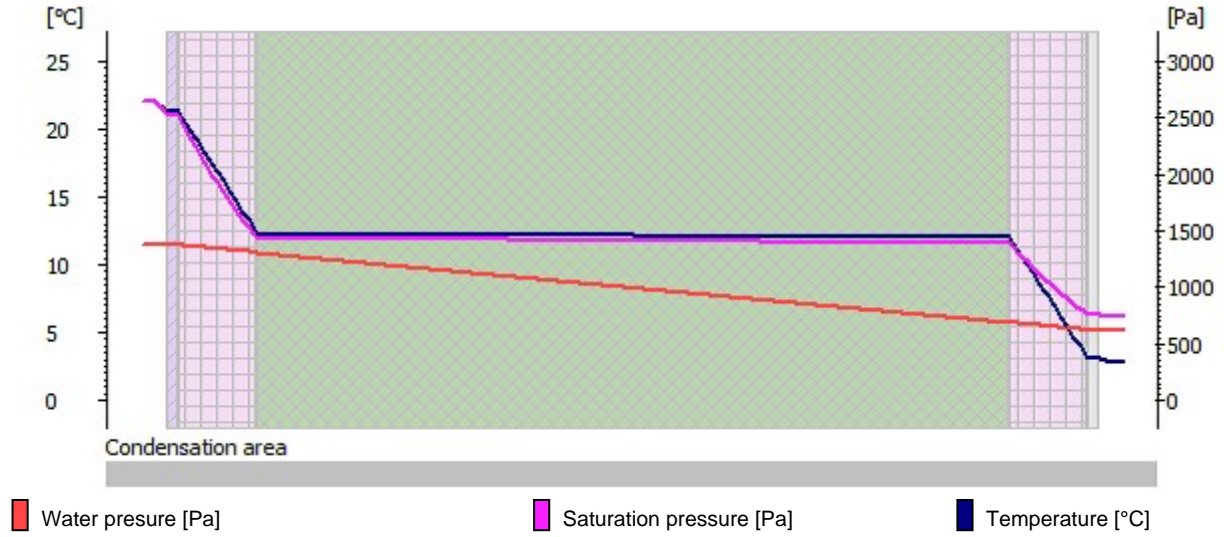
frsi = 0.911 [-], frsi,min,cond = 0.710 [-], frsi,min,moist = 0.750 [-]

Hygrothermal characteristics

First Month: January	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Security factor
Interior													
Temperature [°C]	22	22	22	22	22	22	22	22	22	22	22	22	-
Relative humidity [%]	52,2	53,4	55,7	58,5	63,3	67,7	69,5	71,2	66,9	61,8	56	52,9	-
Exterior													
Temperature [°C]	2,85	4,14	6,55	9,14	12,8	15,8	17,1	18	14,7	10,7	6,05	3,35	-
Relative humidity [%]	82,6	78,6	72	68,6	69	69,4	67,9	70	76	82	84	84,6	-

Ma: accumulated moisture contents
Gc: rate of condensation

Graphs in equivalent air thickness: January



■ Water presure [Pa]
 ■ Saturation pressure [Pa]
 ■ Temperature [°C]

Equivalent air width of the section:

23.8 [m]

No condensation in the section

Symbols



One or more red circles indicate an integrated heating system.



A white layer with wave means ventilated against ext.
One wave represents slightly ventilated, 4 waves strongly ventilated



A slice, grayed and light, means an element not renewed (for LCA calculation)



A layer with white triangle represents air voids.



A layer with horizontal triangle shows mechanical fasteners