

## Mur IsoBriq

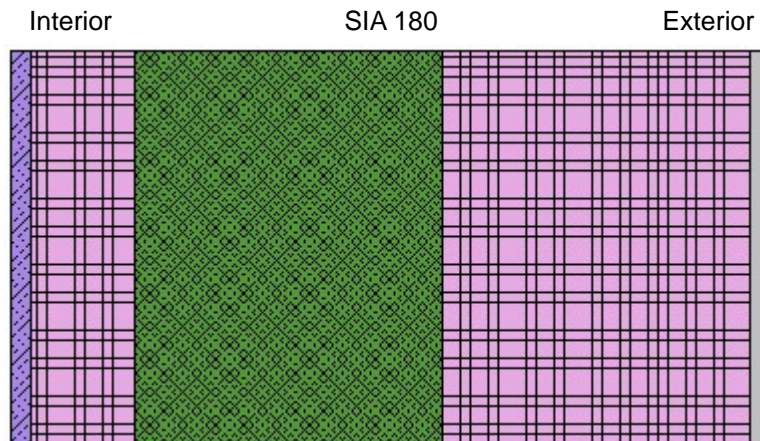
Use: Wall  
Against exterior

**Thermal capacity**  
[kJ/m<sup>2</sup>K]

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

**Geometry**

Thickness [mm]: 372



**U value**

Static

**0,1394 [W/m<sup>2</sup>K]**

Rse: 0.04 [m<sup>2</sup>K/W]

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

### Section 1

Material name:		Thickness [cm]	Sd [m]	$\lambda$ [W/mK]	$\mu$ [-]	$\rho$ [kg/m <sup>3</sup> ]	c [wh/kgK]	R [m <sup>2</sup> 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 <sup>3</sup> CEN	15	19,5	2	130	2400	0.278	0,075	
4	Custom : Neopor Isobriq (EPS)	15	6	0,029	40	15	0.390	5,172	
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 <sup>2</sup> K], dUf= 0 [W/m <sup>2</sup> K]									dR
									RT
									<b>7,173</b>

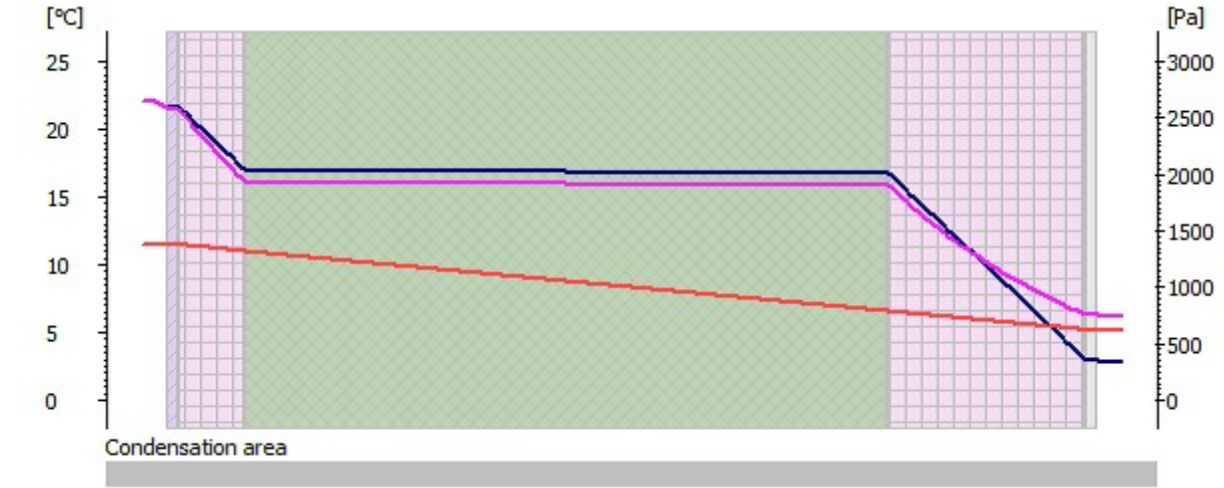
frsi = 0.953 [-], frsi,min,cond = 0.710 [-], frsi,min,moist = 0.750 [-]

### 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 pressure [Pa]

Saturation pressure [Pa]

Temperature [°C]

Equivalent air width of the section:

27.8 [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 represent slightly ventilated, 4 wave strongly ventilated



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



A layer with white triangle represent air voids.



A layer with horizontal triangle shows mechanical fasteners