

S20_5EPS_5EPS_2SW©



Overall width finished SISMO® wall

- 22 cm

Weight of SISMO® module

- 5,9 kg/m²

Build up finished SISMO® wall

- 1 cm plastering on a single external wire ($\lambda = 0,4 \text{ W/mK}^*$)
- 5 cm expanded polystyrene 150 kPa ($\lambda = 0,035 \text{ W/mK}$)
- 10 cm concrete ($\lambda = 1,65 \text{ W/mK}^*$)
- 5 cm expanded polystyrene 150 kPa ($\lambda = 0,035 \text{ W/mK}$)
- 1 cm plastering on a single external wire ($\lambda = 0,55 \text{ W/mK}^*$)

* Thermal conductivity according to Table 3 ISO 10456

Thermal resistance and transmittance finished wall (ISO 6946)

- $R \geq 2,39 \text{ m}^2\text{K/W}^{**}$
- $U \leq 0,42 \text{ W/m}^2\text{K}$

** Thermal conductivity cross wires $\lambda = 50 \text{ W/mK}$

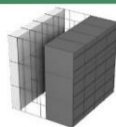
Resistance to fire (EN 1992-1-2)

- REI 30 for a load bearing wall
- EI 90 for a non load bearing wall

Type of SISMO® module

- Type 2

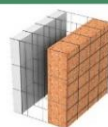
TYPE 1: EPS1 / EPS2



TYPE 2: EPS1 / EPS1



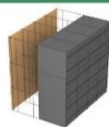
TYPE 3: EPS1 / RESOL



TYPE 4: FC (PW) / EPS1



TYPE 5: FC (PW) / EPS2



TYPE 6: FC (PW) / RESOL



TYPE 7: FC (PW) / FC (PW)



Legend:
 EPS1 = Expanded Polystyrene
 EPS2 = graphite-enhanced Expanded Polystyrene
 RESOL= Phenolic Foam
 FC = Fibre Cement or PW = PlyWood

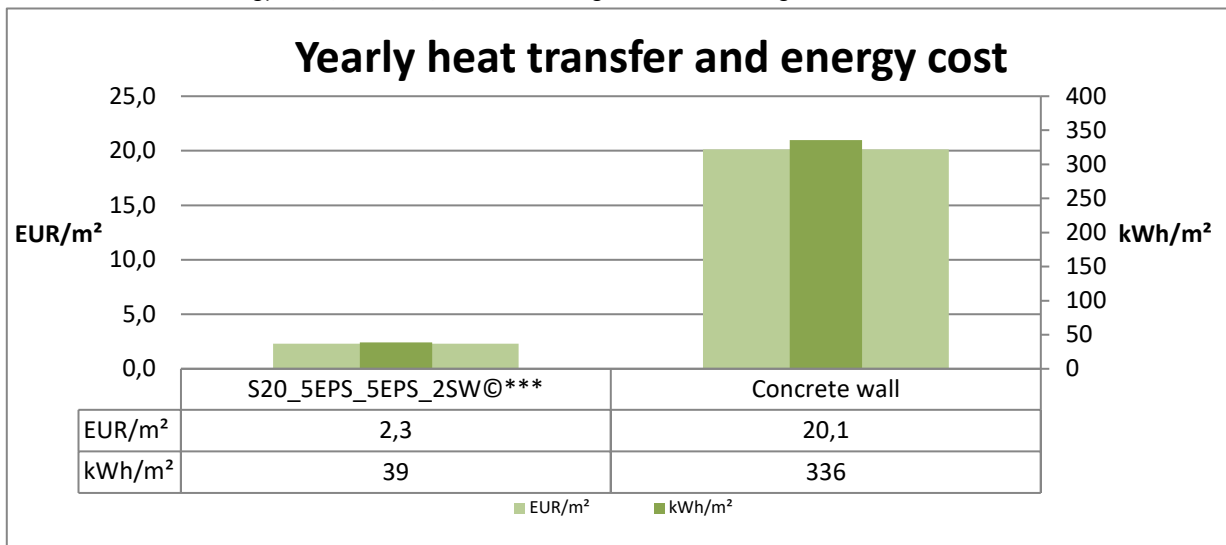
TECHNICAL DATASHEET

S20_5EPS_5EPS_2SW©

Yearly energy saving compared to wall without insulation
 o 297 kWh/m² for a climate like in Brussels

Yearly energy and cost saving when using**	
S20_5EPS_5EPS_2SW©	
instead of	
Concrete without insulation	
297	kWh/m ²
18	EUR/m ²

** Energy Cost (EUR/kWh): 0,06 for heating and 0,2 for cooling



*** A saving of 17,8 EUR/m² compared to a non-insulated concrete wall

Hygrothermal behaviour for a climate like in Brussels (ISO 13788)

o On a yearly basis there is no accumulated moisture

