

## S30\_5EPS\_5EPS\_2SW©



### Overall width finished SISMO® wall

- 32 cm

### Weight of SISMO® module

- 6,1 kg/m<sup>2</sup>

### 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 ( $\lambda = 0,035 \text{ W/mK}$ )
- 20 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)

- $R \geq 2,45 \text{ m}^2\text{K/W}^{**}$
- $U \leq 0,41 \text{ W/m}^2\text{K}$

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

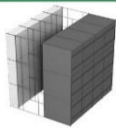
### Resistance to fire (EN 1992-1-2)

- REI 180 for a load bearing wall
- EI 240 for a non load bearing wall

### Type of SISMO® module

- Type 2

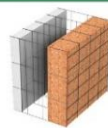
TYPE 1: EPS1 / EPS2



TYPE 2: EPS1 / EPS1



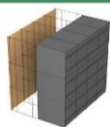
TYPE 3: EPS1 / RESOL



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

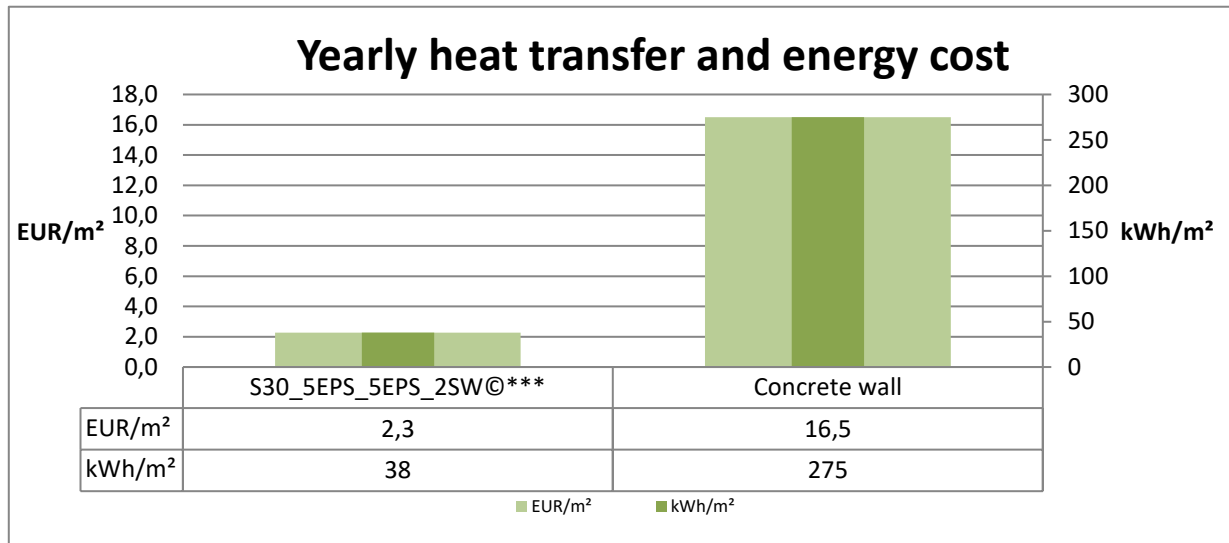
FC = Fibre Cement or PW = PlyWood

## S30\_5EPS\_5EPS\_2SW©

Yearly energy saving compared to wall without insulation  
 o 237 kWh/m<sup>2</sup> for a climate like in Brussels

<b>Yearly energy and cost saving when using**</b> <b>S30_5EPS_5EPS_2SW©</b>	
instead of	
<b>Concrete without insulation</b>	
<b>237</b>	kWh/m <sup>2</sup>
<b>14</b>	EUR/m <sup>2</sup>

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



\*\*\* A saving of 14,2 EUR/m<sup>2</sup> 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

