

Supplement 1

The buildings were made by different materials such as light concrete blocks, face bricks, and cob. Cob is a natural building material made from subsoil, water, fibrous organic material (typically straw). The calculation of U-value for this material is extremely difficult, and no references mention this value. Therefore, the worst case for the U-value has been selected according to the following table, which is presented as Table S1.

Table S1. Thermophysical properties of the materials used in buildings.

Layers	Thickness (mm)	Density (kg/m³)	U-value
Outside surface resistance	-	-	0.05864
Face brick	25	2002.3	0.019
Gypsum plaster	25	720.8	0.112
LW concrete block	78	0.84	0.206
Pure cob	50	60	Approximate value 0.5
Inside surface resistance	-	-	0.12064