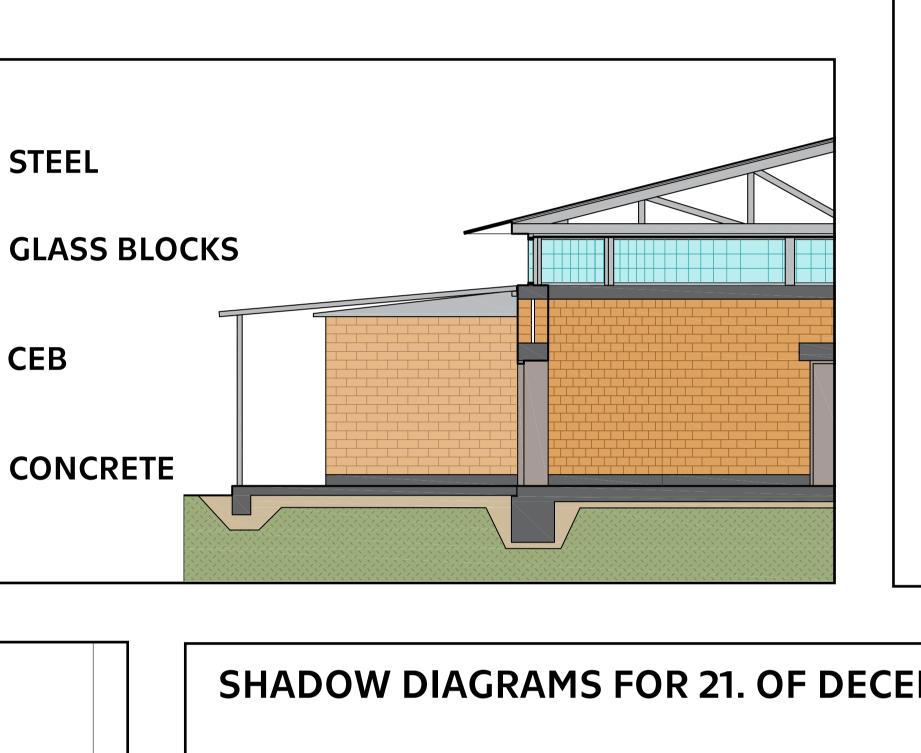


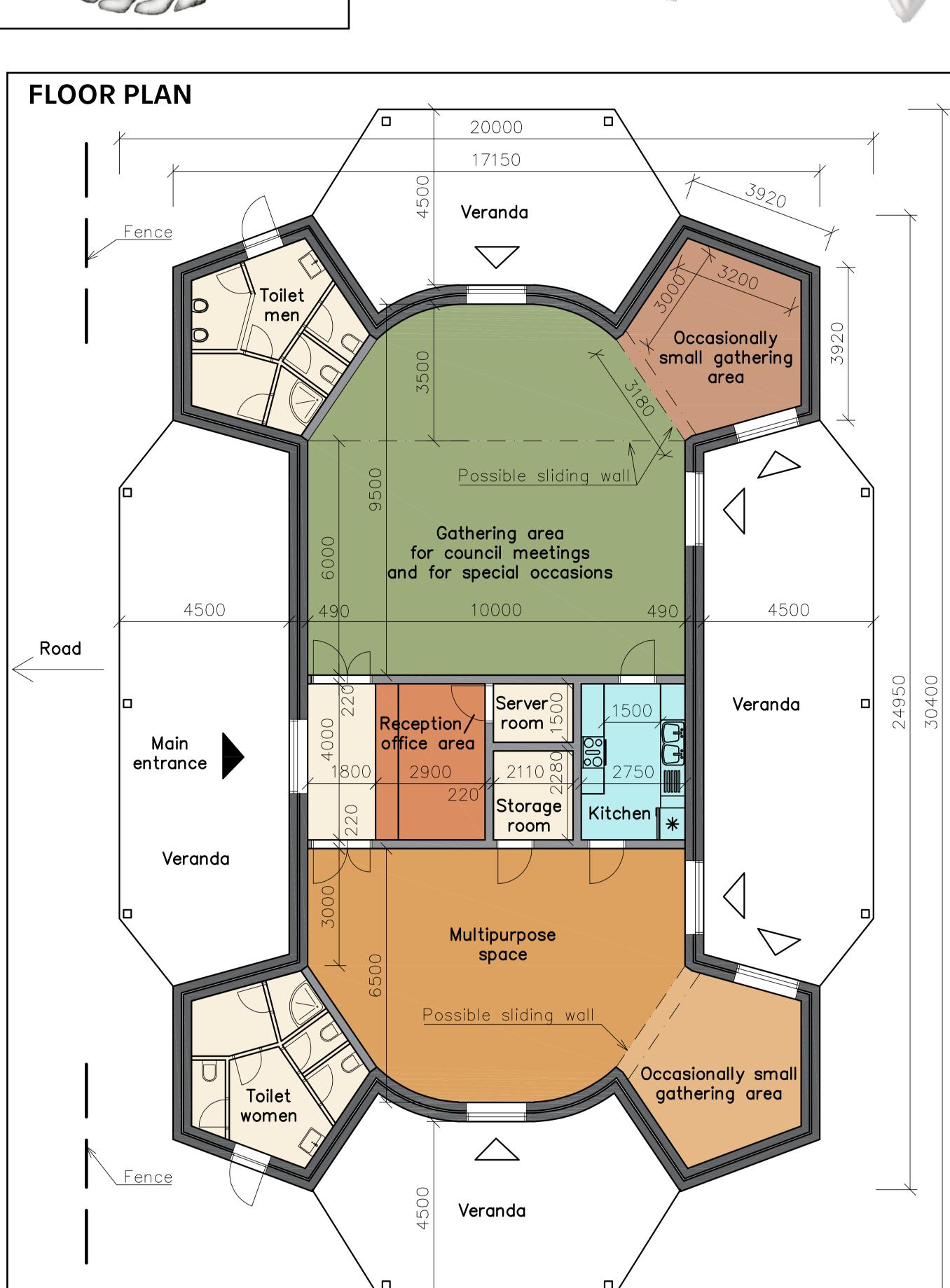


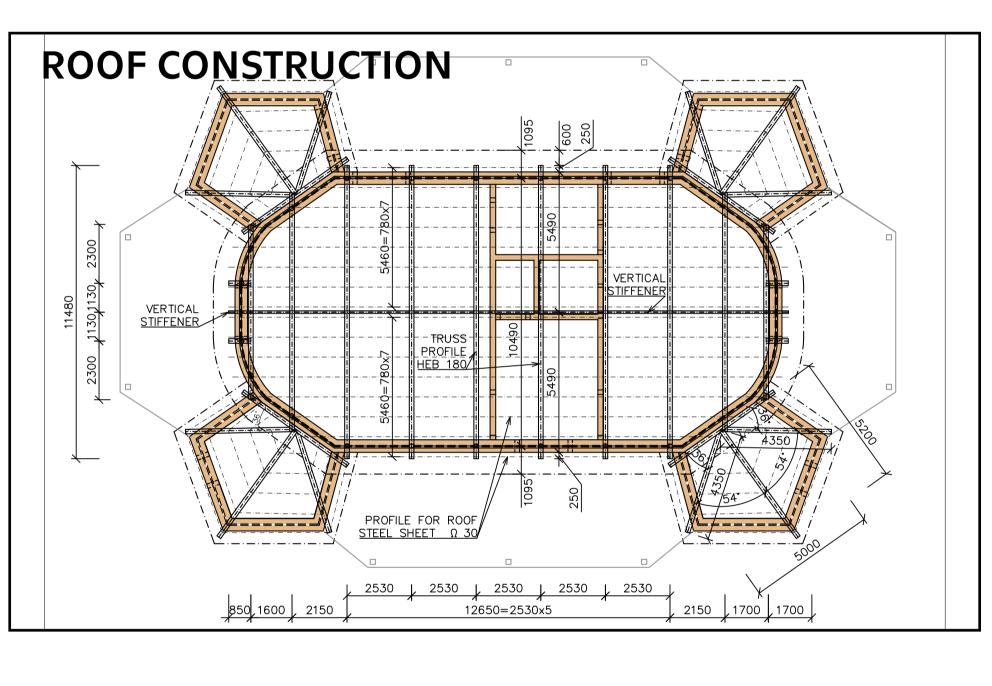




## **CONCEPT OF CONSTRUCTION** The roof trusses, roofing sheets and shading structures on the verandas will all be made of steel. The roof trusses are placed **STEEL** on the masonry via steel columns located between the windows. **GLASS BLOCKS** In the upper part of the building will be made a strip window of glass blocks all around the construction. The load-bearing walls are made of two layers of compressed **CEB** earth blocks, each layer 220 mm thick with an air gap of 50 mm. The masonry will be reinforced in the corners and at the points





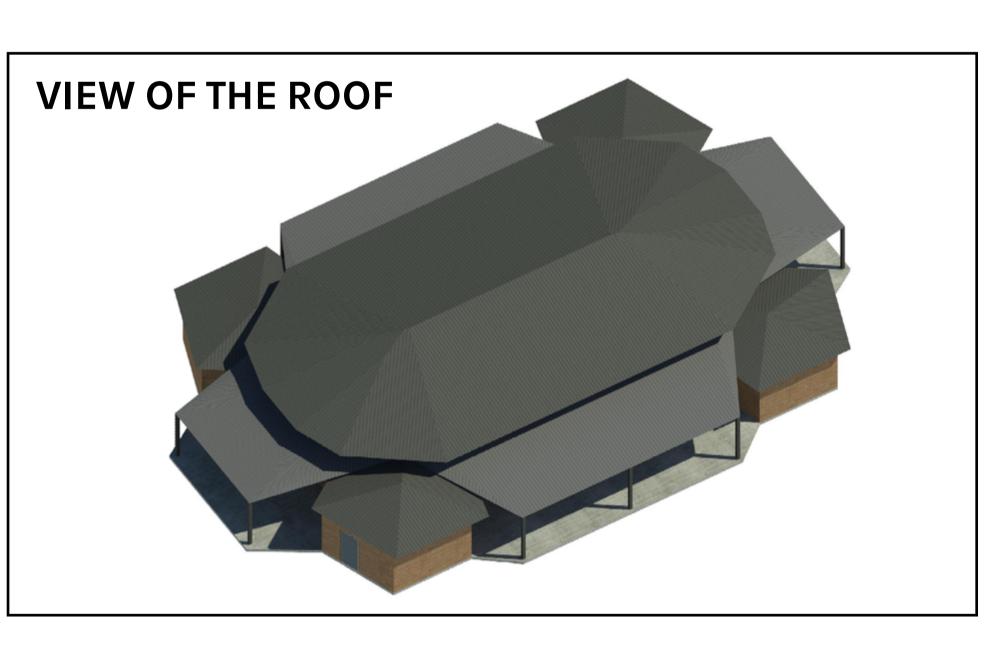


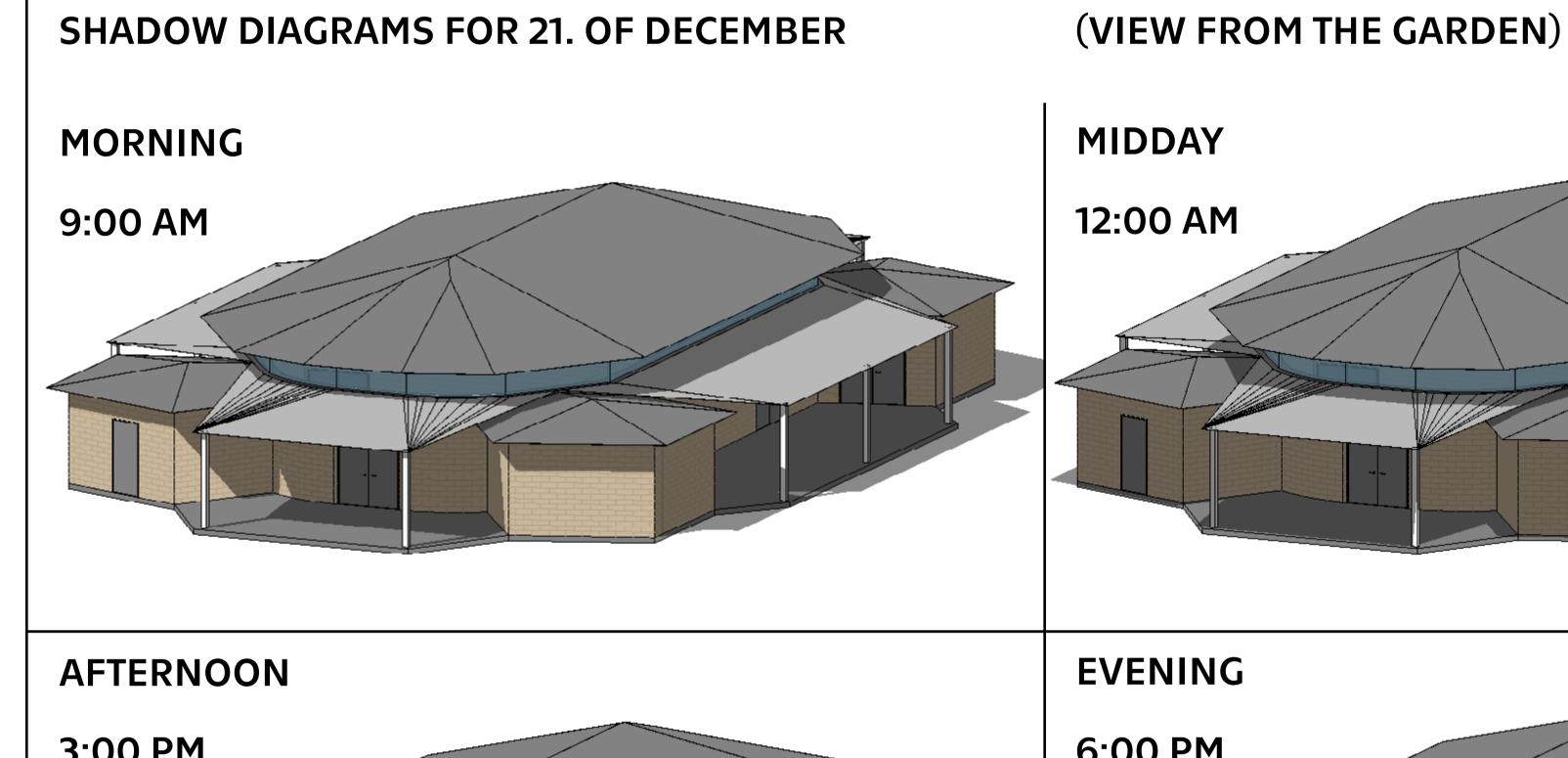
The foundations and reinforcing elements of the load-bearing

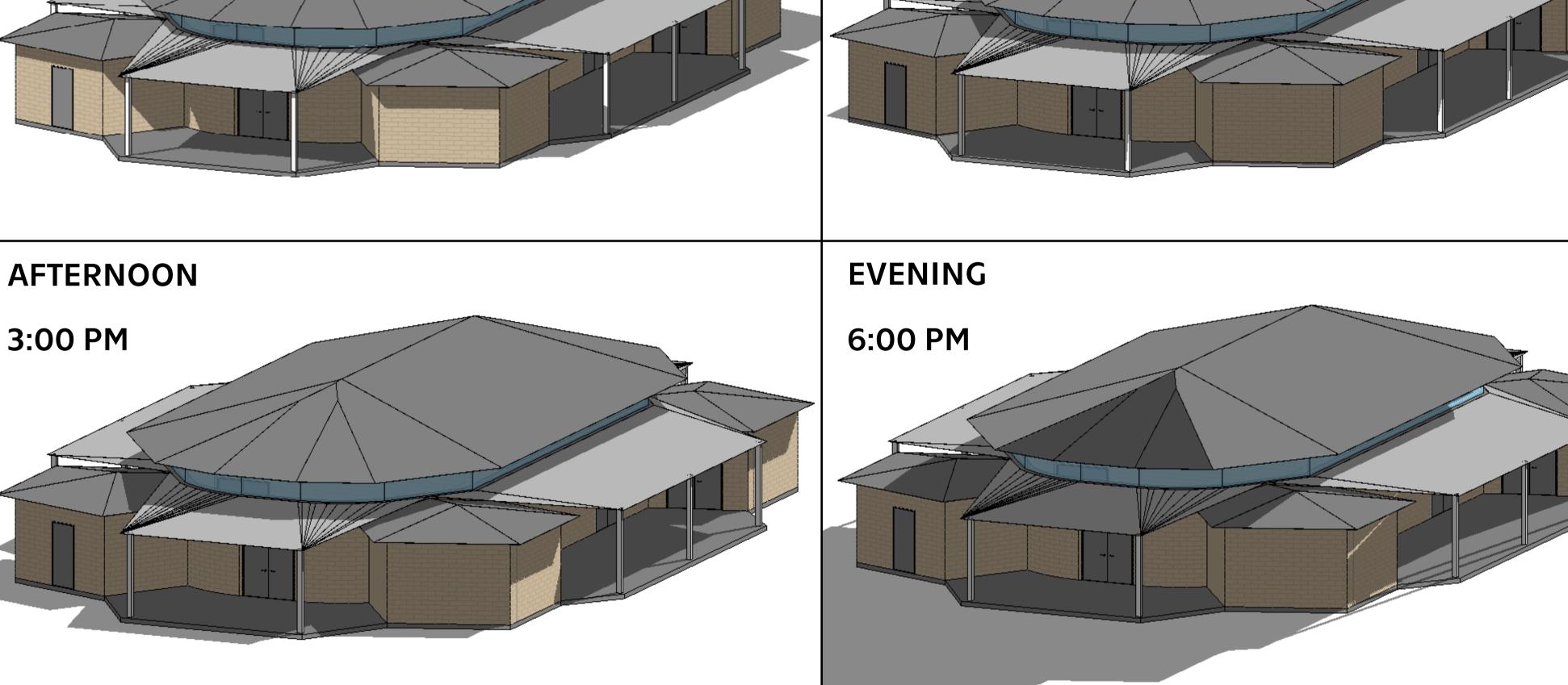
walls are made of concrete. Floors and porches forming polished

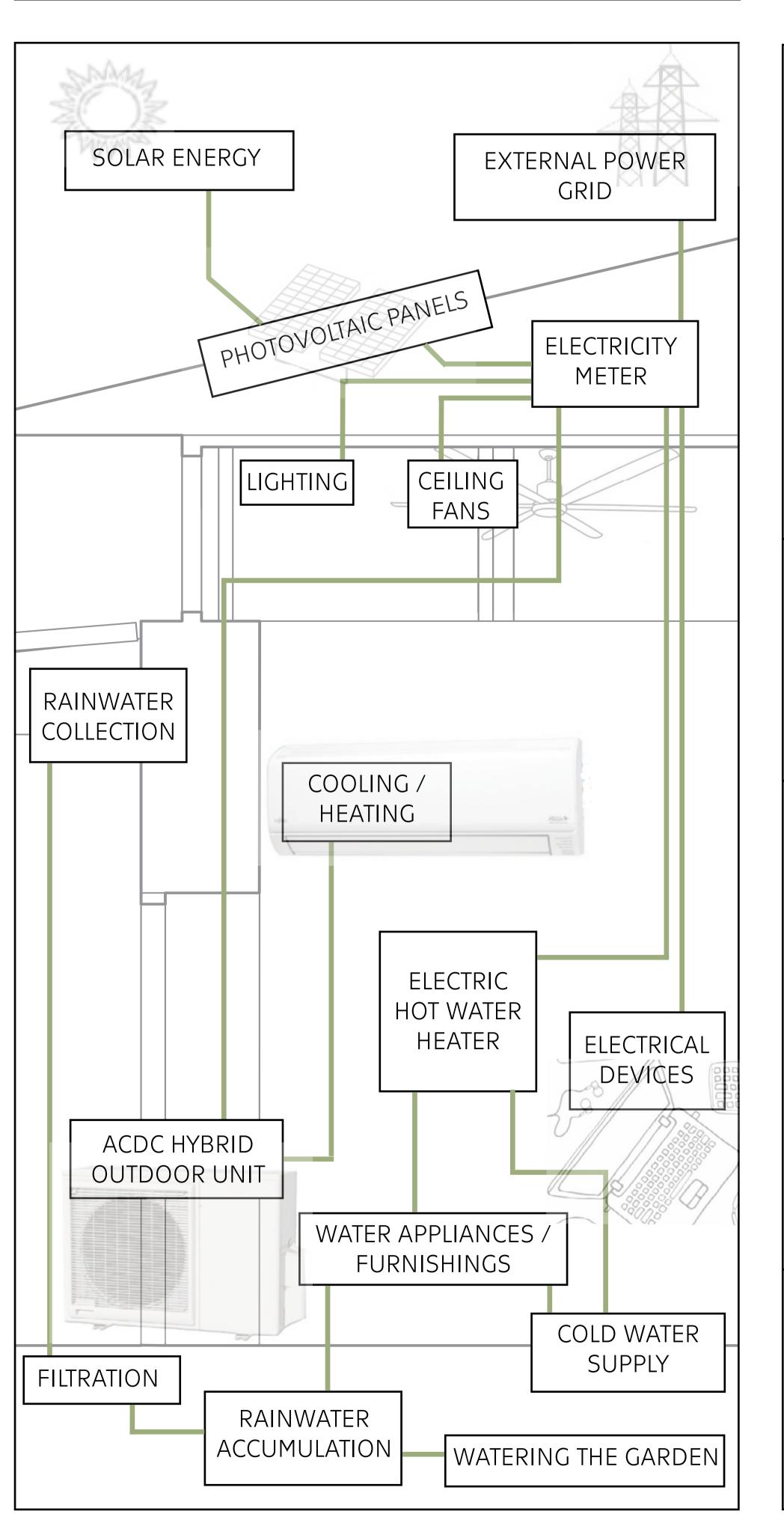
of connection of the roof structure.

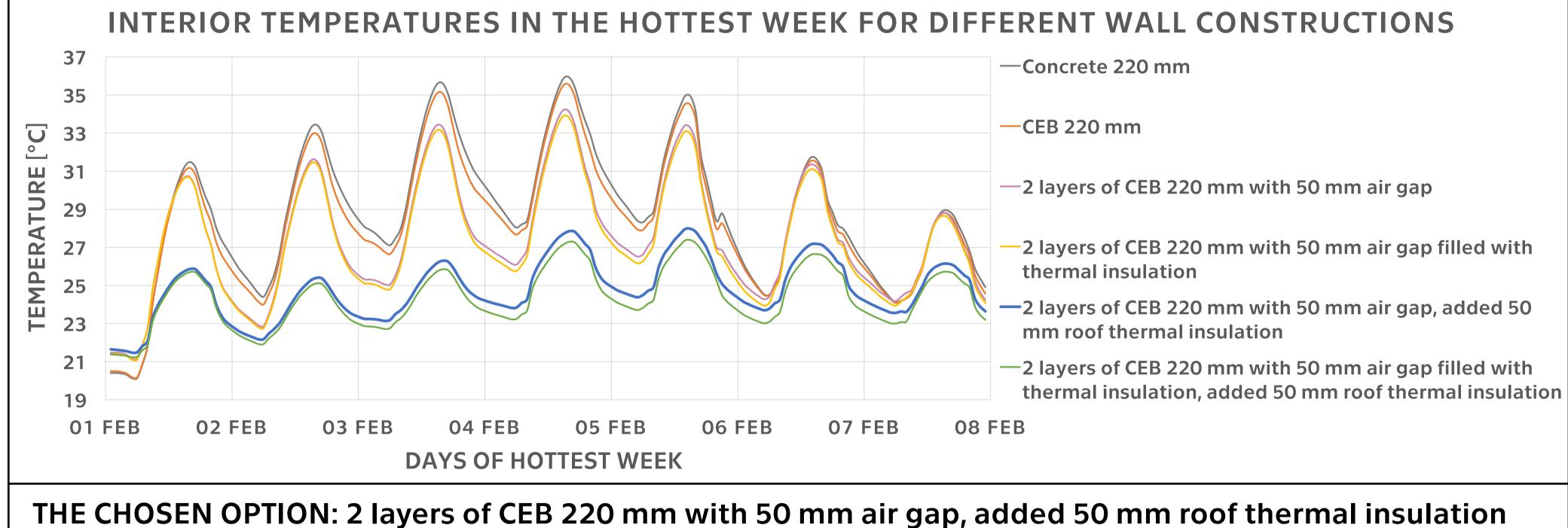
concrete slabs.





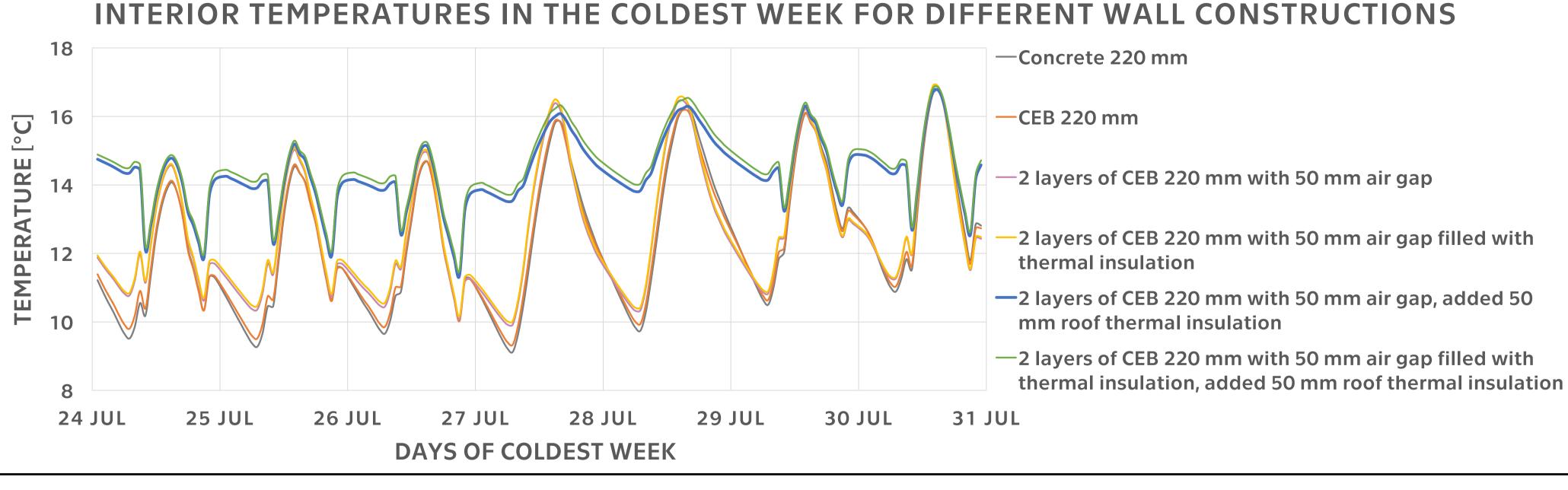






## The average indoor and outdoor temperatures for the selected variant during the hottest week are shown in the following table

DAY	1 FEB	2 FEB	3 FEB	4 FEB	5 FEB	6 FEB	7 FEB
INDOOR TEMPERATURES AT 15:00	25,7 °C	25,3 °C	26,2 °C	27,7 °C	27,4 °C	27,2 °C	26,1 °C
OUTDOOR TEMPERATURES AT 15:00	34,9 °C	37,1 °C	39,5 °C	38,9 °C	37,0 °C	31,6 °C	29,4 °C



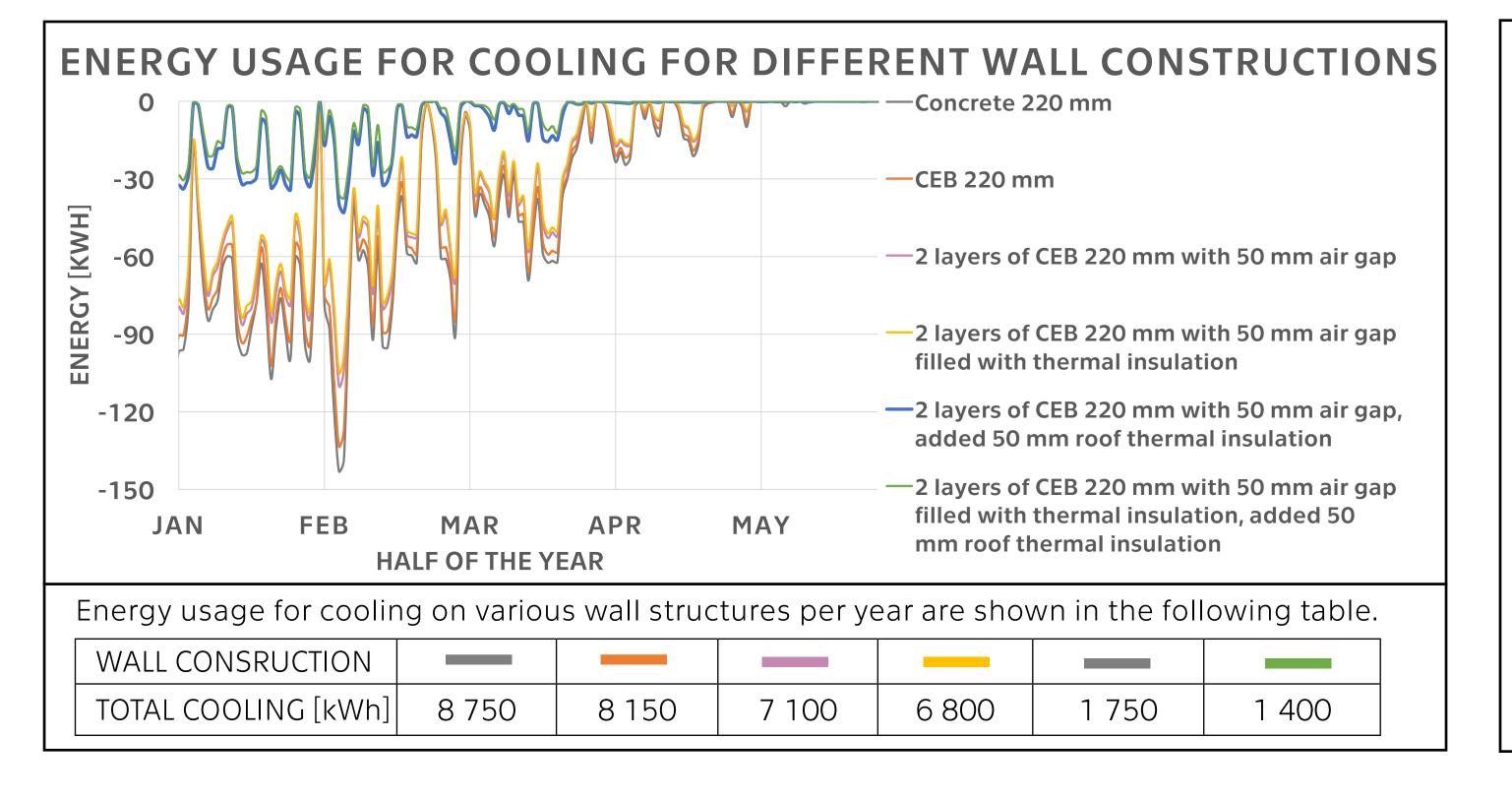
## THE CHOSEN OPTION: 2 layers of CEB 220 mm with 50 mm air gap, added 50 mm roof thermal insulation The average indoor and outdoor temperatures for the selected variant during the coldest week are shown in the following table

26 JUL

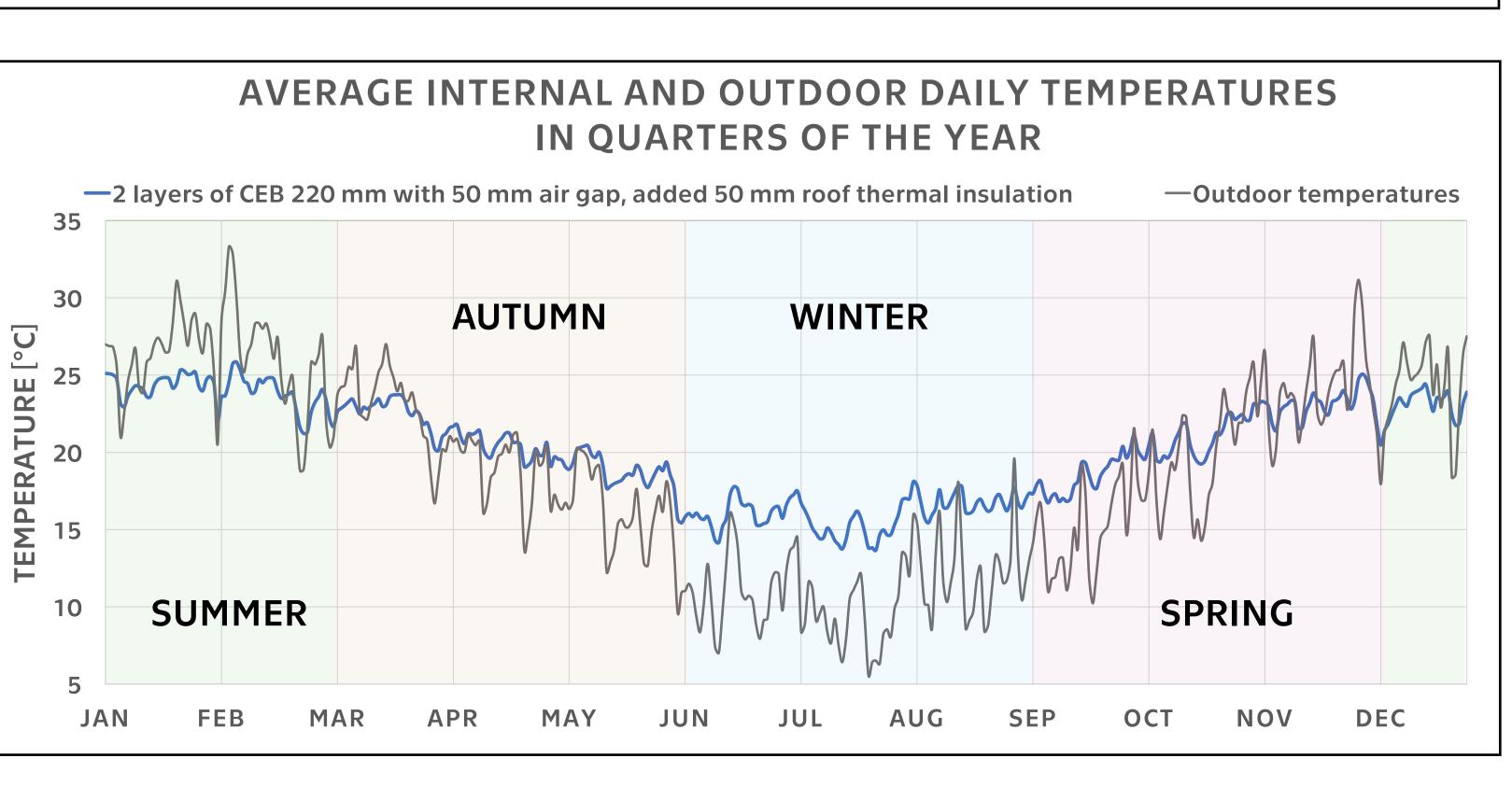
INDOOR TEMPERATURES AT 8:00	14,5 °C	14,1 °C	14,0 °C	13,8 °C	14,1 °C	14,4 °C	14,6 °C
OUTDOOR TEMPERATURES AT 8:00	2,2 °C	2,9 °C	4,0 °C	2,4 °C	4,0 °C	4,6 °C	3,4 °C

25 JUL

24 JUL



DAY



27 JUL

28 JUL

29 JUL

30 JUL