The Arnamagnæan Archive in Copenhagen University is behind the windowless stretch of wall.
Cutaway showing the archive construction

gypsum board ceiling
absorbent blocks 50mm
cement 240mm
insulation to outside 50mm
insulation to inside 200mm
The interior is 10 x 4 x 3 m
The principle of conservation heating to a constant RH with varying temperature
How the temperature is controlled
The archive weather over seven years

The spikes show the office temperature and RH.
Outside temperature from the Danish Meteorological Institute.
The powerful effect of ventilation when the outside air has a suitable water vapour content
Stress testing the buffering by pumping continuously February to April then no pumping June to August.
The span between raw and buffered RH
The mixing ratio is used to describe the effect of air infiltration.
The carbon dioxide concentration is raised both by visitors and by pumping outside air.
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