







Solar Energy Volume 122, December 2015, Pages 820-833



Ventilated Trombe wall as a passive solar heating and cooling retrofitting approach; a low-tech design for offgrid settlements in semi-arid climates

+ Add to Mendeley < Share ** Cite

Marwa Dabajeh * 2 PS - Ahmed Elbably * PS

Trombe Walls

Using a Trombe wall which is part of an exterior wall composed of a glazing surface directed at sun exposure behind the glazing there is an air void then a thermal mass wall made out of compressed earth blocks painted black to absorb the solar radiation and store heat behind the glazing and in the high thermal mass wall

Energy Efficiency

Passive use of solar

Low-tech design





