

STURM FABRIK

STORM FACTORY

NEOVERNACULAR
BY THE MEANS OF ARCHITECTURE

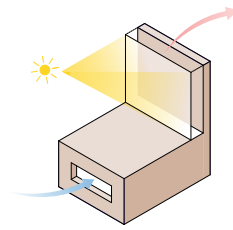
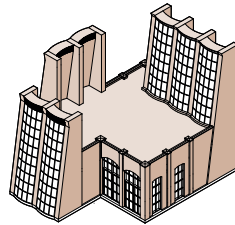
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How can we (once again) construct buildings in such a way that they can provide at least the minimum requirements for warmth, coolness, light, fresh air and comfort from within themselves?

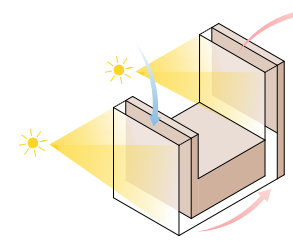
How can the climatic potential of a location be exploited through appropriate architecture without resorting to technical compensation systems or building services?

How should the basic design tools offered by architecture itself, the physical properties of materials and the sufficient possibilities for using spaces and buildings be applied to achieve this?

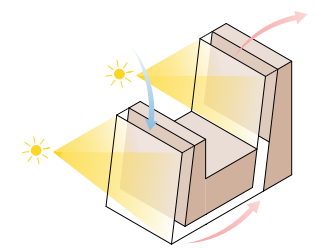
The Sturmfabrik answers these questions as a self-sufficient building, using a combination of three solar chimneys to cool this neighborhood center in summer and precondition fresh air in winter, with the result of up to 93% less ventilation heat losses in winter and a shortened heating period of four instead of seven months. For this, the Sturmfabrik does not use any external resources apart from sun and wind.



Solar chimney as a means
of extracting warm air

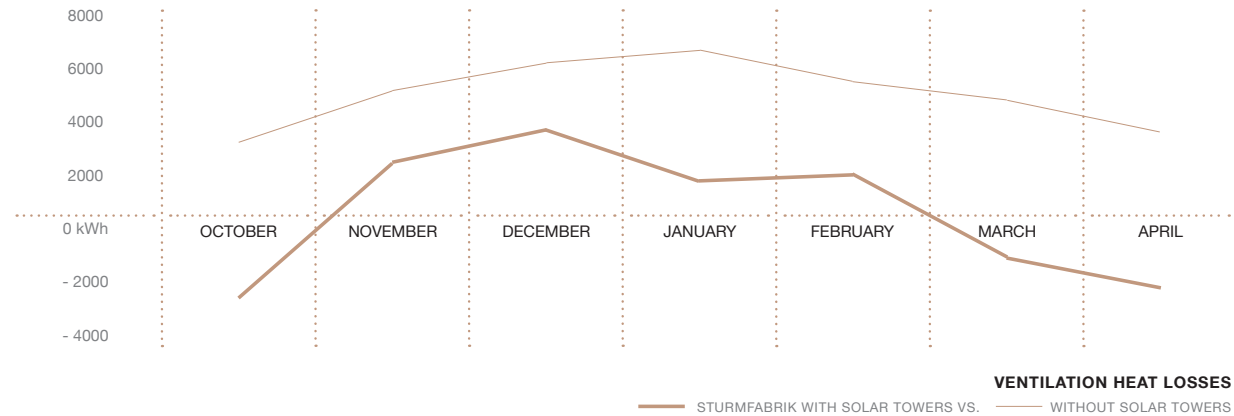


Combination of two
solar chimneys as supply air
and exhaust air towers



Tilt of towers for
static stabilisation

CONCEPT



EXTERIOR PERSPECTIVE



INTERIOR PERSPECTIVE