

**WET AIR STACKS FOR A DRYING CHAMBER  
IN A BRICKWORKS**



**Venting damp air out of a drying chamber in a brickworks into the atmosphere through stacks**



**VENTAFLEX®**



Greater efficiently in air ducts



## Wet air stack in a brickworks

### Venting the wet air into the atmosphere through stacks



Regardless of whether the brickworks manufactures facing bricks, roof tiles, facade elements, paving bricks, or floor tiles, every manufacturing process involves extracting water, which is conducted away as steam.

For conventional steel ducts with external insulation and aluminium sheet sheathing, this high moisture content generally leads to corrosion with time.

Steel is also an expensive material.

People looked for alternatives and found them: VENTAFLEX.

#### The task

1. At most 22,000 m<sup>3</sup>/h of wet air needed to be discharged per stack, with a temperature between 30 °C und 60 °C
2. The relative humidity of the air ranges from 10% to 100%. The equipment should be protected against
3. corrosion to ensure a long service life.
3. Installation should occur within a short period of time.
4. Costs for materials and custom products should be kept low.

#### The VENTAFLEX solution

- ▶ 1. Two stacks with a length of 6.5 m and a diameter of 1090 mm were installed. The delivery included gauge connections, a condensate outlet, and built-in connection flanges
- ▶ 2. Ventaflex ducts consist of rigid polyurethane foam with GRP surfaces made of fibreglass and polyester resin. Thus they are diffusion-resistant and cannot corrode.
- ▶ 3. The ducts are 70% lighter and can thus be installed more quickly and easily. Furthermore, no additional insulation was needed.
- ▶ 4. Standard available components and ready solutions were used for the connection to the roof surface.

#### Overview of advantages

- **Costs savings** in the materials
- **Long service life** thanks to corrosion protection
- **No additional insulation necessary** thanks to the excellent thermal conductivity (WLG 022)
- **Up to 70% weight reduction** - important for the structural engineering and handling
- **Rapid individual adaptations**



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Further references at [www.ventaflex.de](http://www.ventaflex.de)

