



Kompozit'allUK

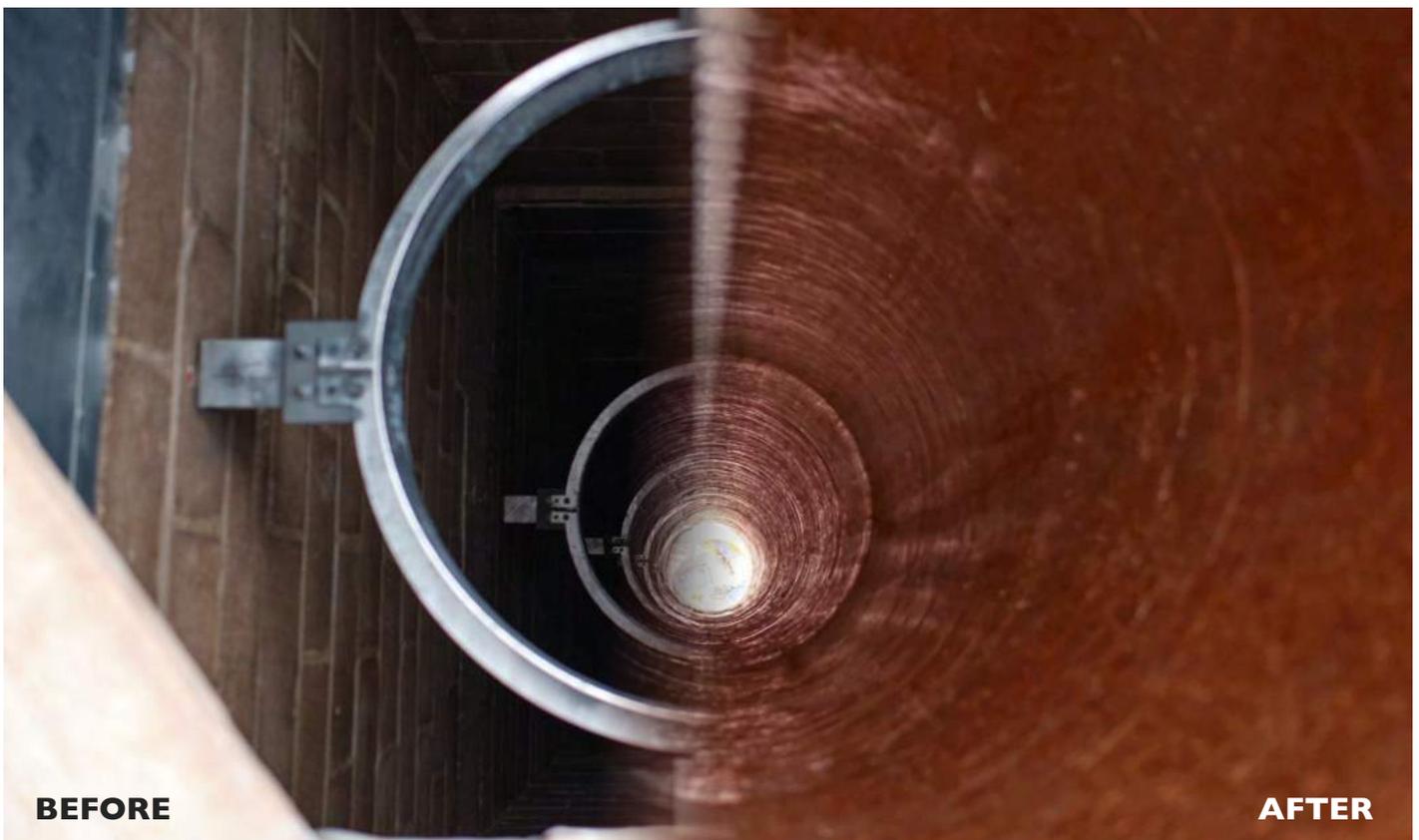
guaranteed lining solutions

case studies

Portsmouth Hospital - Kitchen Extraction System Restoration

SUMMARY

- **application area:** commercial kitchen / fast food restaurant
- **use type:** kitchen extraction and ventilation
- **project scope:** to line the greased-up kitchen ventilation shaft
- **added value:** 25-year guarantee on liner, quick and clean install, non-destructive



BACKGROUND

The Queen Alexandra Hospital in Cosham, Portsmouth, serves the city of Portsmouth and the surrounding area, with over 1,400 beds and has a busy commercial kitchen supplying restaurants and residents. Increasing reports of fumes from the greased-up extraction ducts (brick shafts) have been a concern.

One of the remaining three shafts had been in use without a kitchen extract liner for the extraction of kitchen gases. This was a concern as during kitchen extraction grease build-up can create a fire hazard. The greasy condensate can also breach the brick walls, which can result in unpleasant odours within the building.



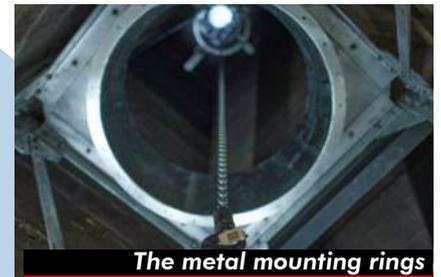
Steam generators are used to solidify the liner



Queen Alexandra Hospital - Portsmouth

To minimise downtime, it was decided to build the new kitchen extract flue system within the shaft section which had been made redundant. Due to the restricted size of the available space within the shaft, access was an issue and conventional ducting solutions had to be ruled out.

VentilFlex-25 kitchen extract lining system was the chosen alternative lining method, with its jointless design, excellent heat resistance and fire rating, and crucially, an installation method that only required access at the top and the bottom of the riser. A stainless-steel rig was installed into the walls of the riser to support the 1-meter diameter, 25-meter-long liner. This was necessary as the liner would not be supported by the brick walls of the riser.



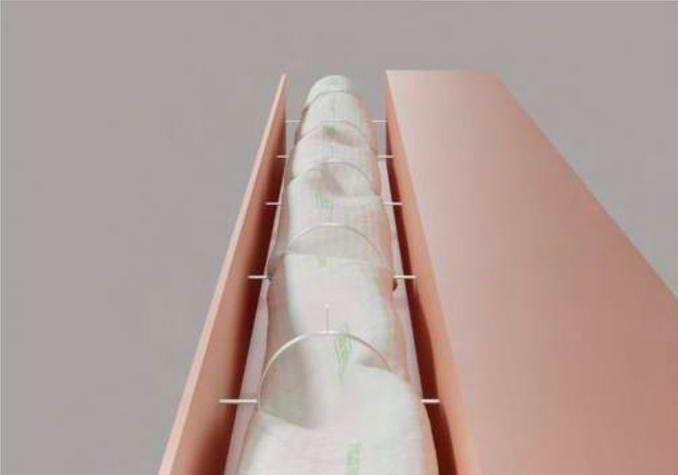
The metal mounting rings



Once the VentilFlex-25 liner is in position, the steaming can begin...

INSTALLATION

The installation of the liner was completed within the day from insertion to the finished product. Following the installation, the existing kitchen exhaust system was re-connected into the shaft with the new VentilFlex-25 liner inside.



The VentilFlex-25 liner in its uninflated raw state



The VentilFlex-25 liner after inflation and curing

The VentilFlex-25 liner is supplied as a single-length, jointless and flexible piece of material. It is a composite, heat-resistant-resin impregnated fibre design, which needs to be pressurised and heated during installation to gain its final shape and strength. Following correct installation by a Kompozit'All UK certified installer, the liner comes with a 25-year manufacturer warranty.



The finished heat- and fire-resistant VentilFlex-25 RKV liner

All projects are undertaken by Kompozit'All UK's nationwide network of registered chimney engineers. We will only allow annually retrained, certified and approved engineers to install FuranFlex-25 and VentilFlex-25. They will follow a code of practice and upon completion issue the fully comprehensive 25-year product guarantee.

With technical questions and to find your nearest engineer, please visit www.kompozitalluk.com

Address: 9 Birch Crescent, Aylesford, ME20 7QE
Telephone: 01622 717374
Email: inquiry@kompozitalluk.com
[linkedin.com/company/kompozitall-uk-ltd/](https://www.linkedin.com/company/kompozitall-uk-ltd/)

