



Kompozit'allUK

guaranteed lining solutions

case studies

Central London Kitchen Extract Relining

SUMMARY

application area: commercial kitchen

use type: extract cooking gases

project scope: line existing chimneys, maximise flue opening

added value: access only possible using soft and flexible lining



BACKGROUND

Two chimneys were to be used as ventilation ducts to extract the cooking gases from a commercial kitchen. The risers would cover 6 floors from the basement all the way to the roof of the building.

Due to the extremely tight access at the base of the ducts to be lined, the only viable lining solution was VentilFlex-25. The liner is supplied soft and folded, it is rolled out on site and inflated once it's in position. Steam is pumped into the liner, this pushes the liner walls out to meet the flue dimensions, providing maximum lined flue size.



The building under renovation.



VentilFlex-25 liner before steaming.

The required linings were produced in a 450mm and 425 diameter size, which was calculated based on the rectangular flue dimensions to provide the best fit and to stretch into the corners. The resulting liner is a single-length tube with excellent corrosion resistance properties.



VentilFlex-25 liner during steaming.



The lined duct.

The size and length of the liners is determined with a camera survey that is completed before the installation. Heating the liners with steam will cause a chemical reaction which sets the material harder than steel. This irreversible process enables the material to develop its characteristics of corrosion and heat resistance and smooth inner surface.

Following the installation the ducts are prepared to work with the kitchen extraction system, with the connections getting fitted and sealed. Thanks to the expert installation and strong product quality control, both liners come with a product guarantee of 25 years.

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 25-year product guarantee.

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