



This is the most innovative system for the renovation of the chimney flues which combines the most advanced material with Italian ingenuity.

The sole inflatable chimney liner being used worldwide to restore chimney flues.

FITFIRE®

A simple, rapid, certified Italian solution for the non destructive restoration of chimney flues for use with non-condensing boilers.



The innovative system allows the restoration of obsolete chimney flues offering a definitive and made-to-measure solution that avoids replacement of pipes and masonry work while providing the certainty of a chimney flue that is as good as new, long-lasting, guaranteed and certified.

During the installation **FITFIRE®** is perfectly moulded to the form of the liner like a second skin following the directions and curves of the existing flue thanks to the experience of Beca Engineering's labs and the use of high-tech composite materials.

The end result is full restoration of the flue in a single monolithic flue system without any joints thus eliminating any potential loss or leakage.

FITFIRE®

The all-italian, simple, fast and certified solution for the non-destructive rehabilitation of flues.

ADVANTAGES

- Reduced installation time:** about one third of that of standard tubing system
- MINIMAL DISTURBANCE:** does not usually require masonry work (less time, less dust)
- INSULATING MATERIAL:** improves rate of flue gas evacuation
- SELF-SUPPORTING MATERIAL:** does not require anchoring.
- CONFORMATION:** monolithic structure without any joints.

TECHNICAL CHARACTERISTICS

-T160 P1 D2 O40; T200 N1 D2 O40 (EN 1443:2003)

-Product certified CE

-Fire reaction Class: B -s1, d0

-Flow Resistance : $r = 0,00035 \text{ m}$

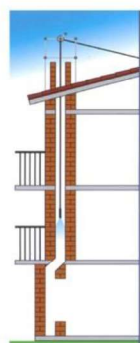
-Thermal Resistance: $0,17 \text{ m}^2\text{K/W}$

-Tensile Strength : $10,5 \text{ MPa}$

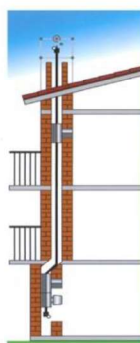
The **FitFire**® thermosetting liner is inserted into the flue duct and inflated using steam which allows it to mould perfectly to the shape of the existing flue, like a second skin and covers the whole surface in a total seal.

The Fitfire liner adheres fully to any chimney duct creating a new internal surface providing a perfect heat and smoke tightness

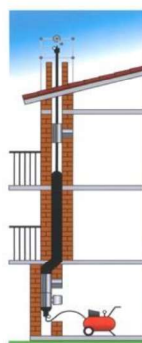
INSTALLATION



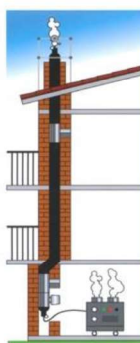
Phase 1
Video Inspection
of chimney



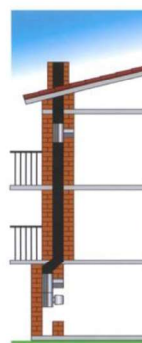
Phase 2
Insertion of steel
collars for boiler
or ducts



Phase 3
Insertion of liner.
Connection of bush
coupling with
pressure gauge.



Phase 4
Inflation with
steam.



Phase 5
End polymerization
and cut of the liner.
Take out the internal
plastic bag. Seal with
epoxy putty on the rim
of the cuts.



FITFIRE®

THE INNOVATIVE SYSTEM OF THE RESTORATION OF CHIMNEY FLUES
WITHOUT THE NEED OF MASONRY WORK.

Beca Engineering s.r.l.

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