




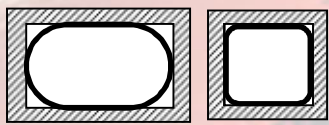
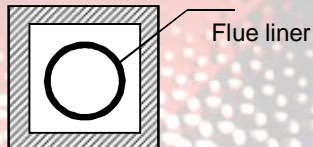
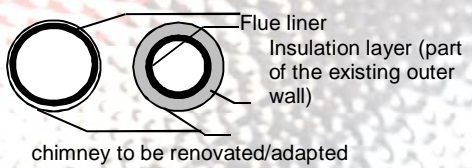
0989

DECLARATION OF CONFORMITY

Product trade name

FitFire/FitFirePlus

Manufacturer's identification	Beca Engineering s.r.l. Via Magnago 2 20010 Buscate (MI) Italy www.becaitalia.it info@becaitalia.it
Year of affixing CE marking	13
Number of EC certificate for the FPC	0989-CPD-1133
European Technical Approval (ETA) number	ETA-13/0682
Certification office	OIB, Schenkenstraße 4., Wien, 1010 Austria
Notified Body	BTI, Karl Leitl Straße 21.,Linz/Puchenau, 4048 Austria
Type of product and intended use	Kit consisting of chimney flue liner, made of flexible compound of glass fibres and synthetic organic substances, and ancillaries for classification T 160 P1 W2 Oxx (FITFIREPLUS) T 160 P1 D2 Oxx and T 200 N1 D2 Oxx (FITFIRE)

FitFire/FitFirePlus design situation		Classification by EN 1443:2003
1a		FITFIREPLUS: T160 P1 W2 O40 FITFIRE: T160 P1 D2 O40 FITFIRE: T200 N1 D2 O40
1b		FITFIREPLUS: T160 P1 W2 O40 FITFIRE: T160 P1 D2 O40 FITFIRE: T200 N1 D2 O40
2		FITFIREPLUS: T160 P1 W2 O40 FITFIRE: T160 P1 D2 O40 FITFIRE: T200 N1 D2 O40
3		FITFIREPLUS: T160, P1 W2 O FITFIRE: T160, P1 D2 O FITFIRE: T200 N1 D2 O

Thermal resistance values for different design situations for FITFIRE / FITFIREPLUS (T160)			
Internal diameter	Design situation according to Annex 1 of ETA-13/0682	Result ($\frac{m^2K}{W}$)	Thermal Resistance
0,195 m	no. 1a	0,113	R11
	no. 1a with insulation of thickness 25 mm	0,537	R54
	no. 1b	NPD*	NPD*
	no. 2 (without ventilation)	0,171	R17
	no. 2 (with ventilation)	0,145	R15
	no. 2 (without ventilation; with insulation of thickness 25 mm)	0,629	R63
	no. 2 (with ventilation; with insulation of thickness 25 mm)	0,583	R58
	no. 3 (without thermal insulation)	0,00987	R01
	no. 3 (with thermal insulation of thickness 25 mm)	0,45388	R45

* NPD: No performance determined

Thermal resistance values for different design situations for FITFIRE / FITFIREPLUS (T200 D2)			
Internal diameter	Design situation according to Annex 1 of ETA-13/0682	Result ($\frac{m^2K}{W}$)	Thermal Resistance
0,195 m	no. 1a	0,109	R11
	no. 1a with insulation of thickness 25 mm	0,404	R40
	no. 1b	NPD*	NPD*
	no. 2 (without ventilation)	0,152	R15
	no. 2 (with ventilation)	0,127	R13
	no. 2 (without ventilation; with insulation of thickness 25 mm)	0,491	R49
	no. 2 (with ventilation; with insulation of thickness 25 mm)	0,445	R45
	no. 3 (without thermal insulation)	0,00987	R01
	no. 3 (with thermal insulation of thickness 25 mm)	0,45388	R45

* NPD: No performance determined

Main design characteristics	
Compressive strength	10,5 Mpa
Maximum vertical height	212m
Maximum non-vertical height	36m
Maximum inclination	45°
Flow resistance	0,00035
Freeze/thaw resistance	Passed
Classification of reaction to fire	<ul style="list-style-type: none"> • FITFIRE / FITFIREPLUS: B -s1, d0, • Steel elements: A1 • Sealing rings: E/F • Insulation (including outer textile) when assembled with FITFIRE / FITFIREPLUS: A2-s1, d0
Reaction to fire of the kit	No harmonized verification method -NPD*
Dangerous substances	No health impact during installation, under operating temperature and under higher temperature

This document is valid with **ETA-13/0682** and certificate for conformity of FPC

30/06/2013

dott. ing. Carlo Lezzi
CEO

