

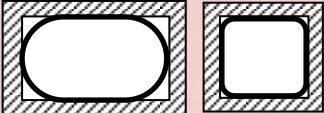
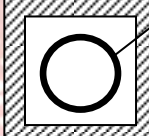


0989

DECLARATION OF PERFORMANCE

Product trade name
FitFire

Manufacturer's identification	Beca Engineering s.r.l. Via Nuova Rivoltana 2/A 20090 Segrate (MI) Italy www.becaitalia.it info@becaitalia.it
Year of affixing CE marking	13
European Technical Approval (ETA) number	ETA-13/0682
Certification office	OIB, Schenkenstraße 4., Wien, 1010 Austria
Notified Body	OFI GmbH; 1030 Wien, Franz-Grill-Straße 5, Objekt 213
Factory Production Control	OFI GmbH; 1030 Wien, Franz-Grill-Straße 5, Objekt 213
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 D2 Oxx (Fitfire), T160 P1 W2 Oxx (Fitfire) and T 200 N1 D2 Oxx (Fitfire)
Validity	From 24 th January 2019

FitFire design situation		Classification by EN 1443:2003
1a	 Chimney to be renovated/adapted	FITFIRE: T160 P1 D2 O40 FITFIRE: T160 P1 W2 O40 FITFIRE: T200 N1 D2 O40
1b		FITFIRE: T160 P1 D2 O40 FITFIRE: T160 P1 W2 O40 FITFIRE: T200 N1 D2 O40
2	 Flue liner	FITFIRE: T160 P1 D2 O40 FITFIRE: T160 P1 W2 O40 FITFIRE: T200 N1 D2 O40
3	 Flue liner Insulation layer (part of the existing outer wall) chimney to be renovated/adapted	FITFIRE: T160 P1 D2 O40 FITFIRE: T160 P1 W2 O40 FITFIRE: T200 N1 D2 O40

Thermal resistance values for different design situations for FITFIRE (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 (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	Performance	Harmonised Technical Specification
Compressive strength	10,5 Mpa	
Maximum vertical height	212m	EN 1856-1 and EAD 060016-00-0802
Maximum non-vertical height	36m	EN 1856-1 and EAD 060016-00-0802
Maximum inclination	45°	EAD 060016-00-0802
Flow resistance	r = 0,00035m	EN 13216:2004
Freeze/thaw resistance	Passed	EN 13216:2004
Classification of reaction to fire	- FITFIRE B –s1, d0, - Steel elements: A1 - Sealing rings: E/F - Insulation (including outer textile) when assembled with FITFIRE A2-s1, d0	13501-1:2007 and A1:2010 Insulation: EN 14303
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 (600°C)	EAD 060016-00-0802

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

24-01-2019

dott. ing. Carlo Lezzi
CEO