
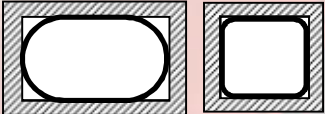
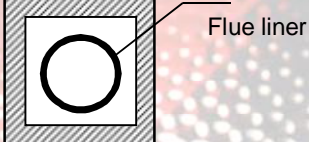
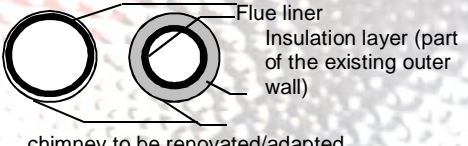
	<h1>DECLARATION OF PERFORMANCE</h1>
<b>Product trade name</b>	<b>FitFire/FitFirePlus</b>

<b>Manufacturer's identification</b>	<b>Beca Engineering s.r.l.</b> <b>Via Magnago 2</b> <b>20010 Buscate (MI)</b> <b>Italy</b> <a href="http://www.becaitalia.it">www.becaitalia.it</a> <a href="mailto:info@becaitalia.it">info@becaitalia.it</a>
<b>Year of affixing CE marking</b>	<b>13</b>
<b>Number of EC certificate for the FPC</b>	<b>0989-CPD-1133 date: 28/06/2013</b>
<b>European Technical Approval (ETA) number</b>	<b>ETA-13/0682</b>
<b>Certification office</b>	<b>OIB, Schenkenstraße 4., Wien, 1010 Austria</b>
<b>Notified Body</b>	<b>BTI, Karl Leitl Straße 21.,Linz/Puchenau, 4048 Austria</b>
<b>Type of product and intended use</b>	<b>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)</b>
<b>Validity</b>	<b>24/06/2018</b>

FitFire/FitFirePlus design situation	Classification by EN 1443:2003
<b>1a</b> 	FITFIREPLUS: T160 P1 W2 O40 FITFIRE: T160 P1 D2 O40 FITFIRE: T200 N1 D2 O40
<b>1b</b> 	FITFIREPLUS: T160 P1 W2 O40 FITFIRE: T160 P1 D2 O40 FITFIRE: T200 N1 D2 O40
<b>2</b> 	FITFIREPLUS: T160 P1 W2 O40 FITFIRE: T160 P1 D2 O40 FITFIRE: T200 N1 D2 O40
<b>3</b> 	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	Performance	Harmonised Technical Specification
Compressive strength	10,5 Mpa	
Maximum vertical height	212m	EN 1856-1 and CUAP 08.02/25bis-1
Maximum non-vertical height	36m	EN 1856-1 and CUAP 08.02/25bis-1
Maximum inclination	45°	CUAP 08.02/25bis-1
Flow resistance	r = 0,00035m	EN 13216:2004
Freeze/thaw resistance	Passed	EN 13216:2004
Classification of reaction to fire	<ul style="list-style-type: none"> <li>FITFIRE / FITFIREPLUS: B -s1, d0,</li> <li>Steel elements: A1</li> <li>Sealing rings: E/F</li> <li>Insulation (including outer textile) when assembled with FITFIRE / FITFIREPLUS: A2-s1, d0</li> </ul>	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)	CUAP 08.02/25bis-1

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

30/06/2013

dott. ing. Carlo Lezzi

CEO