



EC – DECLARATION OF CONFORMITY

Issued in accordance with the Construction Products Directive 89/106/EEC

Product: **Double-wall insulated stainless steel
System chimney**

Trade name: **“Serie J “**

Manufacturer: **F.F. BOFILL, S.A.
PI Vilaseca,1
08571 SAN VICENC DE TORELLO
(Barcelona ESPANA)**

Production site: **08571 SAN VICENC DE TORELLO**

We declare under our responsibility that the above mentioned product(s) meet all provisions concerning the essential requirements of the following harmonised standard:

EN 1856-1:2003

Chimneys - Requirements for metal chimneys - Part 1: System chimney products

The certification of factory production control is performed by:

**AENOR
Genova, 6
28004 MADRID
Country : ESPANA
Notified Body No. 0099**

The factory production control certificate number:

0099/CDP/A71/0002

Date of issue: 2005-05-20

SANT VICENC DE TORELLO, 2008-06-25

Managing Director

Marking of accompanying documents according to EN 1856-1, Annex ZA - figure ZA 2:

TRADE NAME	TYPE	PRODUCT DESIGNATION (Annex to Certificate N.0099/CPD/A71/0002)									
INOX-INOX -Inner wall 1.4301 thickness 0,4 mm -Mineral fiber insulation 120 kg/m ³ thickness 30mm -Outer wall 1.4301 thickness 0,4 mm	Double wall	System chimney									
	With black gasket	EN 1856-1	T200	P1	W	Vm	L20	040	O	50	
	With red gasket	EN 1856-1	T160	P1	W	Vm	L20	040	O	50	
	Without gasket	EN 1856-1	T450	N1	D	Vm	L20	040	G	50	
INOX-INOX -Inner wall 1.4404 thickness 0,4 mm -Mineral fiber insulation 120 kg/m ³ thickness 30mm -Outer wall 1.4301 thickness 0,5 mm	Double wall	System chimney									
	With black gasket	EN 1856-1	T200	P1	W	V2	L50	040	O	50	
	With red gasket	EN 1856-1	T160	P1	W	V2	L50	040	O	50	
	Without gasket	EN 1856-1	T450	N1	D	V2	L50	040	G	50	
INOX-GALV -Inner wall 1.4301 thickness 0,4 mm -Mineral fiber insulation 120 kg/m ³ thickness 30mm -Outer wall DX51D G-Z 200 thickness 0,5 mm	Double wall	System chimney									
	With black gasket	EN 1856-1	T200	P1	W	Vm	L20	040	O	50	
	With red gasket	EN 1856-1	T160	P1	W	Vm	L20	040	O	50	
	Without gasket	EN 1856-1	T450	N1	D	Vm	L20	040	G	50	
INOX-GALV -Inner wall 1.4404 thickness 0,4 mm -Mineral fiber insulation 120kg/m ³ thickness 30mm -Outer wall DX51D G-Z 200 thickness 0,5 mm	Double wall	System chimney									
	With black gasket	EN 1856-1	T200	P1	W	V2	L50	040	O	50	
	With red gasket	EN 1856-1	T160	P1	W	V2	L50	040	O	50	
	Without gasket	EN 1856-1	T450	N1	D	V2	L50	040	G	50	
INOX-COBRE -Inner wall 1.4404 thickness 0,4 mm -Mineral fiber insulation 120 kg/m ³ thickness 30mm -Outer wall CuDHP99,9 thickness 0,5 mm	Double wall	System chimney									
	With black gasket	EN 1856-1	T200	P1	W	V2	L50	040	O	50	
	With red gasket	EN 1856-1	T160	P1	W	V2	L50	040	O	50	
	Without gasket	EN 1856-1	T450	N1	D	V2	L50	040	G	50	

Standard number											
Temperature level											
Pressure level											
Condensate resistance											
Corrosion resistance class											
Flue liner material specification											
Sootfire resistance and Distance to combustible materials (mm)											

Compressive strength: Annex A

Flow resistance:

Mean value of roughness 0,001 m

Thermal resistance:

0,44m²K/W at T200°C

Flexural strength

Tensile strength: Annex A

Non-vertical installation: inox-inox: inox-galva: 2m at 45°
Inox-cobre : 1m at 45°

Wind load: inox-inox: inox-galv:

Maximum free standing height above last support: 2m

Maximum spacing of lateral supports: 4 m

Wind load: inox-cobre

Maximum free standing height above last support: 1m

Maximum spacing of lateral supports: 2,5 m

Freeze-thaw resistance: Yes

Product information

According to EN 1856-1 par.7 and Annex ZA

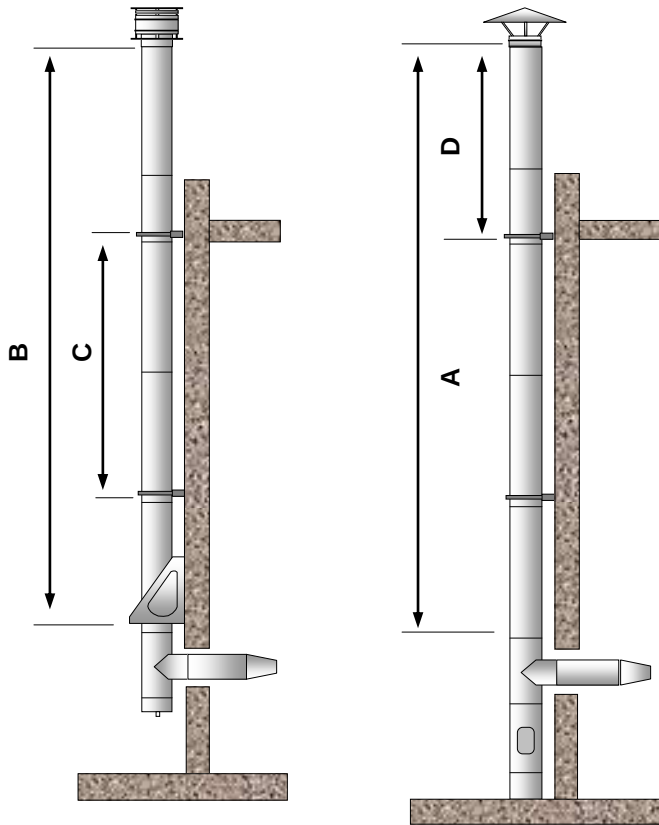
Essential Characteristics Requirement clauses according to EN 1856-1	Value / Class / Informative Data	Document	Additional information
Nominal dimensions (mm) <i>Par. 4 and 5</i>	Available internal diameters Ø mm: 80, 125, 150, 175, 200, 250, 300	Manufacturer's declaration	Product catalogue Annex A
Liner Material Quality: Nominal thickness (Min. thickness) <i>Par. 4 and 5, Par. 6.5.2</i>	AISI 304 (1.4301) Ø 80-300 mm: 0,4 mm (0,375) L20040 AISI 316 L (1.4404) Ø 80-300 mm: 0,40 mm (0,375) L50040	Manufacturer's declaration	
Insulation Loose fill mineral fibre pressure injected	Type: rock wool Density: 120 kg/m³ +30% -0%, thickness: 30 mm. And at both ends washers Density: 175 kg/m³, thickness: 50 mm.	Manufacturer's declaration	
Mechanical resistance and stability <i>Par. 6.1</i>			
Compressive strength <i>Par. 6.1.1</i>	Chimney height, dimensions and weight support: See table in Annex A max height, with 4 m maximum separation distance between consecutive wall bands for vertical installation	Manufacturer's declaration Test report Istituto Giordano N.191017	Annex A
Chimney sections and fittings <i>Par. 6.1.1.1</i>	90° Tee fitting. See table Annex A	Test report Istituto Giordano N.191017 ; N 191016	Annex A
Chimney support <i>Par. 6.1.1.2</i>	Wall bracket support (triangular console). See table in Annex A	Test report Istituto Giordano N.191017; N 191016	Annex A
Tensile strength <i>Par. 6.1.2</i>	See table in Annex A	Test report Istituto Giordano N.191017	Annex A
Lateral strength <i>Par. 6.1.3</i>			
Non-vertical installation:			
Maximum deflection <i>Par. 6.1.3.1</i>	45°	Manufacturer's declaration Test report Istituto Giordano N.191017	Annex A
Maximum length of the slope <i>Par. 6.1.3.1</i>	Inox-inox; inox-galv; 2m inox-cobre 1mm	Manufacturer's declaration Test report Istituto Giordano N.191343	Annex A
Wind load <i>Par. 6.1.3.2</i>	Chimney height & load bearing data: Inox-inox; inox-galv: 2 m max free standing height above last support (wall band). Inox-cobre: 1 m	Manufacturer's declaration Test report Istituto Giordano N.191343	Annex A
Distance to combustible materials at designated Temperature <i>Par. 6.2</i>	for T160°: 50 mm (with red gasket), for T200°: 50 mm (with black gasket) for T450°: 50 mm (without gasket)	Test report Istituto Giordano, N.192271, N 191343	Annex to Certificate N.0099/CPD/A71/00 02

Sootfire resistance <i>Par. 6.2.1</i>	O(50): No G(50): Yes	Test report Istituto Giordano N.191343, N 192271	Annex to Certificate N.0099/CPD/A71/00 02
Gas tightness <i>Par. 6.3</i>	Pressure class P1 (200Pa) Pressure class N1(40Pa)	Test report Istituto Giordano N.192271: N 191343	Annex to Certificate N.0099/CPD/A71/00 02
Safety in use <i>Par. 6.4</i>			
Thermal performance at normal operating conditions <i>Par. 6.4.1</i>	Max temperature of combustible material: < 27,2°C at 50 mm distance (T160 &T200) < 52,4°C at 50 mm distance (T450)	Test report Istituto Giordano N.191343, N.192271	
Accidental human contact <i>Par. 6.4.2</i>	Provide protective shields and/or warning signs in public traffic areas. Only for T 450 (126°C)	Test report Istituto Giordano N.191343, N.192271 National regulations	Installation instructions
Thermal resistance <i>Par. 6.4.3</i>	0,44 m²K/W at T200° C	Test report Istituto Giordano N.191343	
Water vapour diffusion resistance <i>Par. 6.4.4 + Par. 6.4.5</i>	W (Wet) (T160 &T200) D (Dry) (T450)	Test report Istituto Giordano N.192272	Annex to Certificate N.0099/CPD/A71/00 02
Rainwater penetration resistance <i>Par. 6.4.6</i>	Suitable for external installation. Provide drainage	Manufacturer's declaration	
Flow resistance <i>Par. 6.4.7</i>			
Chimney sections <i>Par. 6.4.7.1</i>	Mean value of roughness as per EN13384-1, R = 0,001m, Table B.4	Normative data	
Chimney fittings <i>Par. 6.4.7.2</i>	Coefficient of flow resistance as per EN 13384-1, Table B.8	Normative data	
Terminals <i>Par. 6.4.7.3</i>	Coefficient of flow resistance as per EN 13384-1: "Chinese rain cap terminal" ζ=1.27 "Anti downdraught terminal" ζ=1.14	Manufacturer's declaration Test report Istituto Giordano N.191663, N.191662	
Rain protection terminals <i>Par. 6.4.8.1</i>	Suitable for external installation	Manufacturer's declaration	
Aerodynamic behaviour <i>Par. 6.4.8.2</i>	NPD	Manufacturer's declaration	
Durability of the flue liner against corrosion <i>Par. 6.5.1</i>	Vm (material type and thickness) V2	Manufacturer's declaration Test report: Istituto Giordano N. 191654	Annex to Certificate N.0099/CPD/A71/00 02
Freeze-thaw resistance <i>Par. 6.5.3</i>	Fulfilled according to EN 1856-1	Normative data	

Supplementary information <i>Par. 7.2</i>			
Typical installation drawings		Manufacturer's declaration	Annex A
Assembly method for sections and fittings	(male spigot – female socket type joint) & locking band Ø80-300 Secure joints with locking bands.	Manufacturer's declaration	Installation instructions
Installation method for system chimneys including supports and accessories	Annex A typical installation illustrations	Manufacturer's declaration	Product catalogue Installation instructions
Direction of flow	See indicating arrow mark on elements (fumes flow from male spigot towards female socket).	Manufacturer's declaration	Installation instructions
Storage and handling instructions	Non corrosive environment. Stack parts with caution; avoid damage to protective packaging.	Manufacturer's declaration	Installation instructions
Application of sealant	Fit inside the female groove Red (for T160°) or Black (for T200°) gasket before assembly.	Manufacturer's declaration	Installation instructions
Position of apertures for cleaning and inspection	Complete assembly with inspection – cleaning door element below Tee piece. Include gas fumes probe element at connecting flue pipe or above Tee piece. Provide accessibility.	National regulations Manufacturer's declaration	Installation instructions
Installation of chimney plate to the chimney, cladding or enclosure	As per EN 1443 See example plate below, page 7	National regulations Manufacturer's declaration	Installation instructions
Specific methods or instruments for cleaning	Do not use cleaning instruments made of black steel. Avoid corrosive cleaning agents. Synthetic sponge and nylon brush recommended for sweeping soot.	Manufacturer's declaration	Installation instructions
Recommendations on condensate drainage	Use appropriate condensate drain fitting. Provide proper collection and disposal of acidic liquid.	National regulations Manufacturer's declaration	Installation instructions Appliance technical data
Seal gasket specifications	Triple lip full ring silicon elastomer gasket Max Working Temperature: Red: T160°, Black: T200°	Test report: TÜV-SÜD Nr 944 Red T160°, IMQ N°01SF00050 Black T200°	

The following chimney plate shall be installed on the chimney or on the enclosure:

		Product Name / Όνομα Προϊόντος		SYG3741				08 0407
www.agogos.gr info@gogos.gr 4 Alkiviadou str, Polichni PC 54629 Thessaloniki Greece Tel.+30 23410 92447 Fax.92446		Certificate Number / Αρ.Πιστοποιητικού		0407-CPD-139 (IG-188-2007)/2				
System Chimney / Σύστημα Καπνοδόχου		EN 1856-1 T160-P2-W-Vm-L20040-O30		[]				
System Chimney / Σύστημα Καπνοδόχου		EN 1856-1 T200-P2-W-Vm-L20040-O30		[]				
System Chimney / Σύστημα Καπνοδόχου		EN 1856-1 T600-N1-D-Vm-L20040-G60		[]				
T160: red gasket /κόκκινη φλάντζα, T200: black/μαύρη & T600: no/χωρίς								
Installer information / Πληροφορίες Εγκαταστάτη:								
Designation according to / Περιγραφή κατά EN 1443								
Nominal diameter / Διάμετρος Ø		Minimum distance to combustibles / Ελάχιστη απόσταση από εύφλεκτα υλικά		mm				
Installation address / Διεύθυνση εγκατάστασης		Installation date / Ημερομηνία εγκατάστασης						
Installer Name - Address / Επωνυμία - Διεύθυνση Εγκαταστάτη								
ATTENTION! DO NOT REMOVE OR MODIFY THIS PLATE - IMPORTANT SAFETY INFORMATION ΠΡΟΣΟΧΗ! ΝΑ ΜΗΝ ΑΦΑΙΡΕΘΕΙ Ή ΠΑΡΑΠΟΙΗΘΕΙ Η ΠΙΝΑΚΙΔΑ - ΠΛΗΡΟΦΟΡΙΕΣ ΑΣΦΑΛΕΙΑΣ								



Support and Load Bearing Data

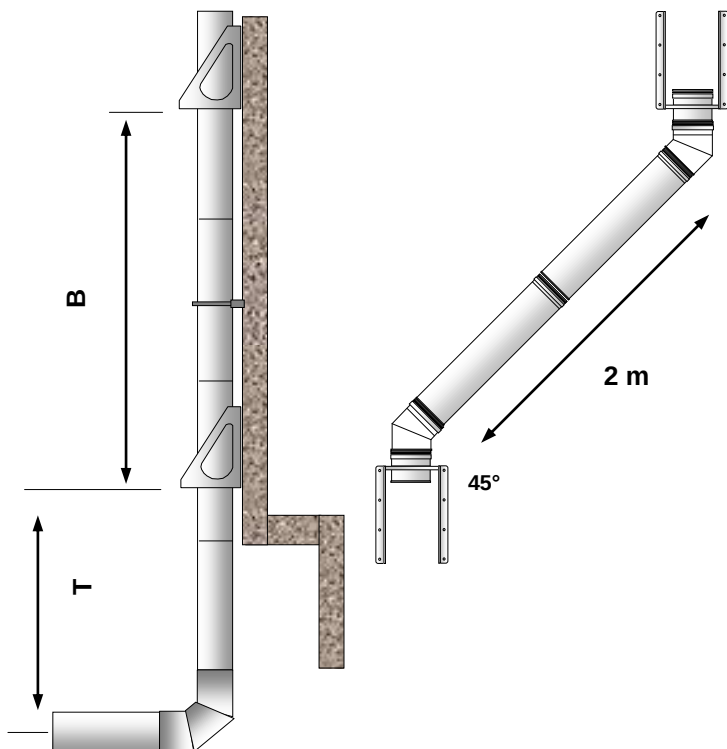
(Recommended values Inox-inox/inox-galv)

$\varnothing$ internal	$\varnothing$ external	A	B	C	D	T
mm	mm	m	m	m	m	m
80	140	40	49	4	2	15
125	185	28	35	4	2	11
150	210	25	30	4	2	9
175	235	22	27	4	2	8
200	260	19	24	4	2	7
250	310	16	19	4	2	6
300	360	14	17	4	2	5

Support and Load Bearing Data

(Recommended values inox-cobre)

$\varnothing$ internal	$\varnothing$ external	A	B	C	D	T
mm	mm	m	m	m	m	m
80	140	19	19	2,5	1	10
125	185	16	19	2,5	1	7
150	210	16	19	2,5	1	6
175	235	15	19	2,5	1	6
200	260	15	18	2,5	1	5
250	310	15	14	2,5	1	4
300	360	13	9	2,5	1	3



LEGEND

A	Maximum supportable section static height above Tee when chimney is supported at base
B	Maximum supportable section static height when chimney is supported on wall bracket (triangular console)
C	Maximum wall band separation distance for external (non-enclosed) installation
D	Maximum free standing height of static chimney section above last wall band support
T	Maximum Tensile (suspended) load on chimney section