ANNEX C

INSTALLATION, USE AND MAINTENANCE

"ECO" Double Wall series

1) INSTALLATION

The installation of chimney begins by fixing the first support of flue system to the floor or to the wall. For floor application, the first element to install is "the base with side condensate drain". For wall application, the first element is the "chimney support", which must be installed as shown in the assembling diagram.

These elements are fixed through 8 mm diameter bolts, which are not supplied standard.

For floor application follows the inspection element, the tee piece to connect the connecting flue pipe to the chimney and the straight elements above; then the chimney terminal.

The max. height above the last support is 1,5 m.

All the elements must be installed with the "bell" (female side) placed upwards and the male side placed downwards to avoid condensate leaks. Elements are fixed with clamps that guarantee stability to mechanical stress.

Non vertical installation is permitted, with maximum deflection of 90°; the maximum length of the slope is:

- 2 m for diameters included between ϕ 80/130 and 200/250 mm;
- 3 m for diameters included between ϕ 250/300 and 400/450 mm.

The brackets on the vertical section must have a space from each other of 2,5 m.

These brackets must be tightened around the chimney using the special bolts to ensure good fixing to the support structure.

2) USE

Chimney must be used in accordance with the connectable thermal capacity and current standards.

3) KIND OF WORKING :
- with negative pressure
- with positive pressure

3.1) Negative pressure working:

When chimney system is working with negative pressure (N1 class), this has the following designation in accordance with the standard EN 1856-1 :

T600 N1 W V2 L50040 G50 for inner diameters from 80 to 300 mm
T600 N1 W V2 L50040 G75 for inner diameters 350 - 400 mm

Where:
T600: temperature class
N1: pressure level

W: condensate resistance, the chimney system is fit for wet working
V2: corrosion resistance class
L50040: specification of inner wall material; material 1.4404 (AISI 316L), thickness 0,40 mm
G50, G75: the chimney system is sootfire resistant and the minimum distance from combustible materials is 50, 75 mm according to the inner diameters above mentioned in the chimney designation.

The chimney system has the inner wall in stainless steel Aisi 316L (1.4404), and the outer wall in stainless steel Aisi 304 (1.4301).
Chimney system working with negative pressure does not have the silicon seal.
The available diameters to use with negative pressure are:
80-130, 100-150, 130-180, 150-200, 180-230, 200-250, 250-300, 300-350, 350-400, 400-450.

3.2) Positive pressure working:
When the chimney system works with positive pressure (P1 class), it has the following designation in accordance with the standard EN 1856-1 :

T200 P1 W V2 L50040 O10 for inner diameters from 80 to 300 mm
T200 P1 W V2 L50040 O15 for inner diameters 350 - 400 mm

Where:
T200: temperature class
P1: pressure level
W: condensate resistance, chimney system is fit for wet working
V2: corrosion resistance class
L50040: specification of inner wall material; material 1.4404 (AISI 316L), thickness 0,40 mm
O10, O15: the chimney system is not sootfire resistant and the minimum distance from combustible materials is 10, 15 mm according to the inner diameters above mentioned in the chimney designation.

The chimney system has the inner wall in stainless steel Aisi 316L (1.4404), and the outer wall in stainless steel Aisi 304 (1.4301).
The chimney system working with positive pressure has the silicon seal to obtain a perfect tightness of elements.
The available diameters for positive pressure working are:
80-130, 100-150, 130-180, 150-200, 180-230, 200-250, 250-300, 300-350, 350-400, 400-450.

4) IDENTIFICATION METAL PLATE OF CHIMNEY SYSTEM
At the end of installation, the installer shall compile the identification metal plate of chimney system (supplied by manufacturer) and shall put it near or at the base of chimney.
On this metal plate shall be written the installer data, the designation of installed flue (according to standard EN 1443), the chimney nominal diameter and the distance from combustible materials declared by manufacturer.

Roccheggiani product designation (with inner wall in stainless steel Aisi 316L (1.4404), outer wall in stainless steel Aisi 304 (1.4301)) according to the standard EN 1443, is:

for negative N1 pressure working : Chimney System EN 1443 T600 N1 W 2 GXX
for positive P1 pressure working: Chimney System EN 1443 T200 P1 W 2 OYY

Where:
T600, T200: temperature class
N1, P1: pressure level (N1 is the negative pressure level, P1 is the positive pressure level)
W: condensate resistance, chimney is fit for wet working
2: corrosion resistance class
G-O: soot fire resistance: G sootfire resistant chimney
O not sootfire resistant chimney
XX, YY: installation distance from combustible materials according to the inner diameters above mentioned in the chimney designation

Hereunder we show an example of the identification metal plate of chimney system.

ROCCHEGGIANI®
care for air

Via 1° Maggio, 10
60021 Camerano (AN) -ITALIA
Tel.+39.071.7300023
Fax.+39.071.7304005
e-mail: info@roccheggiani.it

"ECO / ECO-R" Double Wall Series

CHIMNEY SYSTEM EN 1856-1:

304 T600 N1 W V2 L50040 GXX1)

COPPER FINISH T600 N1 W V2 L50040 GXX1)

Cert. n° 0036 CPD 9811 018

CHIMNEY SYSTEM EN 1856-1:

304 T200 P1 W V2 L50040 OYY1)

COPPER FINISH T200 P1 W V2 L50040 OYY1)

Cert. n° 0036 CPD 9811 019

CE
0036

1) for details of designation see the table below (XX, YY is the distance from combustible materials)

	XX - YY values (distance from combustible materials in mm)			
Inner diameter	Outer wall made of Ai**si 304**		Outer wall made of finish **copper painted**	
	XX	**YY**	**XX**	**YY**
From 80 to 300 mm	50	10	50	10
350 – 400 mm	75	15	75	15

Space for the installer

_____
Designation according to EN 1443

_____ mm
Nominal diameter

_____ mm
Distance to combustible material

Installer: _____
Name

_____
Address

Installation date: _____

ATTENTION: this metal plate shall not be removed or changed !

5) MAINTENANCE

Maintenance of fume duct consists of regular checks of chimney conditions, and visual checks. Controls are carried out also for: the right connection of modular elements, the integrity of internal wall, the cleaning and removal of internal sediments (wall cleaning had to be carried out with materials that do not change the features of stainless steel, for example nylon brushes), the disposal of acid condensations or rain through the discharge, and through the inspection opening for solid materials which may obstruct the right outflow of rain condensates.

6) STORAGE

The elements, during the storing, should be kept in a non-corrosive environment and should not be placed outside the building exposed to state of the atmosphere.
To avoid the crushing they shall not be stored one over the other in vertical position; as a matter a fact the crushing could compromise their performance features.

Note: further information and translations are available on our Internet web site www.roccheggiani.it