

## ANNEX C

### INSTALLATION, USE AND MAINTENANCE

#### “DP” Double Wall series

##### 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.

Then follow the condensate collector, the inspection element, the union tee piece to connect the duct to the chimney and the straight elements above (the max. height above the last support is 2 m); then the chimney terminal.

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.

Brackets on the vertical section must have a space from each other of 2,5 m. These must be tightened around the chimney using the special bolts to ensure good fixing to the support structure.

##### 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

##### Negative pressure working:

When chimney system is working with negative pressure ( N1class ), this has the following designation in accordance with the standard EN 1856-1:2003:

*Flue System EN 1856-1 – T600 – N1 – W – V2 – L50050 – G50*

Where:

T600: temperature class

N1: pressure level

W: condensate resistance, the flue system is fit for wet working

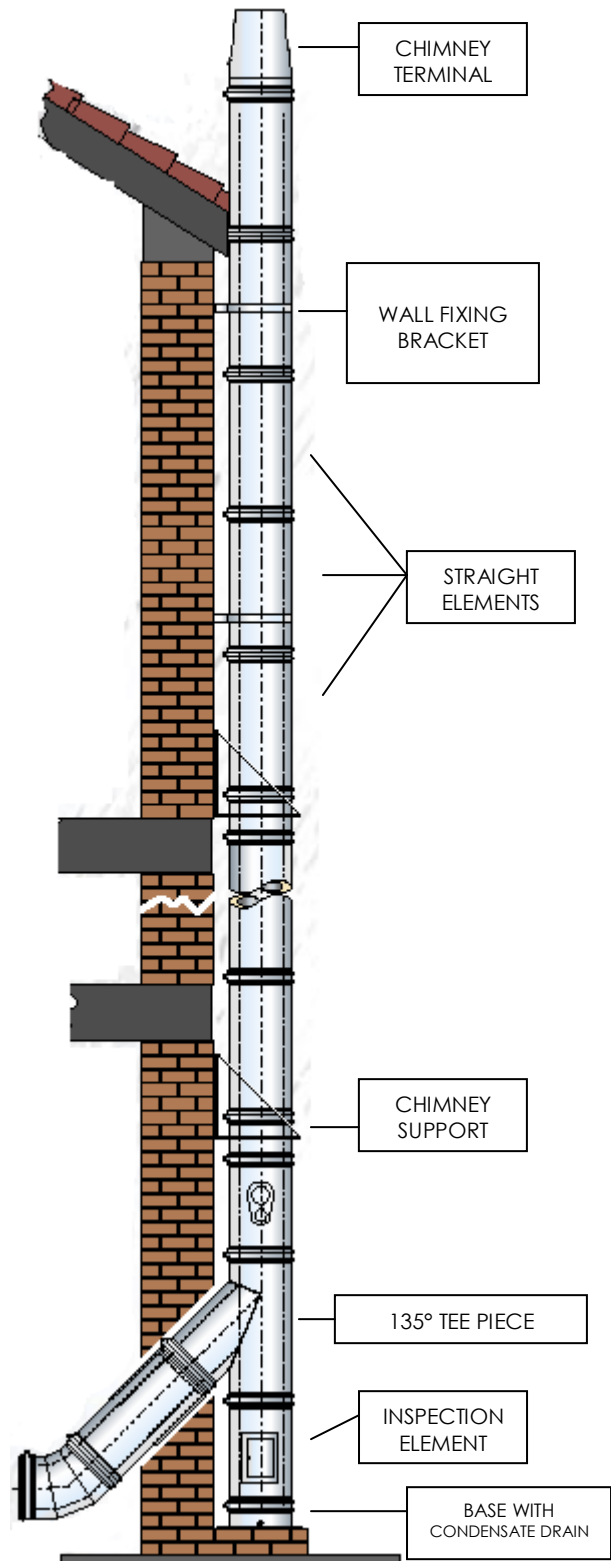
V2: corrosion resistance class

L50050: specification of internal wall material

material: 1.4404 (AISI316L)

thickness : 0,50 mm

G50: the chimney system is soot fire resistant and the min. distance from combustibles shall be 50 mm



*Chimney system working with negative pressure does not has the sealing ring.*

The available diameters to use with negative pressure are:

80/130, 100-150, 130-180, 150-200, 180-230, 200-250, 200-300, 250-350, 300-400, 350-450, 400-500.

Positive pressure working:

When the chimney system works with positive pressure (P1 class ), it has the following designation in accordance with the standard EN 1856-1:2003:

*Flue System EN 1856-1 – T200 – P1 – W – V2 – L50050 – O50*

Where:

T200: temperature class

P1: pressure level

W: condensate resistance, chimney system is fit for wet working

V2: corrosion resistance class

L50050: specification of internal wall material; kind of material: 1.4404 (AISI316L), thickness: 0,50 mm

O50: Chimney system is not soot fire resistant and the allowed min. distance from combustibles shall be 50 mm

*The chimney system working with positive pressure has the sealing ring 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, 200-300.

**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 flue.

On this metal plate shall be written the installer data , the designation of installed flue ( according to standard EN 1443), flue nominal diameter and the distance from combustibles declared by manufacturer.

Roccheggiani product designation according to the standard EN 1443 shall list the following information:

positive pressure working: chimney EN 1443 – T200 – P1 – O – W – 2 – Rxx – C50

negative pressure working : chimney EN 1443 – T600 – N1 – S – W – 2 – Rxx – C50

Where:

T200, T600: temperature class

P1, N1: pressure level (P1 is the positive pressure class, N1 is the negative pressure class )

O-S: soot fire resistance: O non soot fire resistant flue

S soot fire resistant flue

W: condensate resistance, flue is fit for wet working

2: corrosion resistance class

Rxx: thermal resistance, where xx is the value in m<sup>2</sup>K/W multiplied to 100 and rounded off to the nearest integer number (see Annex D for thermal resistance values)

C50: the installation distance from combustibles shall be 50 mm (both for positive pressure and negative pressure working).

**Maintenance**

Maintenance of fume duct consists of regular checks of flue 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.

The elements, during the storing, should be kept in a non-corrosive environment.

*Note: further information and translations are available on our Internet web site [www.roccheggiani.it](http://www.roccheggiani.it)*