

INSTALLATION, USE AND MAINTENANCE

“SP” Single Wall series – Metal Chimney System EN 1856-1:2003

1) INSTALLATION

The installation of chimney begins by fixing the first support of chimney 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 standard supplied.

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 1,5 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.

The installation of chimney system outside the building is allowed until diameter 350 mm.

2) USE

The chimney system 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:

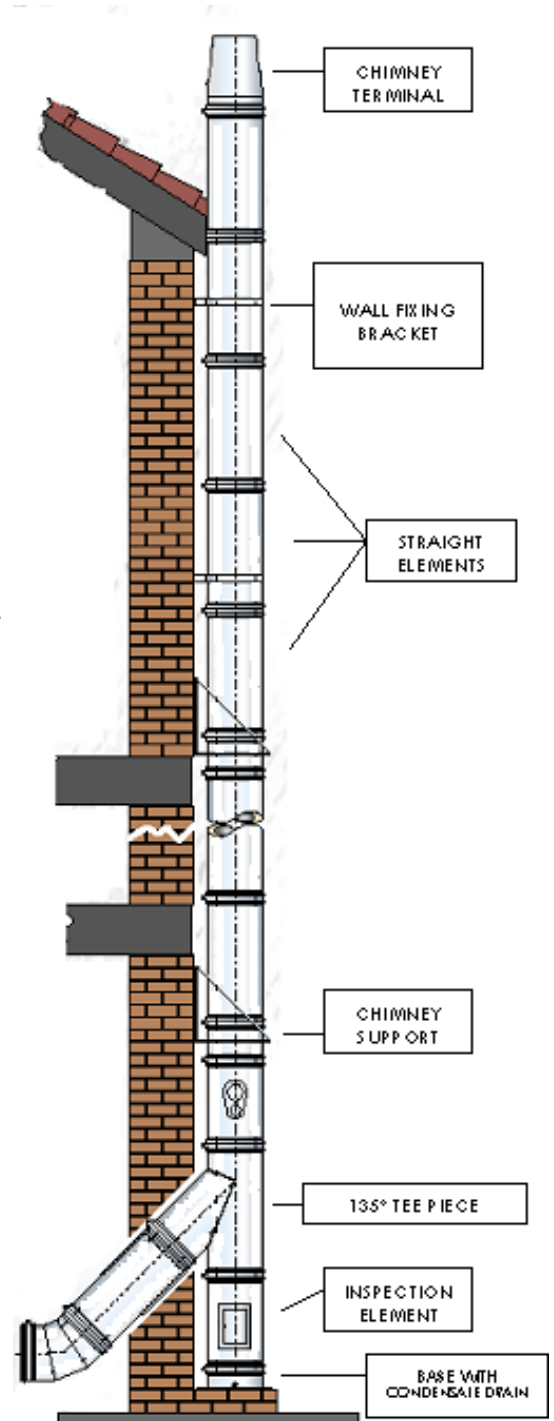
When single wall system made in *stainless steel Aisi 316L (1.4404)* works with negative pressure (N1 class), this has the following designation in accordance with the standard EN 1856-1:2003 :

Chimney System EN 1856-1 T250 N1 W V2 L50050 O60

Where:

T250: temperature class

N1: pressure level



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

V2: corrosion resistance class

L50050: specification of internal wall material

material: 1.4404 (AISI 316L)

minimum thickness : 0,50 mm

O60 : the chimney system is not sootfire resistant and the minimum distance from combustible materials shall be 60 mm

Chimney system working with negative pressure does not has the silicon seal.

The available diameters to use with negative pressure are:

160, 180, 200, 220, 230, 250, 280, 300, 350, 400, 450, 500, 550, 600, 650, 700.

Positive pressure working:

When single wall system made in *stainless steel Aisi 316L (1.4404)* works with positive pressure (P1 class), it has the following designation in accordance with the standard EN 1856-1:2003 :

Chimney System EN 1856-1 T200 P1 W V2 L50050 O60

Where:

T200: temperature class

P1: pressure level

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

V2: corrosion resistance class

L50050: specification of internal wall material; material: 1.4404 (AISI 316L), minimum thickness: 0,50 mm

O60 : the chimney system is not sootfire resistant and the minimum distance from combustible materials shall be 60 mm

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, 100, 120, 130, 140, 150, 180, 200, 220, 230, 250, 280, 300, 350, 400.

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 single wall chimney system.

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

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

Single wall in stainless steel Aisi 316L (1.4404):

negative pressure working: Chimney System EN 1443 T250 N1 O W 2 R00 C60

positive pressure working: Chimney System EN 1443 T200 P1 O W 2 R00 C60

Where:

T250, T200: temperature class

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

O: non sootfire resistant




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

2: corrosion resistance class for Italian market (*note: C2 class applicable for French market*)

R00: the value of thermal resistance is zero

C60: the installation distance of chimney system from combustible materials shall be 60 mm

Hereunder we show an example of the identification metal plate

	ROCCHEGGIANI canne fumarie inox - componenti ceramici - trattamento aria	Via 1° Maggio, 10 60021 Camerano (AN) – ITALIA Tel.+39.071.7300023 Fax.+39.071.7304005 e-mail: info@roccheggiani.it
“SP” Series – Single Wall		
CHIMNEY SYSTEM - EN 1856-1		 0036
T250 N1 W V2 L50050 O60 T200 P1 W V2 L50050 O60 Certificate N° 0036 CPD 9811 007		
Space for the installer		
Designation according to EN 1443: _____		
Nominal diameter : _____ mm		
Distance to combustible material: _____ mm		→ 
Installer (name, address): _____		

Installation date: _____		
ATTENTION: The 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 single 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.