focus®
cheminées contemporaines

PICTOFOCUS INSTALLER

BALANCED FLUE FITTING SOLUTIONS

Flueing standards, terminal locations and fitting recommendations for focus balanced flue appliances



Contents

IMPORTANT

The flue system of this stove should only be installed and serviced by a qualified engineer. (i.e. Corgi registered engineer).

These instructions should be left with the customer for future reference.

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Ventilation

Room Sealed appliances (Balanced Flue) can be installed into a house without the need for additional ventilation. They can also be installed into a room that has a forced mechanical ventilation and/or fume extraction without any special extra requirements.

IMPORTANT

Dimensions of flues should be defined and installed according to the regulation in the country where the appliance is installed.
The CE label has been obtained for a connection exclusively made with Poujoulat and On Top flues.

General notes

There are many possibilities for installing this Concentric Balanced Flue system into a building, both Roof and Wall terminations are possible, and the flue can either be built into an existing chimney or a completely new flue system may be constructed.

The system is based upon a Concentric Flue system which utilises an inner flue of 100mm diameter which passes through an outer flue of 150mm diameter. The flue gasses that are the products of combustion of the fire, pass through the inner flue and are safely vented to the outside environment. The gap between the inner and outer flues is the channel by which the stove is supplied with air for combustion.

These concentric flues terminate outside of the property in a terminal, this terminal will keep the expelled gasses and the fresh air for combustion seperate. It is important that the terminal is not blocked, a suitable guard maybe required if the terminal is located at a “Low” level (usually when the terminal is within 2m of floor level).

The Balanced Flue gas appliance can be installed as either a built in appliance in a new fireplace, or be installed as an insert into an existing open fireplace. If an existing Flue or Chimney is to be utilised, then the installation engineer must be consulted. If the chimney has been previously used it must be professionally cleaned and certified as being sound and fit for use.

The European CE approval on this appliance is restricted to the Flue systems as specified by the supplier, thus the appliance must only be installed with the original flue system, no others may be used.

Timber frame construction

Whilst it is possible to install room-sealed appliances in timber frame properties, great care needs to be taken to ensure that the flue assembly does not interfere with the weather proofing qualities of any outer wall which it may penetrate. Before attempting this work, further details need to be referenced, (e.g. “Gas Installations in Timber Frame Buildings” from the CORGI installer series in the UK).

Carport or building extension

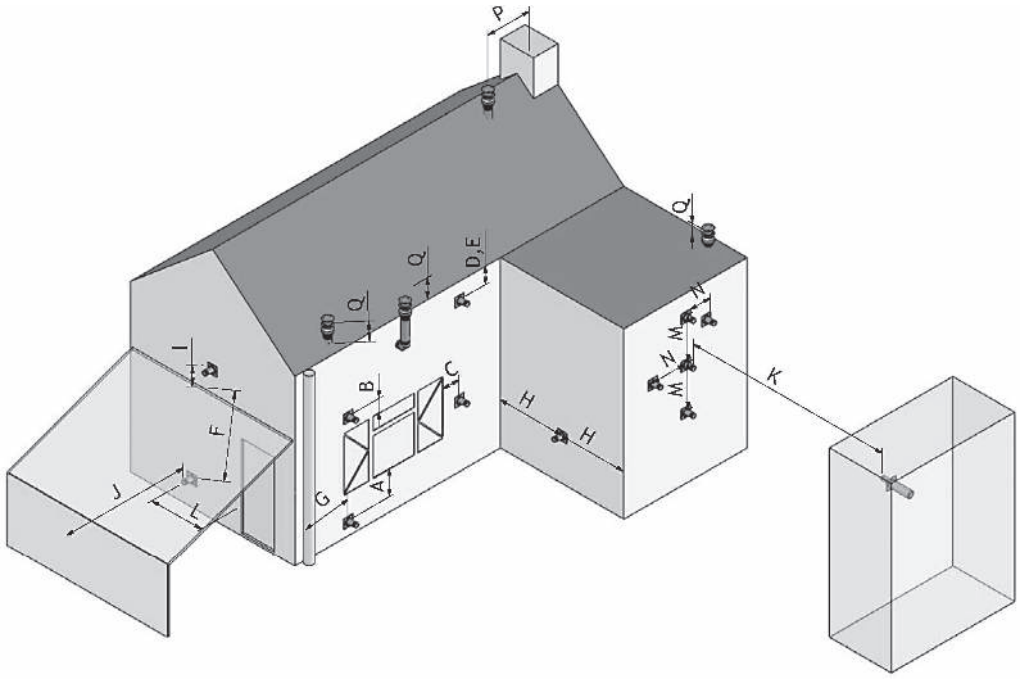
Where a flue terminal is sited within a carport or building extension, it should have at least two completely open and unobstructed sides. The distance between the lowest part of the roof and the top of the terminal should be at least 600mm.

NOTE: A covered passageway should not be treated as a carport.

Basements, lightwells and retaining walls

Flue terminals should not be sited within the confines of a basement area, light well or external space formed by a retaining wall, unless steps are taken to ensure the products of combustion can disperse safely at all times. It may be possible to install this Balanced Flue system in such a location provided that it is not sited lower than 1m from the top level of that area to allow combustion products to disperse safely.

Terminal locations



Dimension	Terminal Locations	Distance (mm)
A*	Directly below an opening, air brick, opening window, etc.	600
B	Above an opening, air brick, opening window, etc.	300
C	Adjacent to an opening, air brick, opening window, etc.	400
D	Below gutters, soil pipes or drain pipes	300
E	Below eaves	300
F	Below balconies of car port roof	600
G	From a vertical drain pipe or soil pipe	300
H	From a internal or external corner	600
I	Above ground roof or balcony level	300
J	From a surface facing the terminal	600
K	From a terminal facing the terminal	600
L	From an opening in the car port (e.g. door, window into the dwelling).	1200
M	Vertically from a terminal on the same wall	1500
N	Horizontally from a terminal on the same wall	300
P	From a vertical structure on the roof	600
Q	Above intersection with roof	150

* I addition, the terminal should not be nearer than 300mm to an opening in the building fabric formed for the purpose of accomodating a built in element such as a window frame.

ROOF TERMINAL LIMITATIONS

To avoid adverse effects	Distance : outlet A, B, ou C
At the same roof level	> 6 m (*)
At a diffeerent roof level	> 3 m (*) (**)
At a lower positioned wall	> 2 m (**)
At a higher sloping surface	> 6 m (***)

"Distance" = Minimum distance required for positioning of the outlet to avoid adverse effects with respect to :

A. A ventilation opening serving an occupied room, a toilet or a bathroom.

B. A heating air supply, when the supply flows through an occupied room.

C. A window that can be opened and that is near an occupied room, a toilet or a bathroom.

(*) If the required distance cannot be achieved, the outlet position rules take precedence.

(**) If the outlet is positioned at least 1 m higher than the intake supply opening, or a window that can be opened.

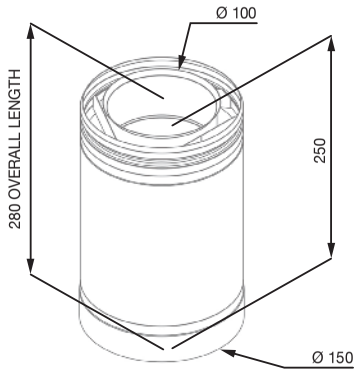
(***) If the required distance cannot be achieved, the position of the outlet must be at least 1 m above the highest facade/roof.

Concentric flue parts identification

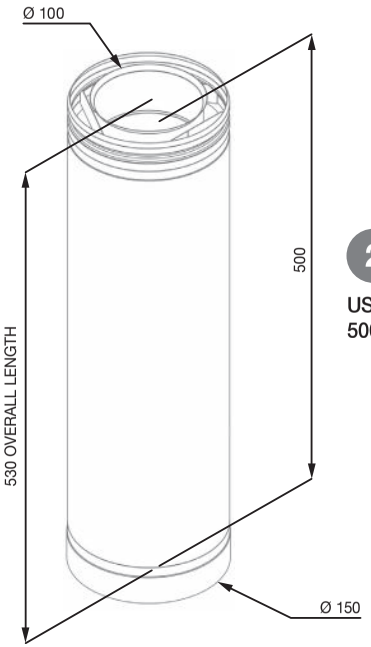
The following pages identify the parts that may be used in the Balanced Flue instalation of this appliance.

The Item number in the table refers to the item number of the part in the Identification pages, this Item number is also the number that will be used to identify parts in the Instalation sugestion diagrams.

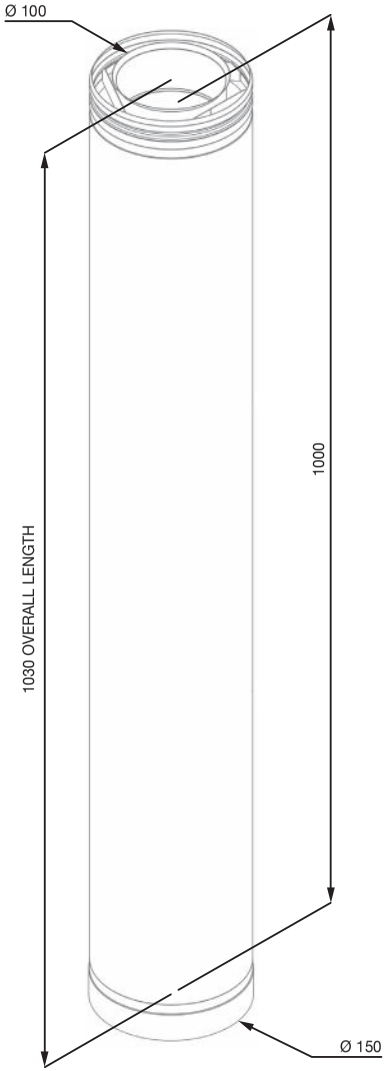
Mark	Description	Article ref.
A	Appliance	
B	Appliance Connection	
C	Flue Adapter	
D	Chimney or Flue, Fully Gas Tight ø 150 minimum	
E	Chimney or Flue, Fully Gas Tight ø 160 minimum	
F	Stainless Stell Flaxible Chimney Liner ø100, AISI 316Ti	
G	Stainless Stell Flaxible Chimney Liner ø150, AISI 316Ti	
1	Concentric Flue Pipe 250 mm Length	US 25 10
2	Concentric Flue Pipe 500 mm Length	US 50 10
3	Concentric Flue Pipe 1 m Length	US 100 10
4	Locking Band	USKB 10
5	Protection Band	USAB 10
6	Concentric Flue Pipe Adjustable Length 50 – 300 mm	USPP 10
7	Vertical Terminal	USDVC2 10
8	Horizontal Terminal (excentric exit)	USDHCE 10
9	Mounting Band	USEB 10
10	Wall band Adjustable	USMB 10
11	Concentric Flue 90°	USB 90 10
12	Concentric Flue 45°	USB 45 10
13	Concentric Flue 15°	USB 15 10
14	Storm Collar	USSR 10
15	Flat Roof Flashing (aluminium)	USDPAL 10
16	Flat Roof Flashing	USDPRV 10
17	Renovation kit	USSAN 10
18	Slope Roof Flashing 5° - 30°	USDH 10
19	Slope Roof Flashing 20° - 45°	USLS 10
20	Adjustable Roof Plate (Supplied as pair)	USLP 10
21	Wall Cover	USMP 10



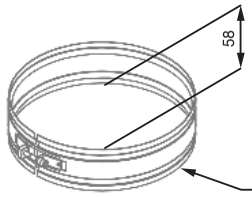
1
US 25 10
250 mm LENGTH



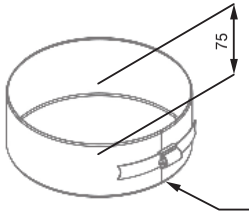
2
US 50 10
500 mm LENGTH



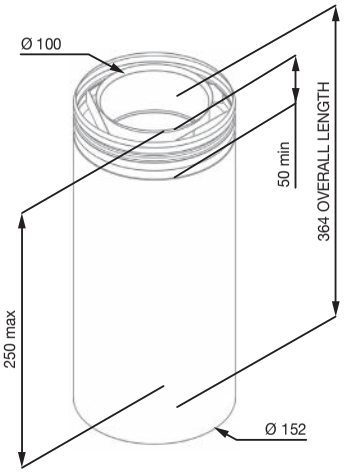
3
US 100 10
1000 mm LENGTH



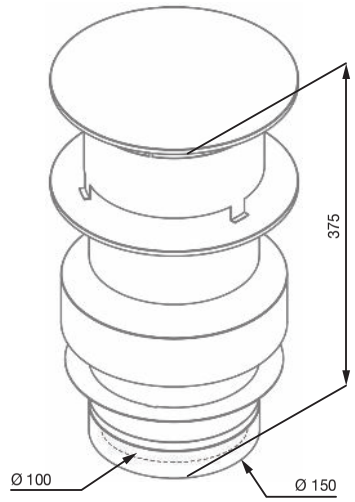
4
USKB 10
LOCKING BAND



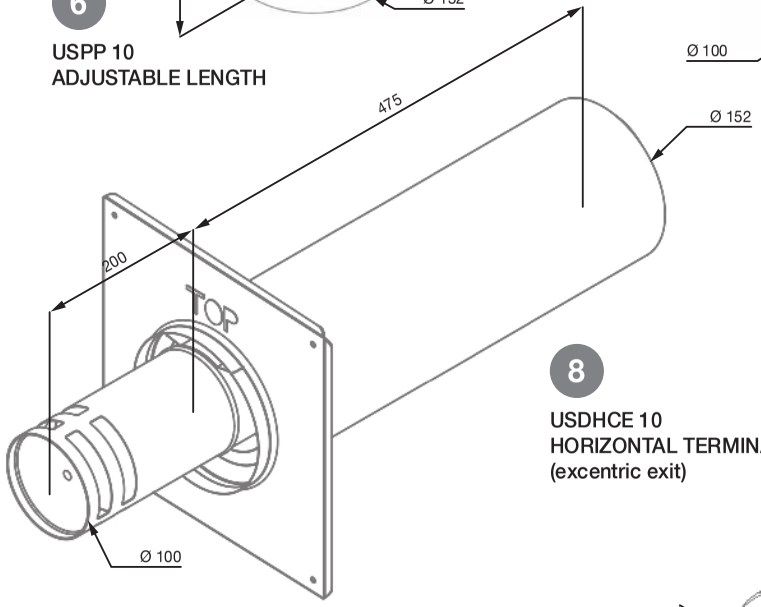
5
USAB 10
PROTECTION BAND



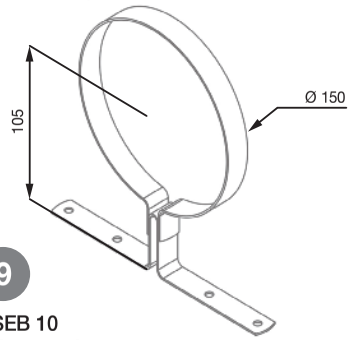
6
USPP 10
ADJUSTABLE LENGTH



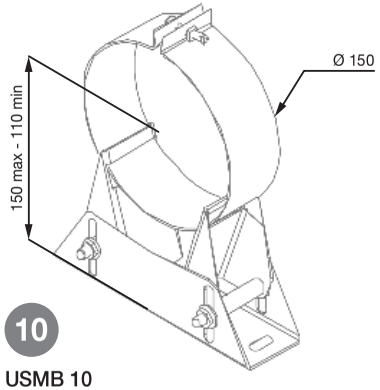
7
USDVC2 10
VERTICAL TERMINAL
(+ USKB)



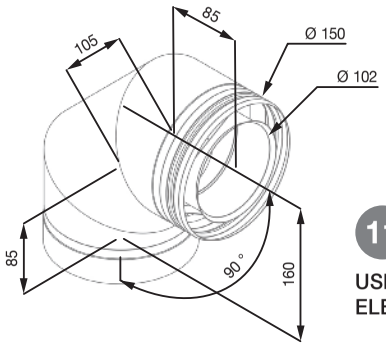
8
USDHCE 10
HORIZONTAL TERMINAL
(excentric exit)



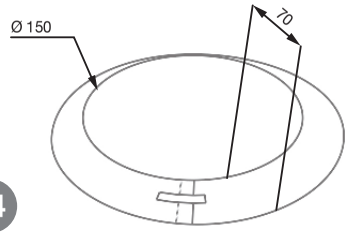
9
USEB 10
MOUNTING BAND



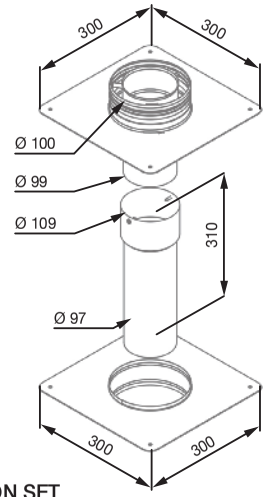
10
USMB 10
WALL BAND ADJUSTABLE



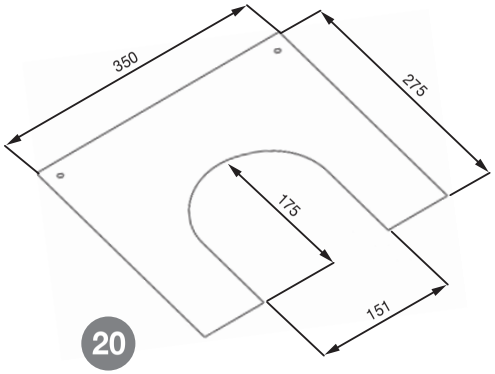
11
USB 90 10
ELBOW 90 °



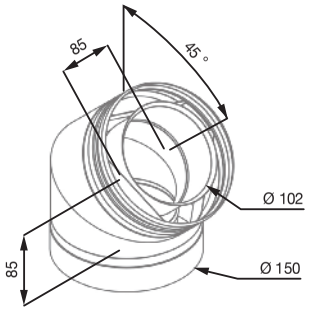
14
USSR 10
STORM COLLAR



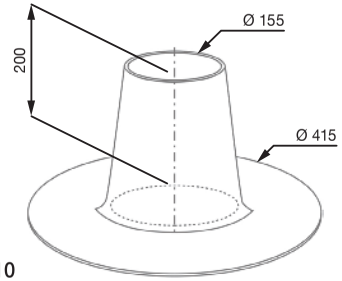
17
USSAN 10
RENOVATION SET



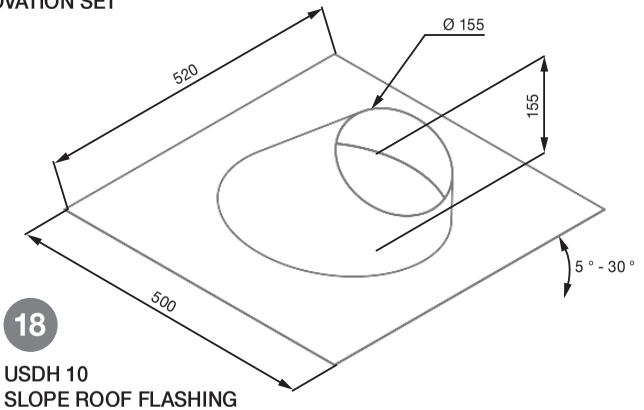
20
USCP 10
ADJUSTABLE ROOF PLATE
(supplied as a fair)



12
USB 45 10
ELBOW 45 °

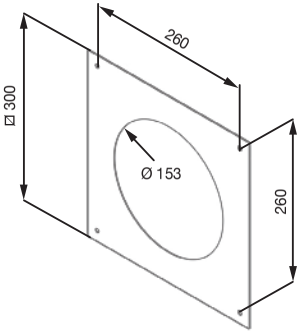


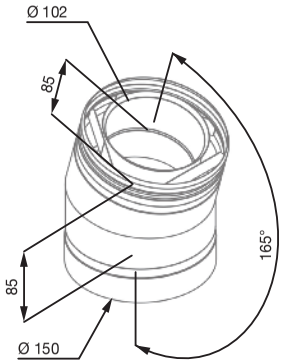
15
USDPAL 10
FLAT ROOF
FLASHING ALUMNIUM



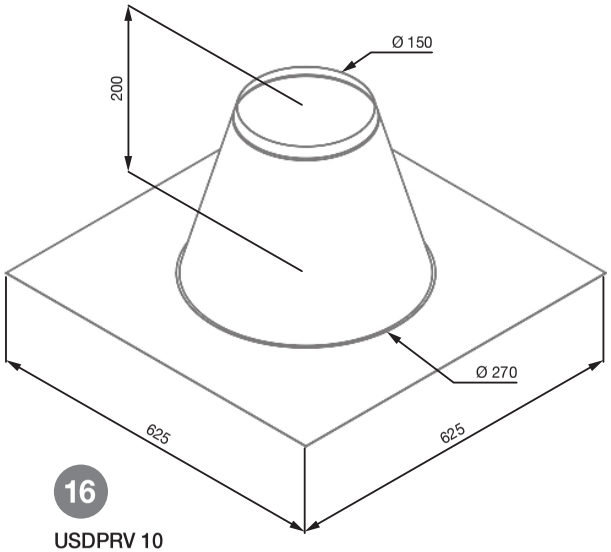
18
USDH 10
SLOPE ROOF FLASHING
5 ° - 30 °

21
USMP 10
WALL COVER

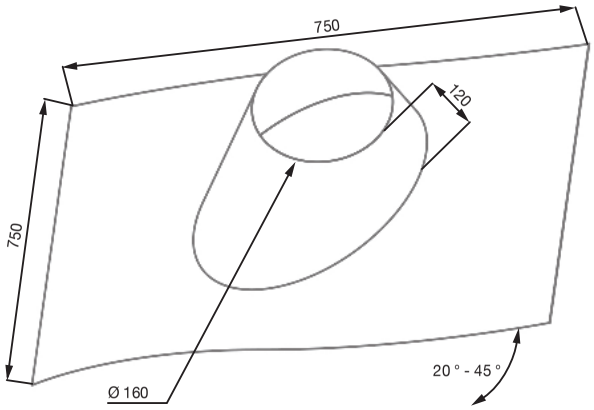




13
USB 15 10
ELBOW 15 °

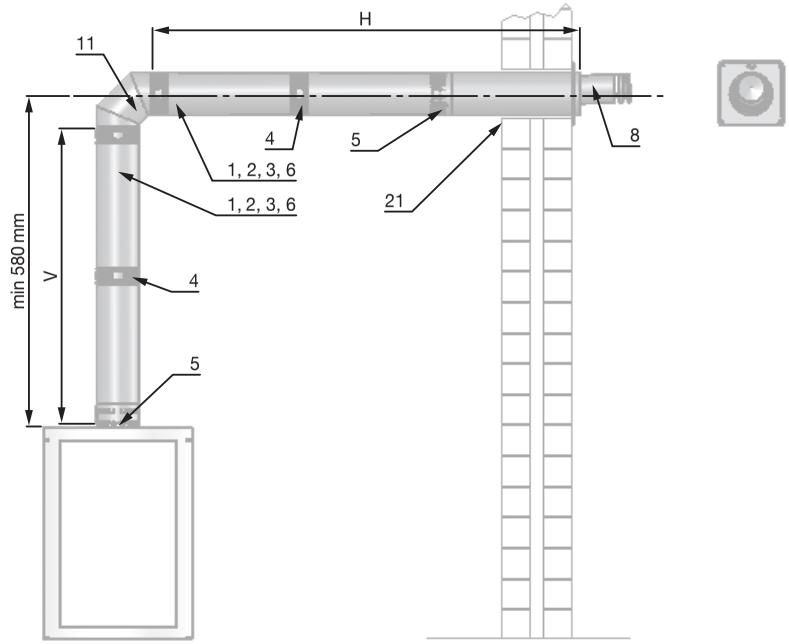


16
USDPRV 10
FLAT FOOR FLASHING

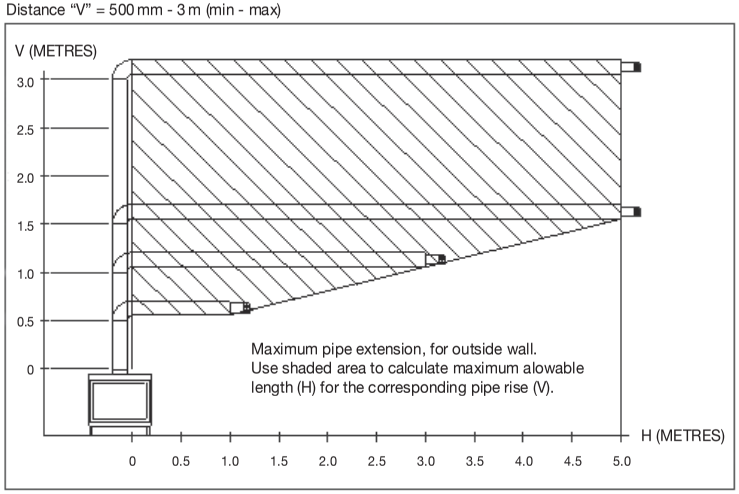


19
USLS 10
SLOPE ROOF FLASHING
20 ° - 45 °

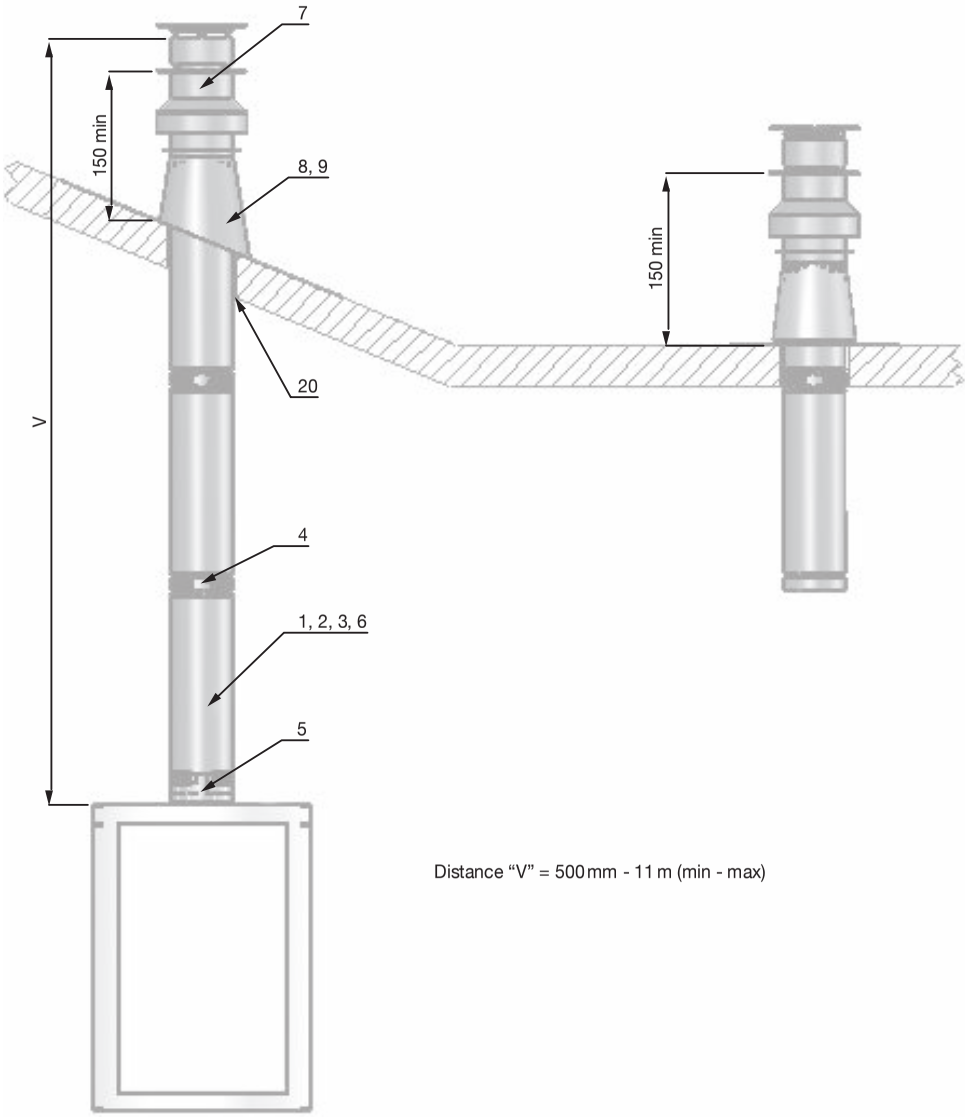
Horizontal wall termination for rigid concentric flue



Distance “H” = 0 - 5 m (min - max)
Distance “V” = 500 mm - 3 m (min - max)

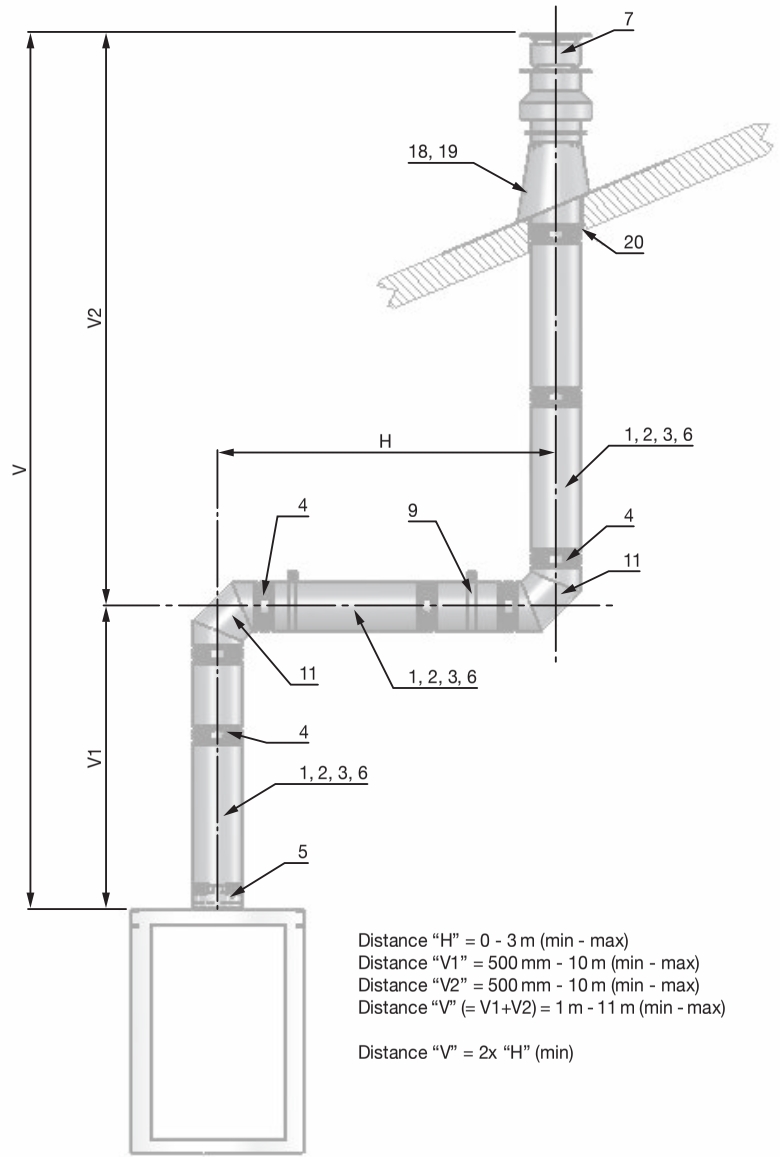


Vertical roof mounted termination (no bends) for rigid concentric flue



Distance “V” = 500 mm - 11 m (min - max)

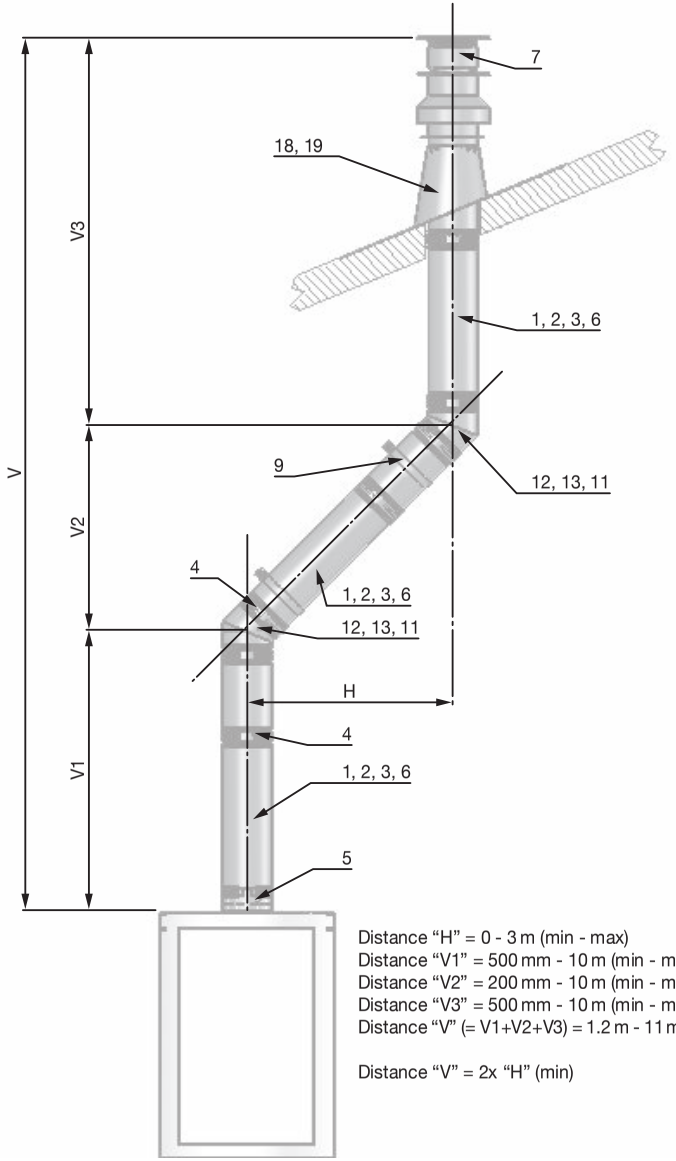
Vertical roof mounted termination with elbow for rigid concentric flue



Distance “H” = 0 - 3 m (min - max)
Distance “V1” = 500 mm - 10 m (min - max)
Distance “V2” = 500 mm - 10 m (min - max)
Distance “V” (= V1+V2) = 1 m - 11 m (min - max)

Distance “V” = 2x “H” (min)

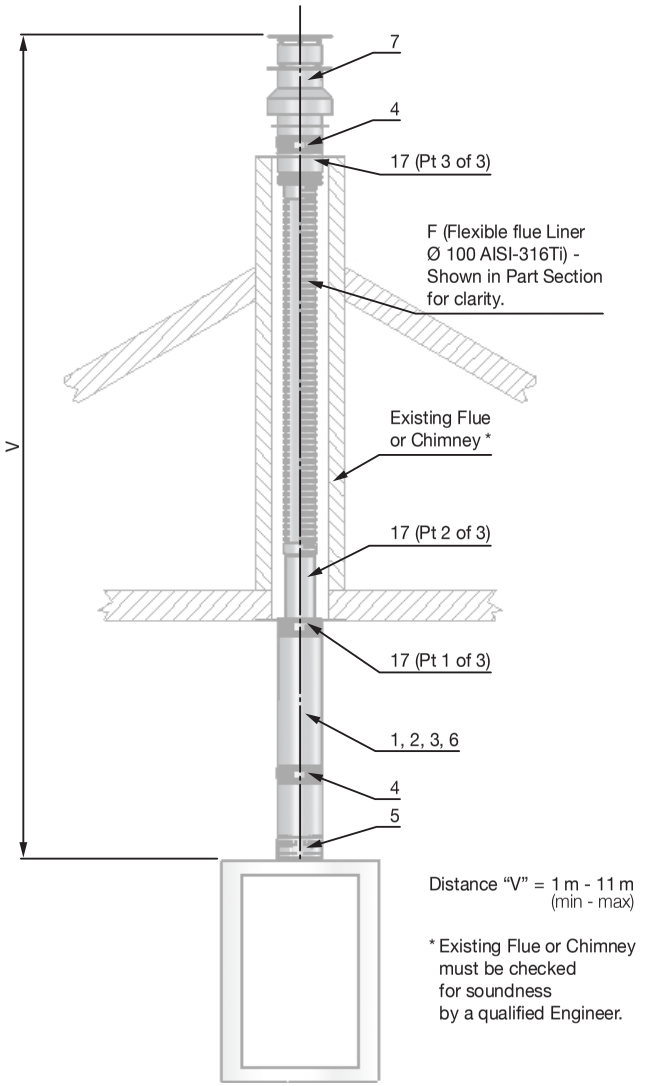
Vertical roof mounted termination with angled elbow for rigid concentric flue



Distance “H” = 0 - 3 m (min - max)
Distance “V1” = 500 mm - 10 m (min - max)
Distance “V2” = 200 mm - 10 m (min - max)
Distance “V3” = 500 mm - 10 m (min - max)
Distance “V” (= V1+V2+V3) = 1.2 m - 11 m (min - max)

Distance “V” = 2x “H” (min)

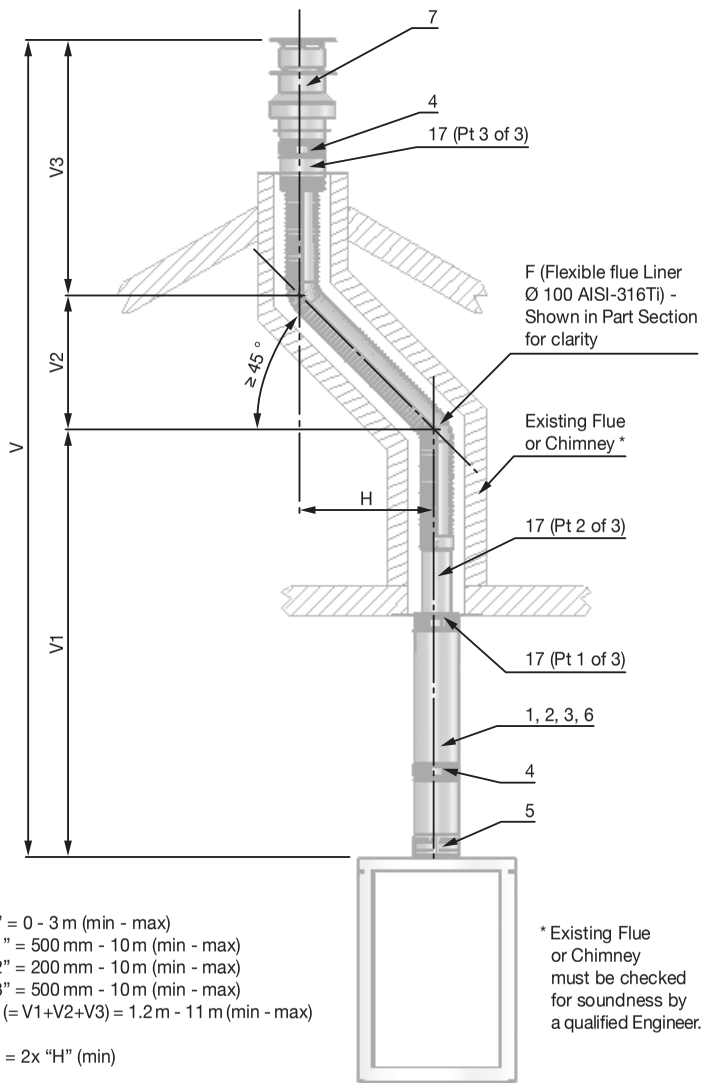
Balanced flue system utilising existing flue (or chimney) with flexible concentric flue



Distance “V” = 1 m - 11 m (min - max)

* Existing Flue or Chimney must be checked for soundness by a qualified Engineer.

Balanced flue system utilising existing flue (or chimney) with flexible concentric flue with bend



Distance “H” = 0 - 3 m (min - max)
Distance “V1” = 500 mm - 10 m (min - max)
Distance “V2” = 200 mm - 10 m (min - max)
Distance “V3” = 500 mm - 10 m (min - max)
Distance “V” (= V1+V2+V3) = 1.2 m - 11 m (min - max)

Distance “V” = 2x “H” (min)

* Existing Flue or Chimney must be checked for soundness by a qualified Engineer.

Note

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cheminées contemporaines

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