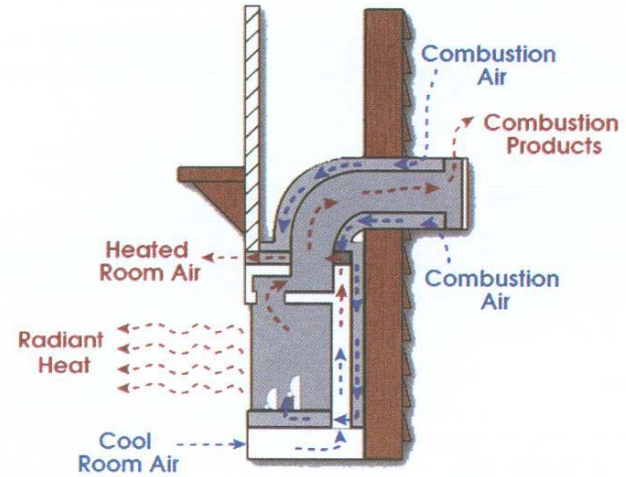
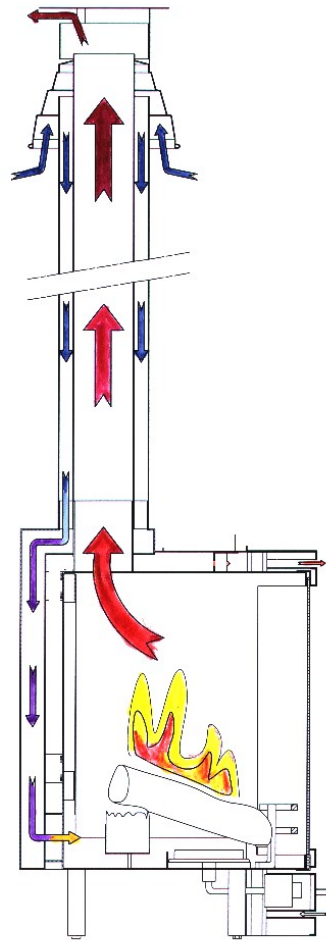


Two different flue systems

1. Balance flue
 - Room sealed appliance
 - Like Faber Multi vent
2. Conventional flue
 - Fire place connected to a chimney

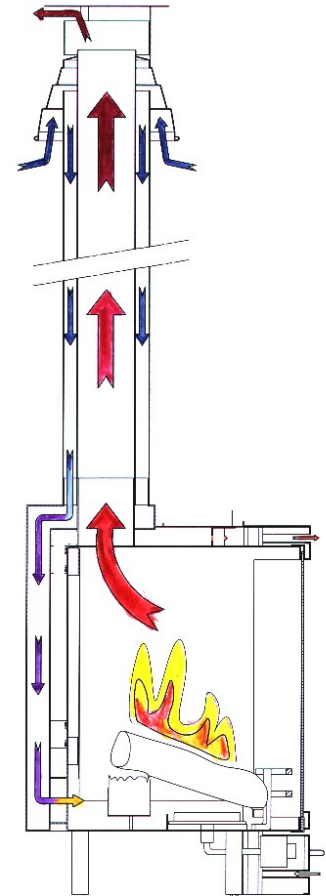


Balance flue



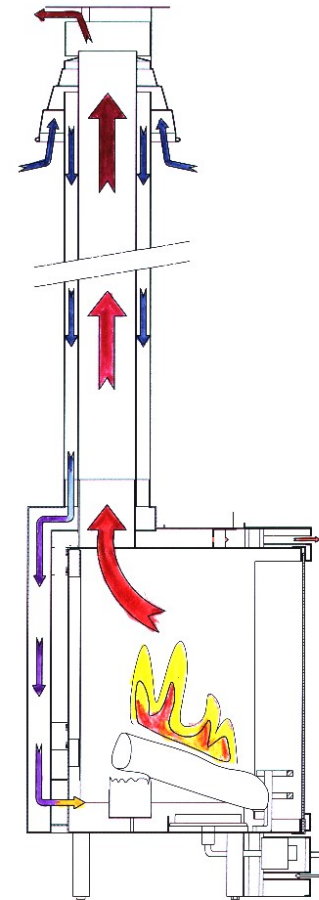
How it works

- Provides all of the combustion air to the appliance from outside the house through one pipe and which discharges combustion by-products to the outside through another pipe.
- Balance flue means that:
 - In and outlet are balanced, same pressure on in- and outlet
- Critical for this system:
 - In- outlet has to be fit to each other as close as possible
 - If further away the pressure different gets bigger and the system doesn't work



How it works

- The system works only properly when used in combination with the flue outlet tested with the appliance
 - The outlet also creates a pressure different over in- and outlet depending on the wind (direction and velocity).
 - The appliances are approved with the pressure different that can occur over the outlet



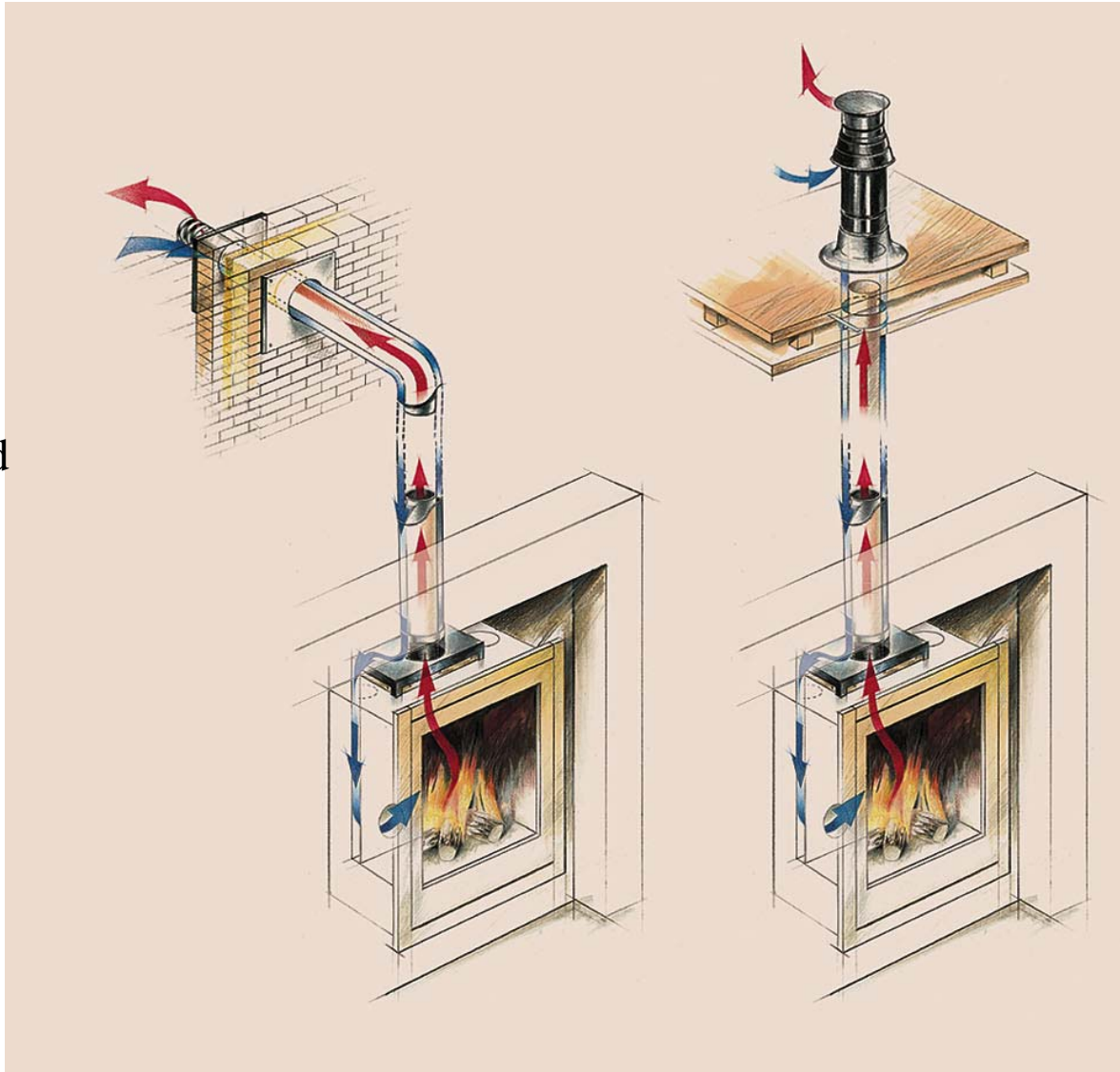
ADVANTAGES OF THE FABER BALANCE FLUE MULTI-VENT SYSTEM

- Terminal positions, in wall, (pitched) roof or through chimney
- An extension of 6 meters horizontal flue system is possible. Maximum 12 meters height.
- The supply of combustion air and evacuation of products of combustion is not achieved by using a fan.



Installation examples Faber MV system

Up and Out
balanced flue
Wall mounted
terminal



Vertical balanced
flue
Roof mounted
terminal

Endless combinations and possibilities

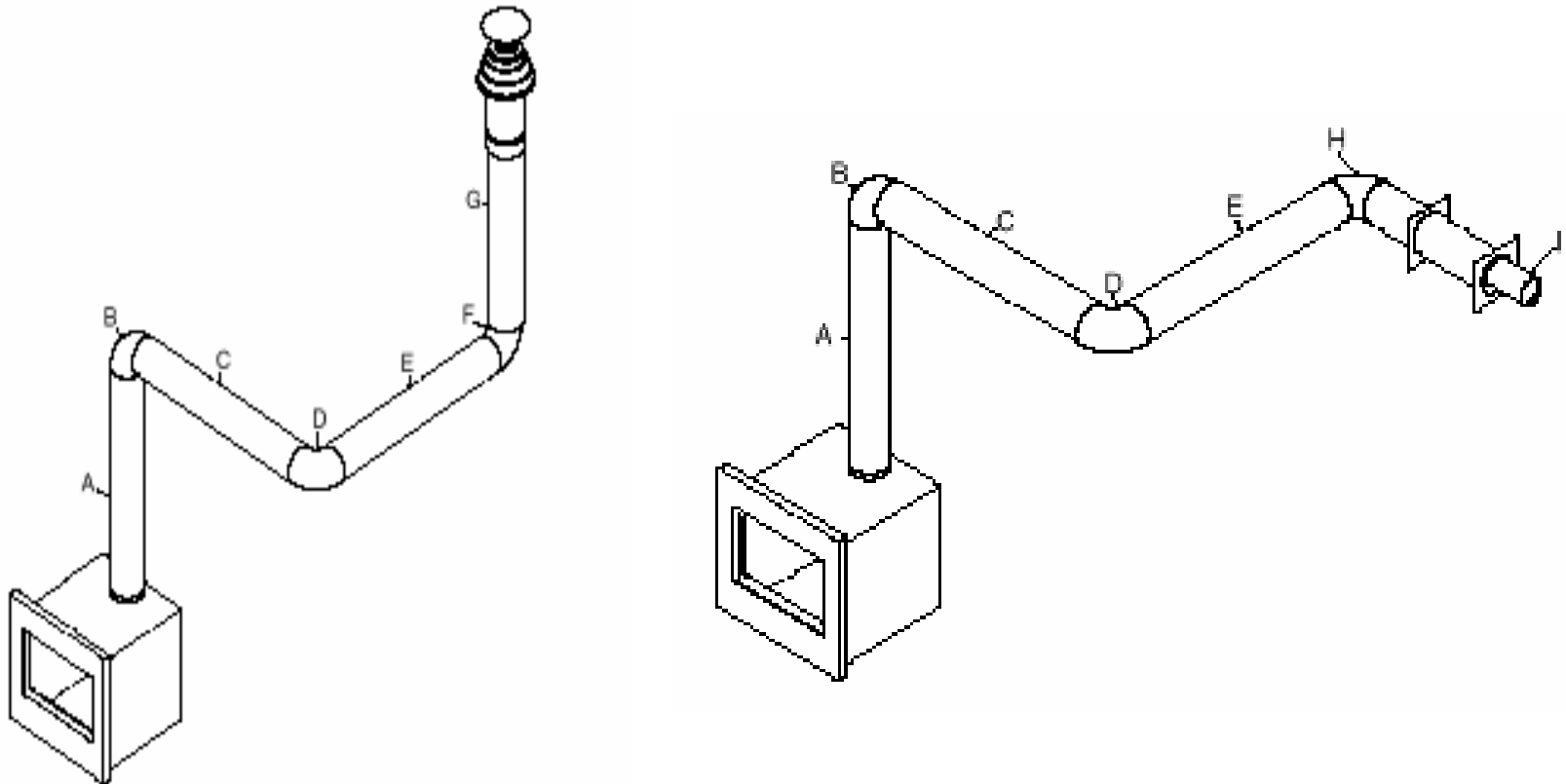


fig. 2

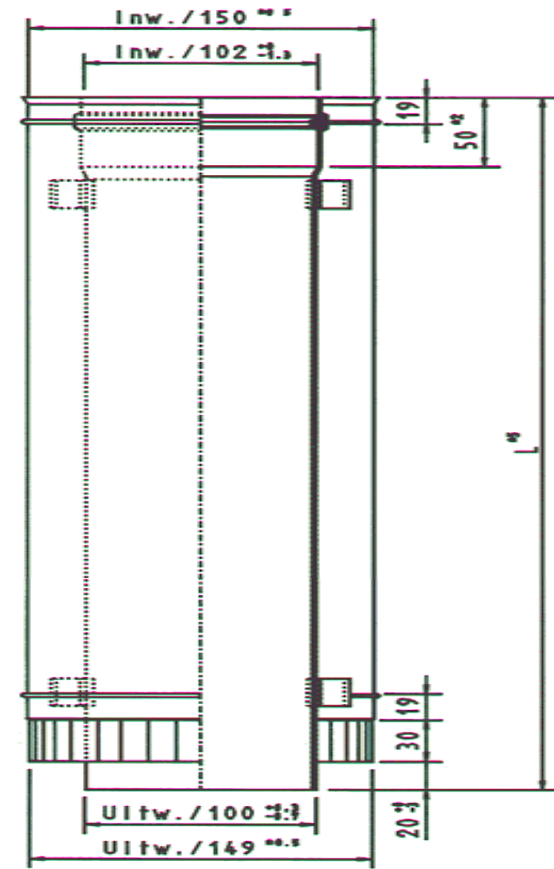
Flue parts



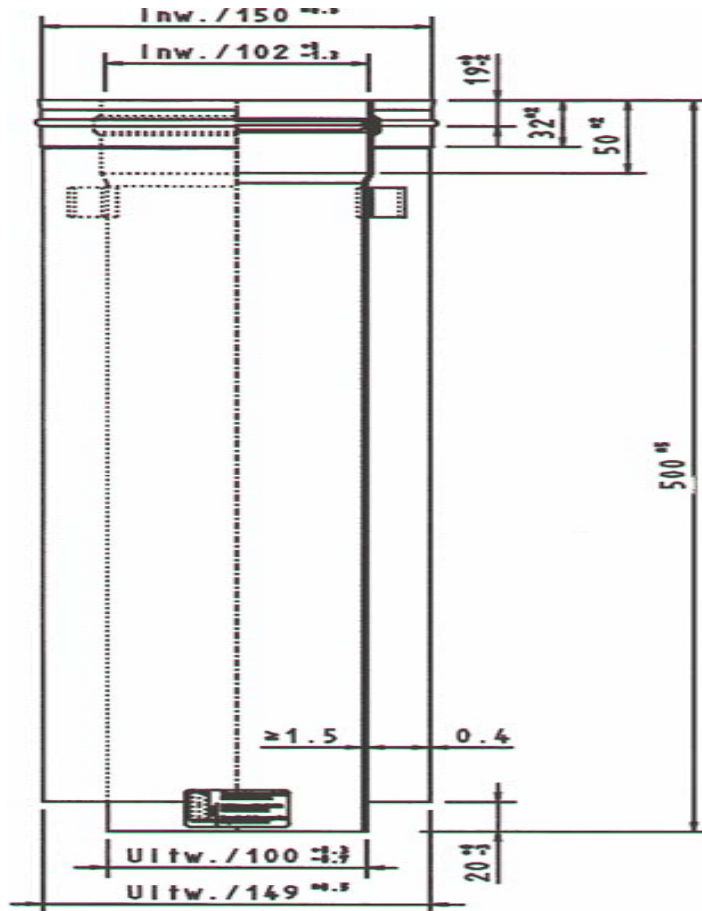
Flue parts new 2006

- All parts carrying the CE mark
- The parts don't have an inside silicon seal anymore.
- The parts are CE approved till 500 degrees.
- The new parts can be used in combination with the old parts

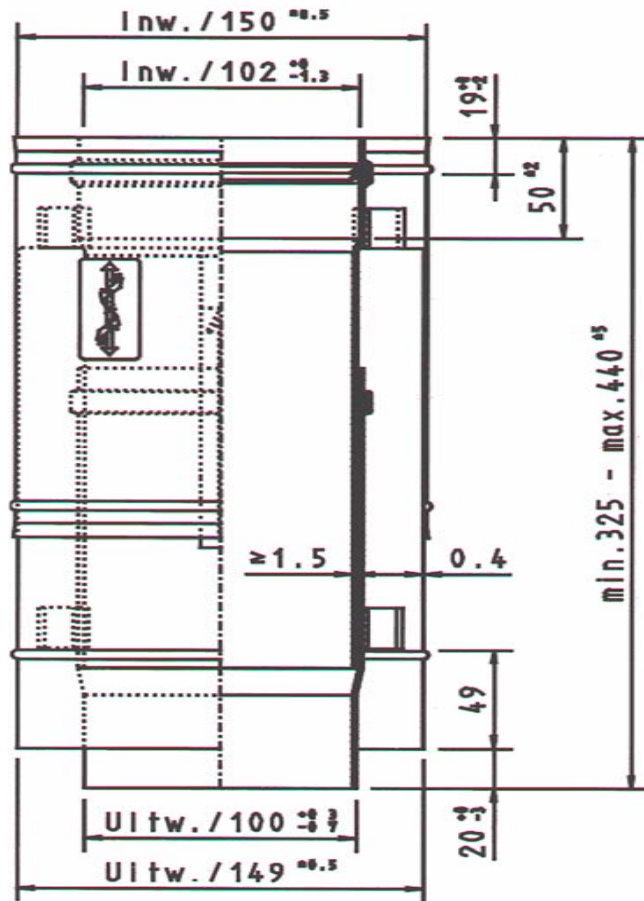
Flue pipes available in lengths of 0,5 and 1 meter



Shortable Flue pipe



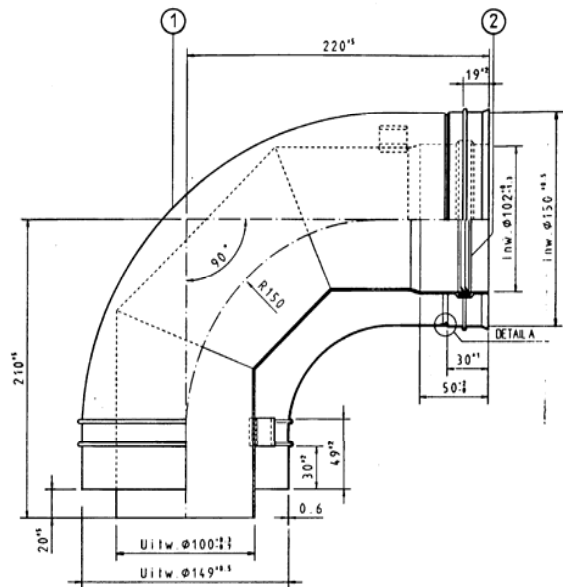
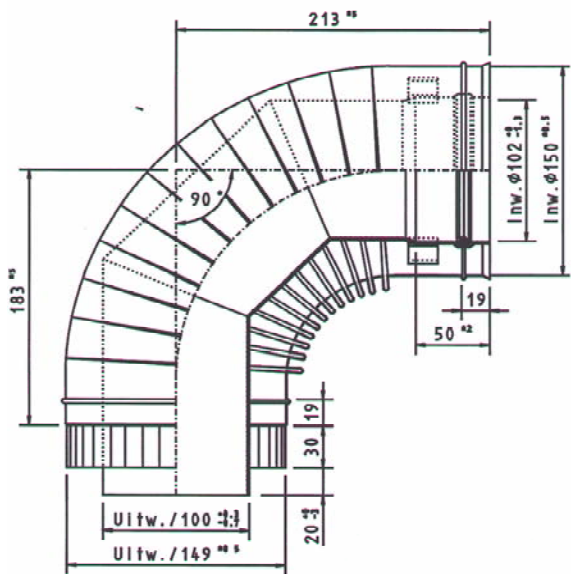
Extendable flue pipe 0,33-0,44M



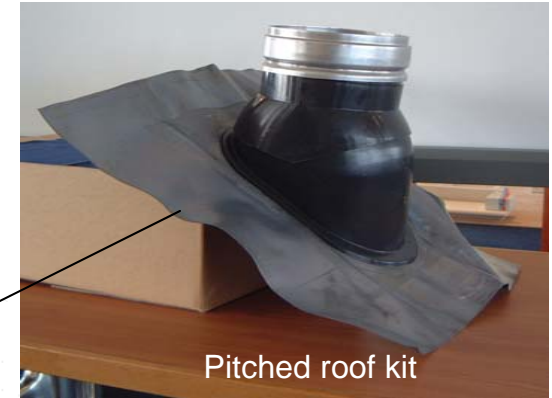
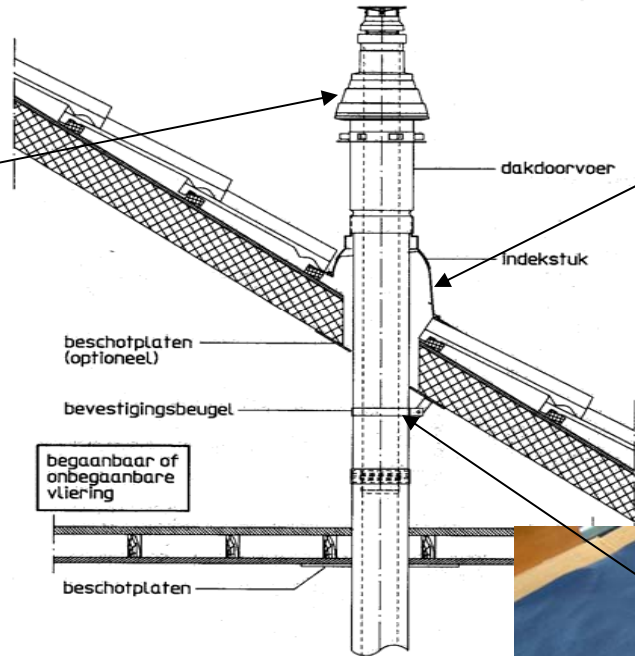
Extendable flue



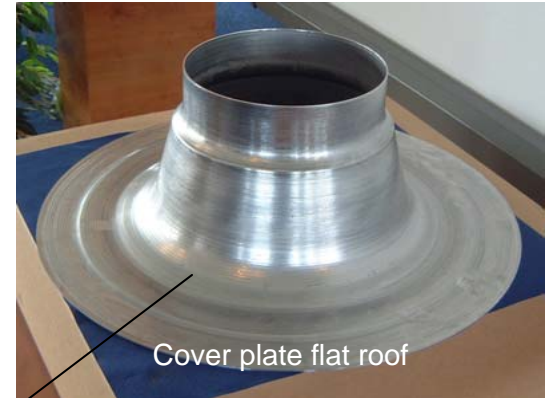
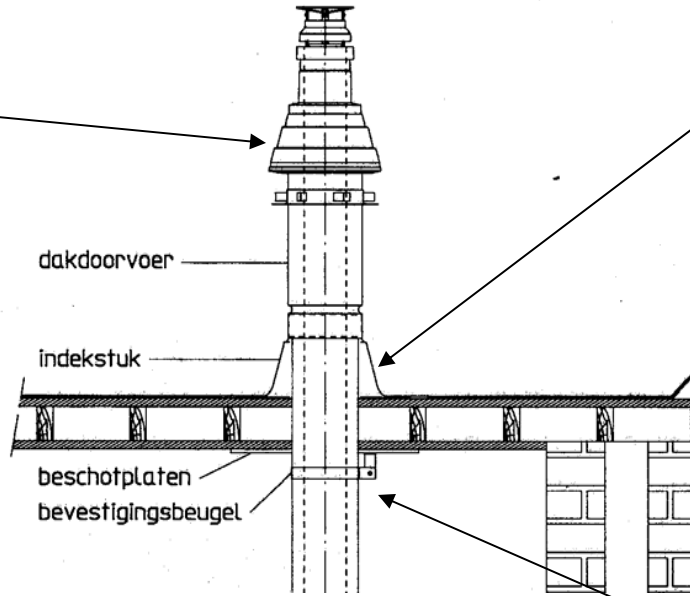
Elbows



Short able "Roof terminal" for flat and pitched roof



 **faber**



Wall terminal

- The wall terminal is short able
- Fixed at the right position, the biggest opening down



Some important requirements for a good functioning

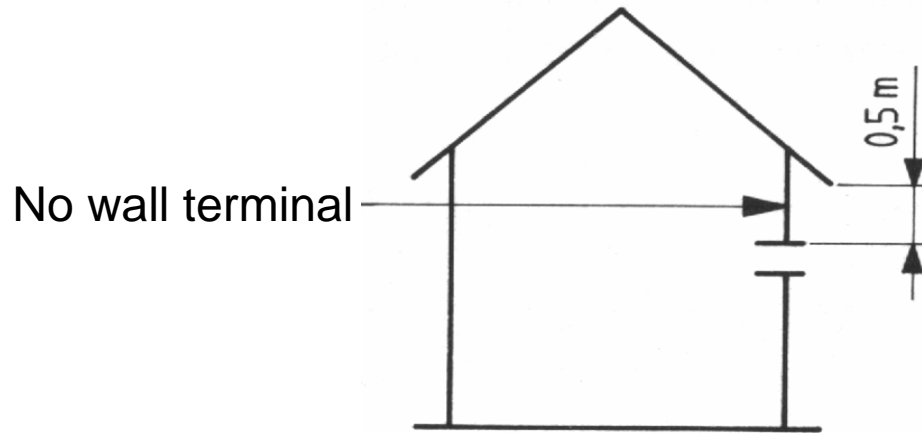
- The wall mounted terminal has to be at a distance of at least 0,5 meters from:
 - corners of the building
 - overhanging roof parts
 - balcony's etc unless the duct is dragged until the front side of the overhanging part.



Special Elbow for direct out



The influence of overhanging parts



Location of roof mounted terminals

- The roof mounted terminal has to be at a distance of at least 0,5m of the sides of the roof, excluded the ridge.
- The minimum distance between the two terminals should be at least 450 mm.



How to calculate the Flue

- Most of the appliances need to go vertical first
 - Starter height advise 1m
 - Min depending on the appliance
 - 1m for the glance and Relaxed
 - 0,5m for most other appliances
 - Direct with bend for Straight only
 - Best flame picture with 1m vertical starter



Horizontal

- The max horizontal flue run is depending on:
 - The total height of the chimney
 - The type of appliance
 - Absolute maximum 6 meters
- For most appliances if you go 2 meters vertical you can go at the maximum of 6 meters horizontal
 - Always verify with the installation manual



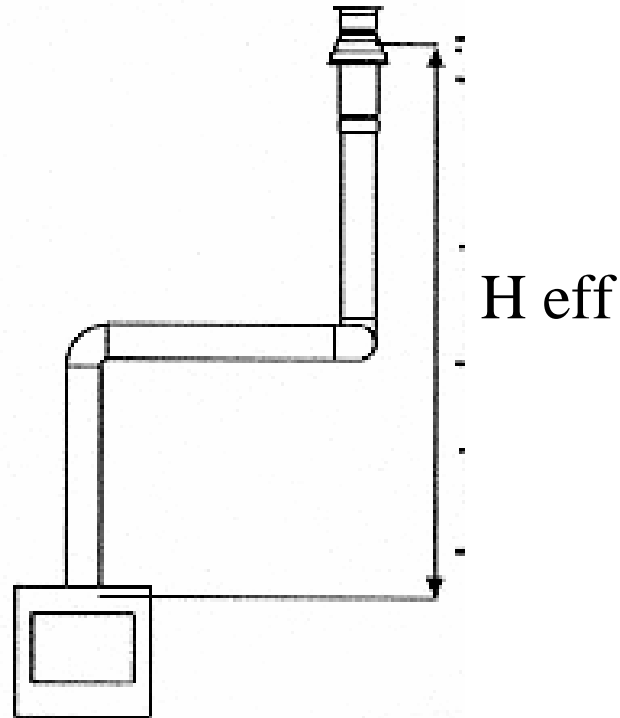
Calculation of the flue

- Calculate if the installation you want is possible.
- Follow the rules that are given in the instruction manual.

Calculation

- Determine on base of the table, depending on the type and terminal position, if the desired situation is possible.
- For determination you will need to calculate:
 - The effective height
 - The total horizontal rooting

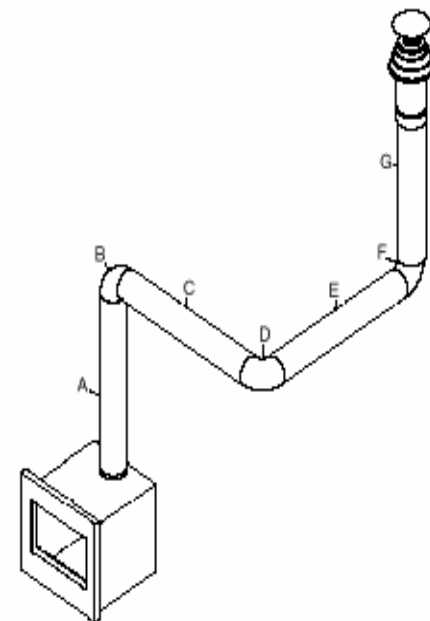
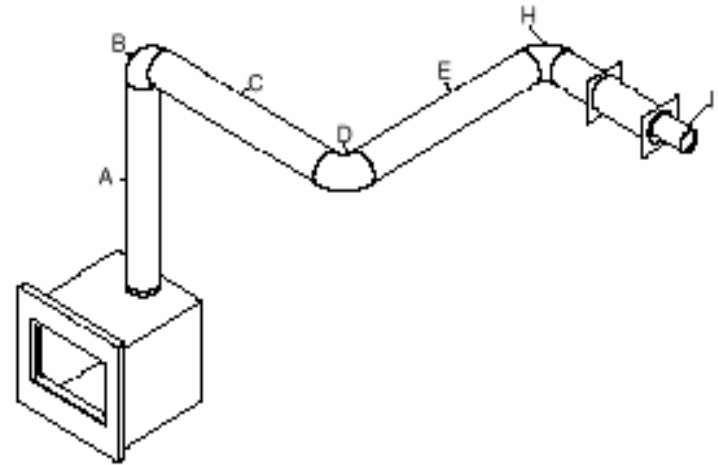
The effective height



The effective height (this is the real difference in height between the upper side of the appliance and the terminal)

The total horizontal rooting

- This is the total horizontal flue length and where:
 - each 90 degree elbow which is in the horizontal area counts for 2 meters.(Part D&H)
 - each 45 degree bend which is in the horizontal area counts for 1 meter.
 - bends at the transition of horizontal to vertically are not to be counted.(Part B&F)
 - the wall mounted terminal counts for 1 meter (Part J)



Example Calculation

Calculation horizontal length

Flue length $C + E = 2 \text{ m}$

Elbow D 2 m

Total 4 m

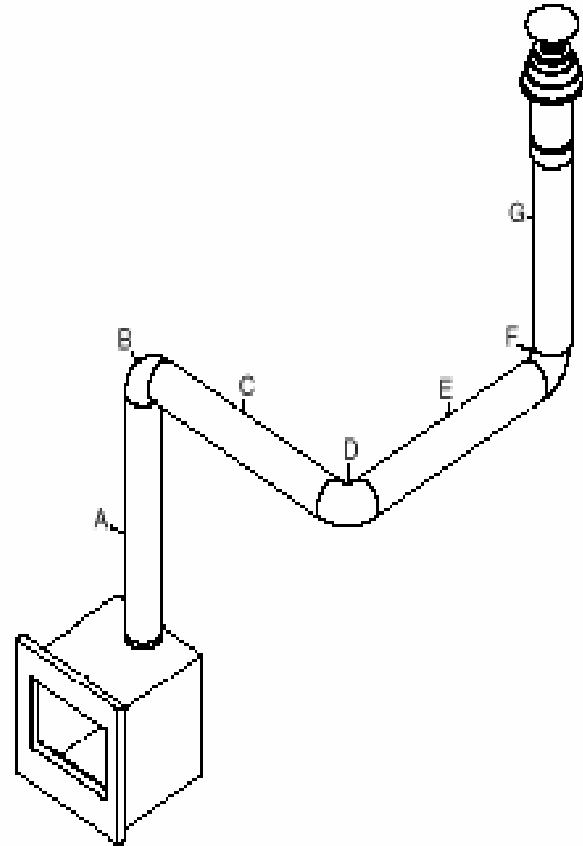


fig. 2

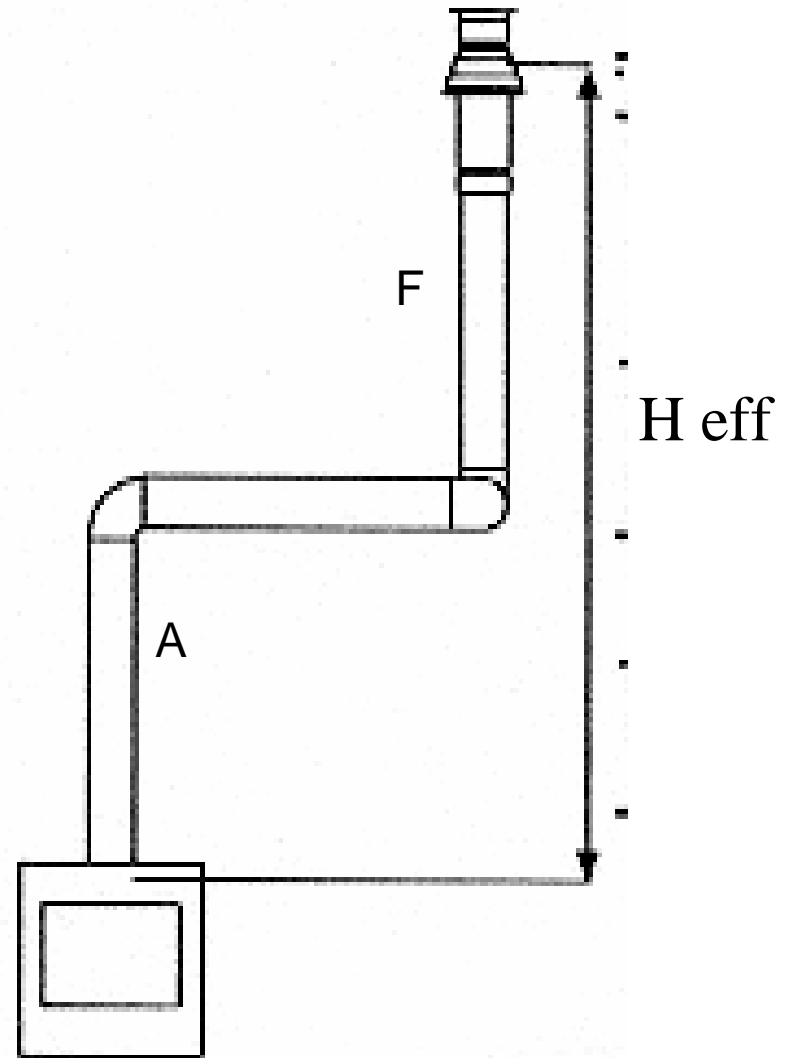
Measure or calculate H_{eff}

Flue length A 1m

Roof mounted

Terminal F 1m

Total effective height 2m



Results

The effective height	2m
The total horizontal rooting	4m

Determine on base of the table, depending on the type and terminal position, if the desired situation is possible.

Silence, feeling log burner

The effective height

2m

The total horizontal rooting

4m

Silence, Feeling en Sense logburner

horizontal length

		0	1	2	3	4	5	6
Heff	0	x	x	x	x	x	x	x
	1	0	0	x	x	x	x	x
	1,5	0	0	0	0	x	x	x
	2	30	30	0	0	0	0	0
	3	45	45	30	30	0	0	0
	4	45	45	30	30	30	0	0
	5	50	50	45	30	30	30	0
	6	50	50	45	30	30	30	0
	7	60	60	50	45	45	30	x
	8	60	60	60	50	50	x	x
	9	65	65	60	60	x	x	x
	10	65	65	65	x	x	x	x
	11	65	65	x	x	x	x	x
12	65	x	x	x	x	x	x	

x combinatie not allowed

0 cobination allowed remove the restrictor

cobination allowed place a restrictor (size in mm)

Silence feeling flat fiber burner

The effective height 2m

The total horizontal rooting 4m

Silence, Feeling en Sense flat fiber burner

		horizontal length						
		0	1	2	3	4	5	6
Heff	0	x	x	x	x	x	x	x
	1	0	0	x	x	x	x	x
	1,5	0	0	0	x	x	x	x
	2	30	30	0	0	x	x	x
	3	45	45	30	0	0	0	x
	4	45	45	30	30	30	0	0
	5	50	50	45	30	30	30	0
	6	50	50	45	30	30	30	0
	7	60	60	50	45	45	30	x
	8	60	60	60	50	50	x	x
	9	65	65	60	60	x	x	x
	10	65	65	65	x	x	x	x
	11	65	65	x	x	x	x	x
12	65	x	x	x	x	x	x	

- x combinatie not allowed
- 0 combination allowed remove the restrictor
- ## combination allowed place a restrictor (size in mm)



2th Example Calculation

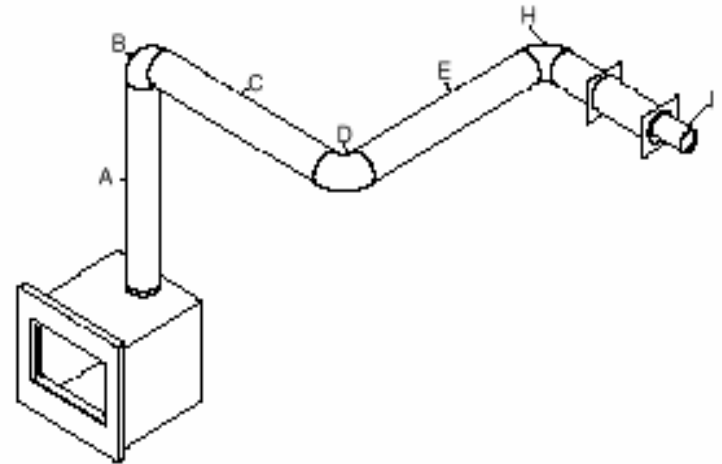
Calculation horizontal length

Flue length $C + E = 2 \text{ m}$

Elbow $D + H = 4 \text{ m}$

Wall terminal J 1 m

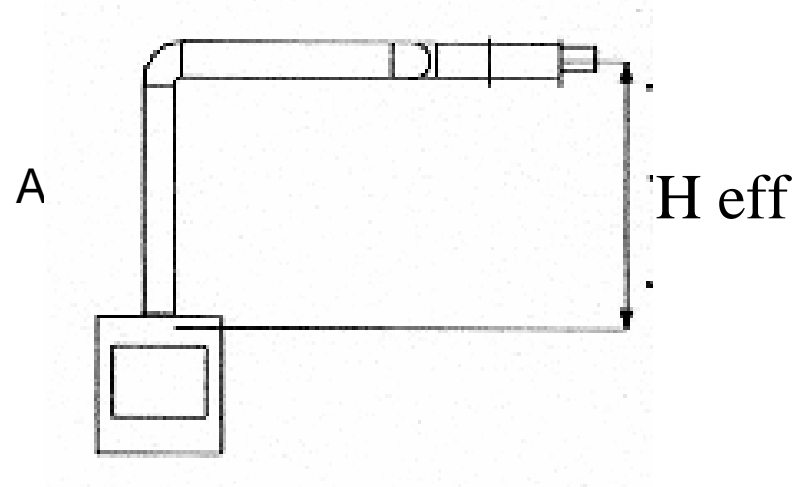
Total 7 m



Measure or calculate H_{eff}

Flue length A 1m

Total effective height 1m



The effective height 1m

The total horizontal rooting 7m

Silence, Feeling en Sense logburner

horizontal length

	0	1	2	3	4	5	6
0	x	x	x	x	x	x	x
1	0	0	x	x	x	x	x
1,5	0	0	0	0	x	x	x
2	30	30	0	0	0	0	0
3	45	45	30	30	0	0	0
4	45	45	30	30	30	0	0
5	50	50	45	30	30	30	0
6	50	50	45	30	30	30	0
7	60	60	50	45	45	30	x
8	60	60	60	50	50	x	x
9	65	65	60	60	x	x	x
10	65	65	65	x	x	x	x
11	65	65	x	x	x	x	x
12	65	x	x	x	x	x	x

Heff

- x combinatie not allowed
- 0 cobination allowed remove the restrictor
- ## cobination allowed place a restrictor (size in mm)



Restrictor

- If applicable, in the table is also stated an restrictor
 - This restrictor needs to be assembled in the combustion room.
 - Normally the smallest restrictor is assembled

Restrictor

