Cert. n° 0545/5

InoxSabiana 25 Flues

Stainless Steel Double Wall

SABIANA
IL CLIMA AMICO

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Double Wall, Stainless Steel Flues
InoxSabiana 25

The InoxSabiana 25 is the result of innovative development based on over 20 years experience in insulated flues, and aims to produce a high quality, versatile and easy-to-install product.

The choice of the raw materials, cutting-edge constructional technology and the detail paid to every single accessory place the product at the top end of the market, in line with the high quality standards of all Sabiana products.

The InoxSabiana 25 series includes 8 different diameters (from 100 to 350 mm) and a complete series of accessories to satisfy all installation requirements.

The InoxSabiana 25 flues adapt perfectly to the new high-efficiency boilers, with very low flue outlet temperatures and high CO_2 content, thanks to the following fundamental characteristics:

- low thermal inertia, rapid stabilisation of the flue gas temperature;
- when used with the sealing gasket, is perfectly water proof;
- high thermal resistance of the walls, so as to increase the draught of the flue and maintain the flue gas temperature at high levels;
- high corrosion resistance, due to the quality of the steel used, and the type of welding;
- low internal static, so as to minimise the inside pressure drop.

The InoxSabiana 25 series is supplied with a silicone sealing gasket that can withstand operating temperatures of up to 200°C. This is fitted in a special slot made in the inner wall of the flue.

Main constructional characteristics

The series can also be used with modern condensing boilers, in which the flue outlet temperature is very low, the level of condensation is high and the pressure (in the flue) is positive.
The InoxSabiana 25 series is not suitable to be connected to Diesel power generators.

- AISI 316 L stainless steel inner wall
  (austenitic stainless steel 18/10 Mo with low carbon content, grade UNI X 2, CrNiMo 1712).
  Thickness: 0.5 mm.
  Properties: high resistance to intergranular corrosion and particularly aggressive products.

- AISI 304 stainless steel outer wall
  (austenitic stainless steel 18/10, grade UNI X 5, CrNi 1810).
  Thickness: 0.5 mm.
  Properties: good resistance to corrosion in air and water. Upon request, the InoxSabiana 25R version is available, with annealed DHP copper 99.9 outer wall, nominal thickness 0.6 mm.

- Rock wool insulation with basaltic composition, minimum density 90 kg/m^3, thickness 25 mm.
  Properties: the rock wool used is chemically neutral, is not hydrophilic nor hygroscopic, nor has a capillary action. It is free of asbestos and crystalline silica, has low conductivity values. The rock fibres making up the insulation can withstand temperatures exceeding 1000°C.
  The insulation is classified as incombustible by the French standard MO-CSTB 92.34624-3.

- Longitudinal microplasma welding on both the inner and outer wall, in each element.

- All the non-insulated elements in the Sabiana InoxSabiana 25 series are made from AISI 304 stainless steel, with BA finish, and suitably thick (storm collar and adjustable flashing are made in aluminium). The screws supplied are in stainless steel.

- All the non-insulated elements in the Sabiana InoxSabiana 25R series are made from annealed DHP copper 99.9, and suitably thick. The screws supplied are in copper-plated stainless steel.

- Minimum thermal bridge between the inner and outer pipe, due to the adoption of an innovative fastening system.

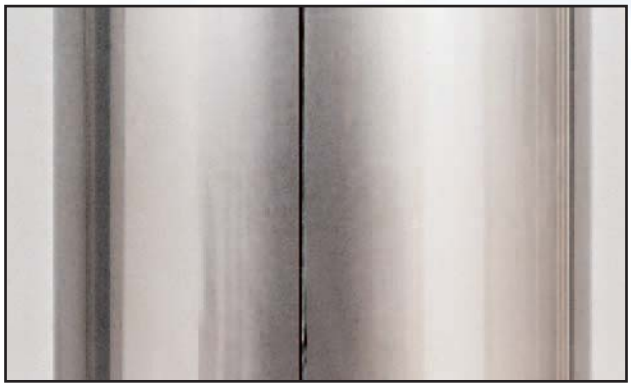
- 90° tee, flue gas inspection length and inspection door made using the deep drawing process.

- Special design of the inner wall so as to allow free expansion according to the flue gas temperature. The elongation, in according to the test of thermal stress defined by Standard EN 1856-1:2009, is less than 1 mm.

- Insulated individual cardboard packaging for each element.

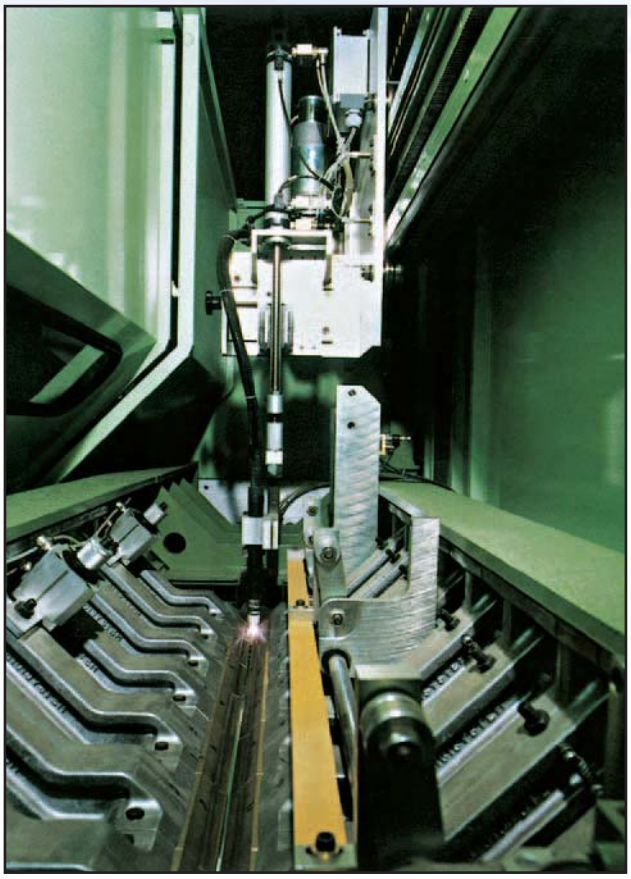
- Wall brackets and supports with adjustable lengths.

Main constructional characteristics



Welded element

Insulating sleeve



Microplasma welding process

Certification

CE
0051

IMQ QUALITY CIG

The Sabiana InoxSabiana 25 and 25R series bear the CE mark, according to the European standard EN 1856-1:2009, with the following designations:

InoxSabiana 25/25R with gasket
T200-P1-W-V2-L50050-O *

InoxSabiana 25/25R without gasket
T450-N1-D-V2-L50050-O **

InoxSabiana 25/25R without gasket
T450-N1-D-V2-L50050-G **

(*) øi 100÷300 mm: O50 - øi 350 mm: O75
(**) øi 100÷300 mm: O50 / G75 - øi 350 mm: O75 / G115

In addition, the series has undergone further tests and been certified with the voluntary IMQ mark.

ICIM
UNI EN ISO 9001:2008
CERTIFIED MANAGEMENT SYSTEM
Cert. n° 0545/5

Sabiana operates under an ISO 9001 certified Quality System.

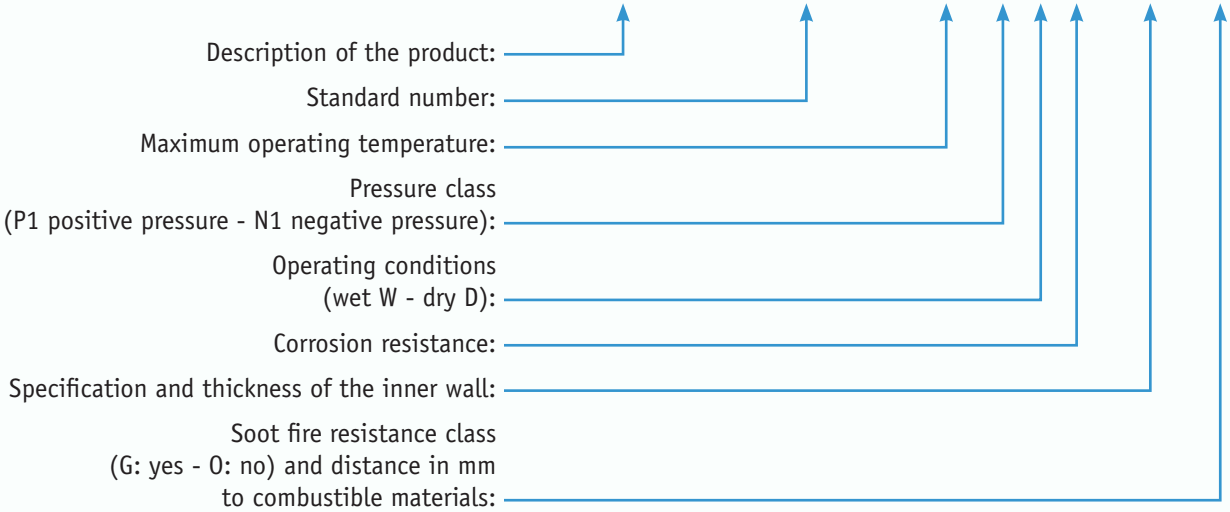
Main technical specifications

Designation of the product according to the EN 1856-1:2009 standard

InoxSabiana 25/25R system chimney with gasket EN 1856-1:2009 T200-P1-W-V2-L50050-O*

InoxSabiana 25/25R system chimney without gasket EN 1856-1:2009 T450-N1-D-V2-L50050-O**

InoxSabiana 25/25R system chimney without gasket EN 1856-1:2009 T450-N1-D-V2-L50050-G**



(*) øi 100÷300 mm: O50 – øi 350 mm: O75

(**) øi 100÷300 mm: O50 / G75 – øi 350 mm: O75 / G115

General characteristics

Element locking bands.

Resistance to condensate, even under pressure (provided by certified silicone gasket).

Possibility to turn each element 360° while maintaining the tightness characteristics unaltered.

Universal double wall product for the construction of chimneys and flues

Features:

- Rapid installation;
- Compact overall dimensions;
- No thermal bridge between the inner wall and outer wall;
- Perfect mechanical resistance, guaranteed by the locking band.

Summary table

Inside diameters	mm	100	130	150	180	200	250	300	350
Outside diameters	mm	150	180	200	230	250	300	350	400
Weight per linear metre, InoxSabiana25	kg/m	4.4	5.5	6.1	7.3	7.9	9.7	11.4	13.2
Weight per linear metre, InoxSabiana25R	kg/m	5.1	6.2	7.0	8.3	9.0	11.0	12.9	14.9
Inner wall		AISI 316L steel, 2B finish, nominal thickness 0.5 mm							
Rock wool insulation		25 mm thick - Min. density 90 kg/m³ - Tol. 0 + 30%							
InoxSabiana25 outer wall		AISI 304 steel, BA finish, nominal thickness 0.5 mm							
InoxSabiana25R outer wall		Annealed DHP copper 99.9, nominal thickness 0.6 mm							
Pressure class with gasket		P1 (200 Pa)							
Pressure class without gasket		N1 (40 Pa) negative pressure operation							
Max temperature of the flue gas with gasket	°C	200							
Max temperature of the flue gas without gasket	°C	450							
Gasket		Silicone rubber, black							
Thermal resistance of the wall R at 200°C	m²K/W	0.34	0.36	0.36	0.37	0.37	0.38	0.39	0.39
Minimum distance to combustible materials class O (flue serving a boiler on liquid or gas fuel)	mm	50							75
Minimum distance to combustible materials class G (flue serving a boiler on solid fuel)	mm	75							115
Average roughness value for the straight length		According to EN 13384-1: 2002							
Flow resistance coefficient of the insulated components		According to EN 13384-1: 2002							
Metric screws and bolts		Stainless steel							

InoxSabiana 25 — Installation

The Sabiana InoxSabiana 25 series features many components for supporting and securing the flues to the wall (the flue is not self-supporting).

Each insulated element has a male and a female joint. On the outer pipe the male end must be installed upwards.
Each insulated element shows the direction of flue gas flow (direction of installation), either by markings or a label.

The maximum distances shown in the following illustrations must be observed for all support and fastening elements.

All joints must be secured by applying the special locking band.

A spacer is provided for the stand-off for wall band, to allow installation at distances above the traditional 50 mm.

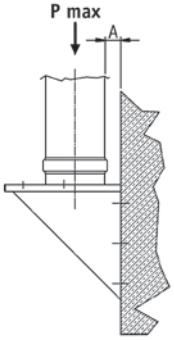
The wall support can be modified on site, and adapted to 4 different distances from the wall.

The adjustable flashing, together with the storm collar, allows suitable protection against bad weather where the flue passes through a roof.

Various cowls can be used to adapt the flue to the different environmental and installation conditions.

The minimum distance between the flue and combustible material is 50 mm for class O50, and 75mm for class G75 (see page 5).
If the flue passes through an intermediate floor or ceiling, the base support plate described in this catalogue must be used, with a minimum opening of at least 50 or 75 mm (depending on the class) between the outer wall and any combustible materials.

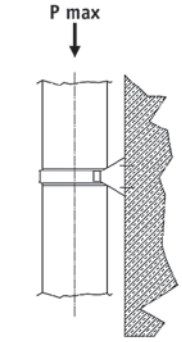
InoxSabiana 25 — Maximum load capacities



IDENTIFICATION	CODE
Wall support	0016750 ÷ 0016757

Maximum load capacity allowed with A = 50, 75, 100 and 125 mm
for the InoxSabiana 25/25R wall support:

	Flue Ø	100	130	150	180	200	250	300	350
InoxSabiana 25	Max. load capacity P (kg)	89	109	122	145	119	146	114	132
	Max. load capacity (m)	20	20	20	20	15	15	10	10
InoxSabiana 25R	Max. load capacity P (kg)	87	105	119	124	126	132	103	119
	Max. load capacity (m)	17	17	17	15	14	12	8	8

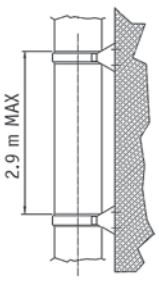


IDENTIFICATION	CODE
Wall support holding	0016980 ÷ 0016987

Maximum load capacity allowed
for the InoxSabiana 25 wall support holding:

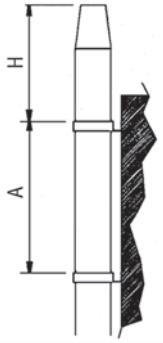
	Flue Ø	100	130	150	180	200	250	300	350
InoxSabiana 25	Max. load capacity P (kg)	79	99	110	131	103	126	91	106
	Max. load capacity (m)	18	18	18	18	13	13	8	8

Used in combination with the wall band (code 001676*) installed every 4 m.



Installation without using the wall bands (code 001676*).
Maximum distance between two InoxSabiana 25 wall support brackets: **2.9 m**.

Maximum load capacities

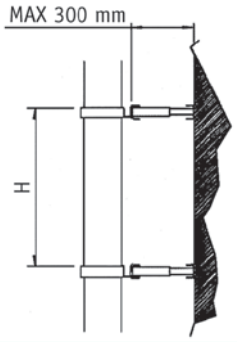


IDENTIFICATION	CODE
Wall band	0016760 ÷ 0016767

Maximum distance between two InoxSabiana 25 wall bands: ***A = 4 m***
Maximum distance between two InoxSabiana 25R wall bands: ***A = 2 m***

Max. self-supporting length InoxSabiana 25/25R:

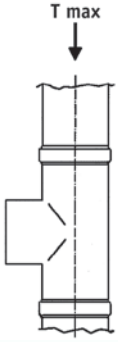
	Flue Ø	100	130	150	180	200	250	300	350
InoxSabiana 25	H (m)	2	2	2	2	2	1.5	1.5	1.5
InoxSabiana 25R	H (m)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



IDENTIFICATION	CODE
• Wall band	0016760 ÷ 0016767
• Adjustable length	0016630 ÷ 0016647

Maximum distance between two wall band with adjustable length fully extended to max 300 mm:

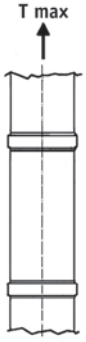
	Flue Ø	100	130	150	180	200	250	300	350
InoxSabiana 25	H (m)	4	4	4	4	4	3	3	3
InoxSabiana 25R	H (m)	2	2	2	2	2	2	2	2



IDENTIFICATION	CODE
90° equal tee	0016680 ÷ 0016687

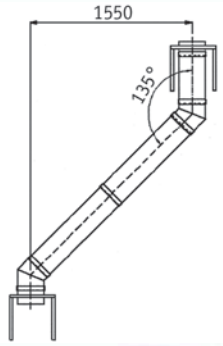
Maximum load capacity allowed for the InoxSabiana 25/25R 90° equal tee:

	Flue Ø	100	130	150	180	200	250	300	350
InoxSabiana 25	Max. load capacity P (kg)	44	55	61	73	79	68	80	92
	Max. load capacity (m)	10	10	10	10	10	7	7	7
InoxSabiana 25R	Max. load capacity P (kg)	41	55	56	58	63	66	77	75
	Max. load capacity (m)	8	8	8	7	7	6	6	5



Maximum traction resistance of the InoxSabiana 25/25R elements:

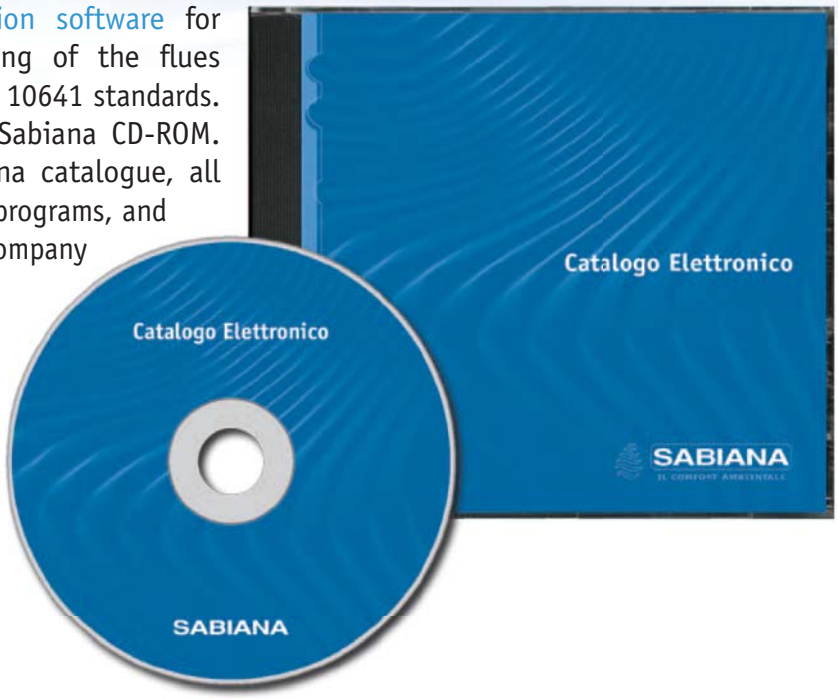
	Flue Ø	100	130	150	180	200	250	300	350
InoxSabiana 25	Max. traction resistance T (kg)	89	109	122	145	119	146	114	132
InoxSabiana 25R	Max. traction resistance T (kg)	71	87	109	116	95	116	91	105



Maximum deviation allowed for InoxSabiana 25/25R:
- angle up to 45°;
- maximum offset 1550 mm.

Sizing the flues

Sabiana has developed a selection software for specifiers that helps in the sizing of the flues according to the UNI 9615 and UNI 10641 standards. The program is available on the Sabiana CD-ROM. The CD contains the entire Sabiana catalogue, all the specially developed calculation programs, and numerous interesting facts on the company and its products.



Reference standards

For the development of the system chimney,
the designer and the installer must refer to the following standards:

UNI EN 13384-1

Chimneys - Thermal and dynamic fluid calculation methods.
Part 1: Chimneys serving one appliance.

UNI EN 1856-1:2009

Chimneys - Requirements for metal chimneys.
Part 1 - System chimney products.

EN 1443

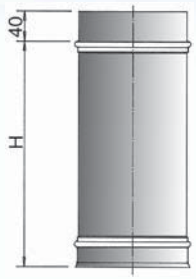
Chimneys - General requirements.

UNI EN 1859-1:2009

Chimneys - Test methods.

The chimneys can be installed using any other method considered appropriate by the installer, providing it is in accordance with current legislation of the reference nation.

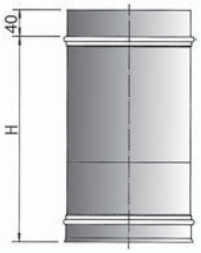
Straight length



		Length H = 200	Length H = 450	Length H = 950
ID	OD	Code	Code	Code
100	151	0016600	0016610	0016620
130	181	0016601	0016611	0016621
150	201	0016602	0016612	0016622
180	231	0016603	0016613	0016623
200	251	0016604	0016614	0016624
250	301	0016605	0016615	0016625
300	351	0016606	0016616	0016626
350	401	0016607	0016617	0016627

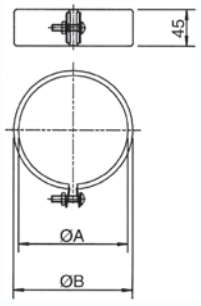
Adjustable length

- Not load-bearing, only use in sub-horizontal sections.
- After having established the required length, cut the rock wool to size and secure the sliding parts.



		Length H = 260-420	Length H = 200-260
ID	OD	Code	Code
100	151	0016630	0016640
130	181	0016631	0016641
150	201	0016632	0016642
180	231	0016633	0016643
200	251	0016634	0016644
250	301	0016635	0016645
300	351	0016636	0016646
350	401	0016637	0016647

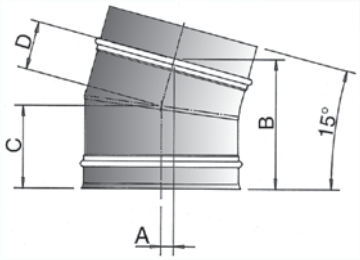
Locking band



Flue ID	Ø A	Ø B	Code
100	154	166	0016780
130	184	196	0016781
150	204	216	0016782
180	234	246	0016783
200	254	266	0016784
250	304	316	0016785
300	354	366	0016786
350	404	416	0016787

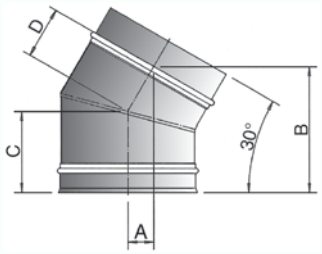
The measurements are expressed in mm

15° elbow



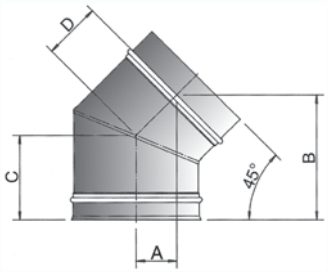
ID	OD	A	B	C	D	Code
100	151	14,5	150	96	56	0016650
130	181	15	154	98	58	0016651
150	201	15,5	156,5	99	59	0016652
180	231	16	160,5	101	61	0016653
200	251	16,5	163	102,5	62,5	0016654
250	301	17	169,5	106	66	0016655
300	351	18	176	109	69	0016656
350	401	19	182,5	112,5	72,5	0016657

30° elbow



ID	OD	A	B	C	D	Code
100	151	33	164,5	106	66	0016660
130	181	35	171	110	70	0016661
150	201	36,5	176	113	73	0016662
180	231	38,5	183,5	117	77	0016663
200	251	40	188,5	119,5	79,5	0016664
250	301	43	201	126,5	86,5	0016665
300	351	46,5	213,5	133	93	0016666
350	401	50	226	139,5	99,5	0016667

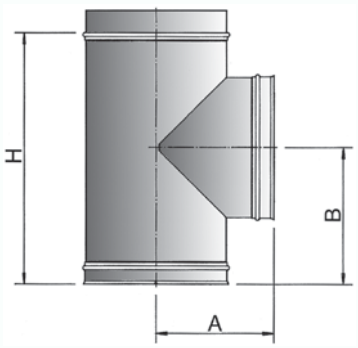
45° elbow



ID	OD	A	B	C	D	Code
100	151	54,5	172	117	77	0016670
130	181	59	182,5	123,5	83,5	0016671
150	201	62	189,5	127,5	87,5	0016672
180	231	66,5	200	134	94	0016673
200	251	69,5	207,5	138	98	0016674
250	301	76,5	225	148,5	108,5	0016675
300	351	84	242,5	158,5	118,5	0016676
350	401	91,5	260,5	169	129	0016677

90° tee

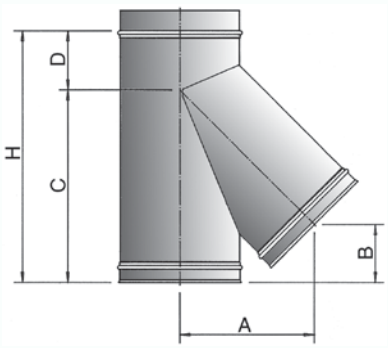
- Made using
  the deep drawing process.



ID	OD	A	B	H	Code
100	151	160,5	162	285	0016680
130	181	175,5	245	450	0016681
150	201	185,5	245	450	0016682
180	231	200,5	245	450	0016683
200	251	210,5	245	450	0016684
250	301	235,5	245	450	0016685
300	351	260,5	295	550	0016686
350	401	285,5	295	550	0016687

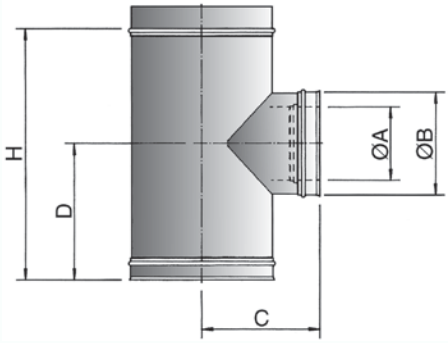
135° tee

- Not load-bearing.



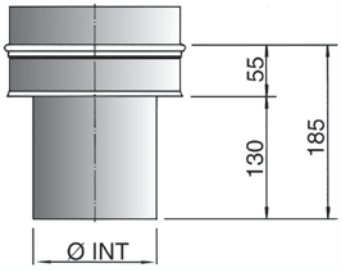
ID	OD	A	B	C	D	H	Code
100	151	192	106,5	320,5	99,5	450	0016700
130	181	218	117,5	335,5	114,5	450	0016701
150	201	235	110,5	345,5	104,5	450	0016702
180	231	261	149,5	411,5	138,5	550	0016703
200	251	278	142,5	421,5	128,5	550	0016704
250	301	320,5	175	496,5	153,5	650	0016705
300	351	363,5	182	546,5	153,5	700	0016706
350	401	406	189,5	596,5	153,5	750	0016707

Reduced 90° tee



ID	OD	Ø A	Ø B	C	D	H	Code
200	251	150	201	210,5	245	450	0016694
250	301	200	251	235,5	245	450	0016695
300	351	250	301	260,5	245	450	0016696
350	401	300	351	285,5	295	550	0016697

Boiler adaptor



ID	OD	Code
100	151	0016800
130	181	0016801
150	201	0016802
180	231	0016803
200	251	0016804
250	301	0016805
300	351	0016806
350	401	0016807

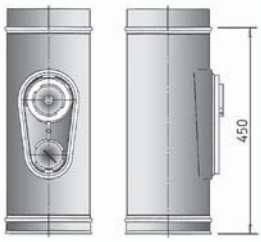
The measurements are expressed in mm

Inspection elements

Flue gas inspection length

- Made using the deep drawing process.
- To be installed in the vertical sections above a 90° tee or a 135° tee and at a distance of at least 3 times the ID of the chimney.
- Also to be installed in the sub-horizontal sections where required by the legislation in force.
- Supplied complete with thermometer.

ID	OD	Code
100	151	0016710
130	181	0016711
150	201	0016712
180	231	0016713
200	251	0016714
250	301	0016715
300	351	0016716
350	401	0016717



Inspection length

- Made using the deep drawing process.
- To be installed every 10 m of connection in the sub-horizontal sections and in the other cases where required by the legislation in force.
- Can be used, together with the condensate collection cap, as a collection chamber for unburned residues in gas-fired systems.
- To be used for under pressure installations or P2 with T160.

ID	OD	Code
130	181	0016721
150	201	0016722
180	231	0016723
200	251	0016724
250	301	0016725
300	351	0016726
350	401	0016727

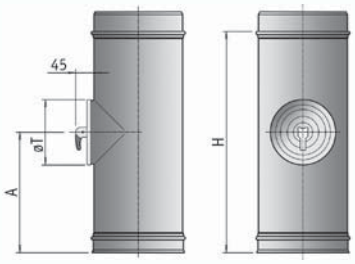
High temperature tee plug

- To be used, together with the 90° tee and reduced tee, as an inspection point for the class T450 chimneys.

ID	Code
100	0016970
130	0016971
150	0016972
180	0016973
200	0016974

Inspection module with plug

- Supplied for use in T200-P1.
- For use in T450-N1 replace the supplied plug with the high temperatures single wall inspection plug.
- To be installed every 10 m of connection in the sub-horizontal sections and in the other cases where required by the legislation in force.
- Can be used, together with the condensate collection cap, as a collection chamber for unburned residues in gas-fired systems.



ID	OD	A	H	ØT	Code
100	151	162	285	100	0016990
130	181	245	450	130	0016991
150	201	245	450	130	0016992
180	231	245	450	130	0016993
200	251	245	450	150	0016994
250	301	245	450	150	0016995
300	351	245	450	150	0016996
350	401	245	450	250	0016997

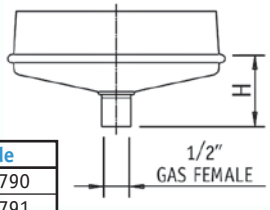
High temperatures single wall inspection plug

- To be used for T450-N1 installations, together with inspection modules with plug, replacing plugs with silicone gaskets.

ID	Code
100	0014681
130	0014683
150	0014684
250	0014688

Condensate collection elements

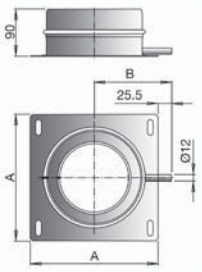
Condensate collector



ID	H	Code
100	52	0016790
130	55	0016791
150	57	0016792
180	61	0016793
200	63	0016794
250	68	0016795
300	72	0016796
350	79	0016797

Base plate with side condensate drain

- Element to be installed at the bottom of the chimney to support the flue when this is rested on a base or a pair of shelves. Fitted with stainless steel condensate drain.



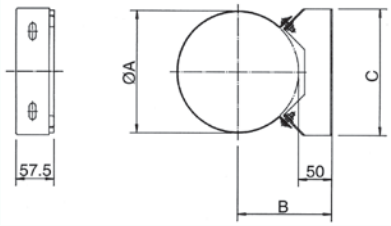
ID	OD	A	B	Code
100	151	211	131	0016960
130	181	241	146	0016961
150	201	261	156	0016962
180	231	291	171	0016963
200	251	311	181	0016964
250	301	361	206	0016965
300	351	411	231	0016966
350	401	461	256	0016967

The measurements are expressed in mm

Fastening elements

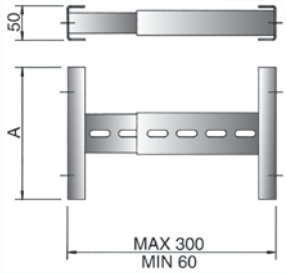
Wall band

- To be installed every 4 m.
- Ensures lateral stability against the action of the wind.



Flue ID	Ø A	B	C	Code
100	153,5	126	169	0016760
130	183,5	141	190	0016761
150	203,5	151	205	0016762
180	233,5	166	226	0016763
200	253,5	176	240	0016764
250	303,5	201	275	0016765
300	353,5	226	310	0016766
350	403,5	251	346	0016767

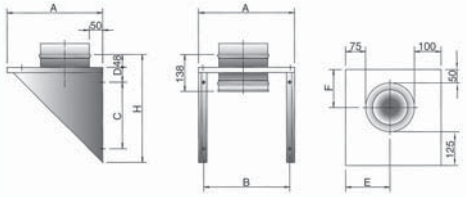
Stand-off for wall band



ID	OD	A	Code
100	**151**	169	0016870
130	**181**	190	0016871
150	**201**	205	0016872
180	**231**	226	0016873
200	**251**	240	0016874
250	**301**	275	0016875
300	**351**	310	0016876
350	**401**	346	0016877

Wall support

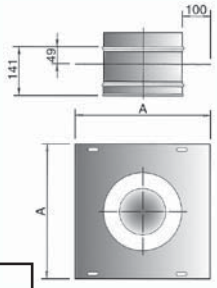
- Turning the plate on the supports produces 4 different distances from the wall: 50, 75, 100 and 125 mm.



ID	OD	A	B	C	D	E	F	H	Code
100	**151**	326	292	216	56	150	125,5	370	0016750
130	**181**	356	322	246	56	165,5	140,5	400	0016751
150	**201**	376	342	266	56	175,5	150,5	420	0016752
180	**231**	406	372	296	56	190,5	165,5	450	0016753
200	**251**	426	392	316	56	200,5	175,5	470	0016754
250	**301**	476	442	366	56	225,5	200,5	520	0016755
300	**351**	526	492	326	101	250,5	225,5	570	0016756
350	**401**	576	542	376	101	275,5	250,5	620	0016757

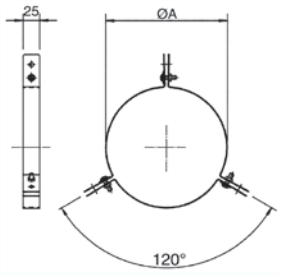
Base support plate

- Used for the connection of a brick collection chamber for unburned residues to the first module in the chimney or when passing through the floors.



ID	OD	A	Code
100	**151**	350	0016880
130	**181**	350	0016881
150	**201**	350	0016882
180	**231**	350	0016883
200	**251**	350	0016884
250	**301**	500	0016885
300	**351**	500	0016886
350	**401**	500	0016887

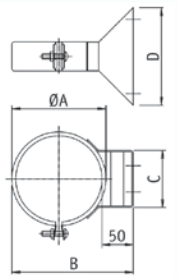
Bracing bracket



ID	Ø A	Code
100	153,5	0016770
130	183,5	0016771
150	203,5	0016772
180	233,5	0016773
200	253,5	0016774
250	303,5	0016775
300	353,5	0016776
350	403,5	0016777

Wall support holding

- To be used instead of the locking band.
- To be used to support the stack before and after an offset or where, due to space restrictions, the wall support cannot be used.
- To be installed above an adjustable length used in a vertical section.

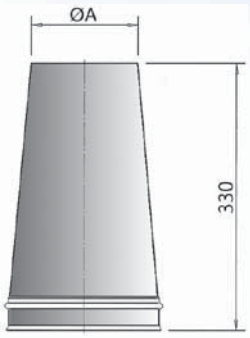


ID	ØA	B	C	D	Code
100	165	208	102	156	0016980
130	195	238	123	165	0016981
150	215	258	137	171	0016982
180	245	288	159	180	0016983
200	265	308	173	186	0016984
250	315	358	208	200	0016985
300	365	408	243	215	0016986
350	415	458	279	230	0016987

The measurements are expressed in mm

Top stub

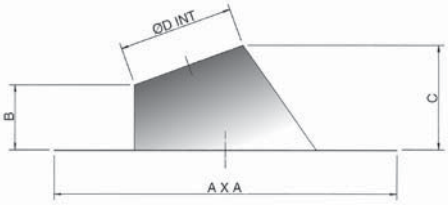
- Only used when the bottom of the chimney is installed with a 90° tee or a 135° tee.



ID	OD	Ø A	Code
100	151	102	0016840
130	181	132	0016841
150	201	152	0016842
180	231	182	0016843
200	251	202	0016844
250	301	252	0016845
300	351	302	0016846
350	401	352	0016847

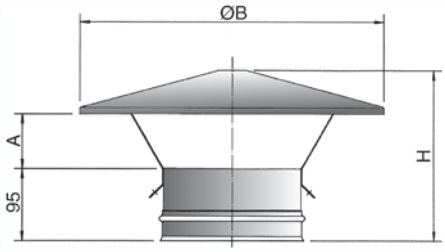
Adjustable flashing from 0° to 35°

- Material: Aluminium.
- Should be used together with the storm collar.



Flue ID	A	B	C	Ø D	Code
100	600	120	182	181	0016810
130	635	120	193	213	0016811
150	660	120	200	234	0016812
180	698	120	211	266	0016813
200	737	140	238	287	0016814
250	814	160	277	341	0016815
300	891	180	315	394	0016816
350	967	200	353	447	0016817

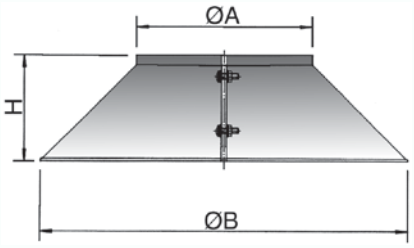
Terminal with cover



ID	OD	A	Ø B	H	Code
100	151	80	350	222	0016850
130	181	80	400	225	0016851
150	201	80	420	227	0016852
180	231	90	450	240	0016853
200	251	90	480	242	0016854
250	301	110	560	272	0016855
300	351	110	630	278	0016856
350	401	110	680	283	0016857

Storm collar

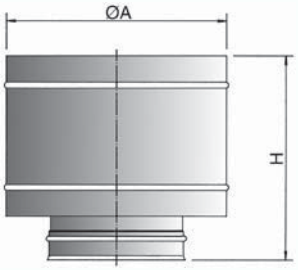
- Material: Aluminium.



Flue ID	Ø A	Ø B	H	Code
100	152	352	110	0016820
130	182	382	110	0016821
150	202	402	110	0016822
180	232	472	130	0016823
200	252	492	130	0016824
250	302	582	150	0016825
300	352	672	170	0016826
350	402	762	190	0016827

Rain cup

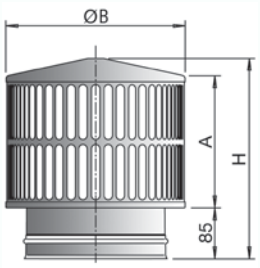
- Prevents rain from entering inside the chimney, even with crosswinds.
- Tested in compliance with EN 1856-1:2009.



ID	OD	Ø A	H	Code
100	151	251	290	0016860
130	181	301	290	0016861
150	201	351	290	0016862
180	231	421	295	0016863
200	251	481	290	0016864
250	301	571	290	0016865
300	351	691	295	0016866
350	401	781	300	0016867

Gas vent terminal

- Terminal made to protect the chimney against intrusion, and with a special design.

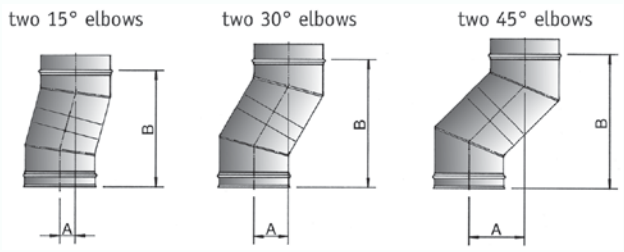


ID	OD	A	Ø B	H	Code
130	181	120	230	227	0016591
150	201	120	250	229	0016592
180	231	220	300	334	0016593
200	251	220	350	339	0016594
250	301	220	400	345	0016595
300	351	220	420	347	0016596
350	401	248	480	381	0016597

The measurements are expressed in mm

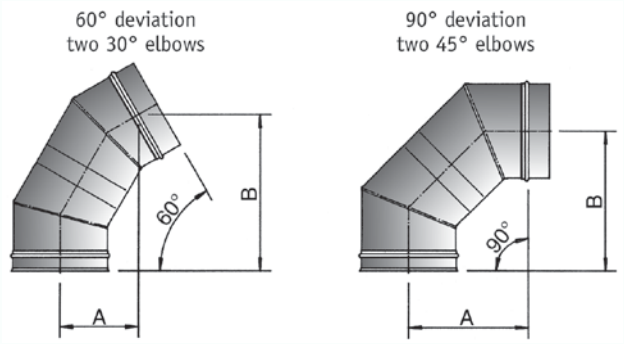
Offsets, deviations and couplings

Offset



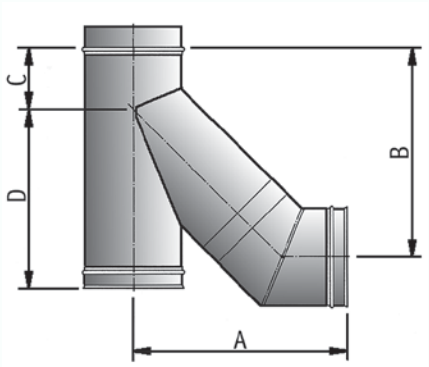
ID	two 15° elbows		two 30° elbows		two 45° elbows	
	A	B	A	B	A	B
100	39,5	298,5	86	322	137	332,5
130	40,5	306,5	90	337	146,5	353,5
150	41	311,5	93	347	152	367,5
180	42	319,5	97	362	161	388,5
200	42,5	324,5	99,5	372	167	403
250	44,5	337,5	106,5	397	181,5	438
300	46	350,5	113	422	196	473,5
350	48	363,5	119,5	447	211	509

Deviations

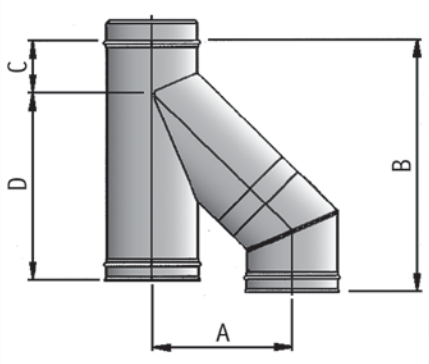


ID	60° deviation two 30° elbows		90° deviation two 45° elbows	
	A	B	A	B
100	144	288,5	215	255
130	151	301,5	230	270
150	156	310,5	240	280
180	163,5	323,5	255	295
200	168,5	332	265	305
250	181	353,5	290	330
300	193,5	375,5	315	355
350	206	397	340	380

Coupling 135° tee with 45° elbow



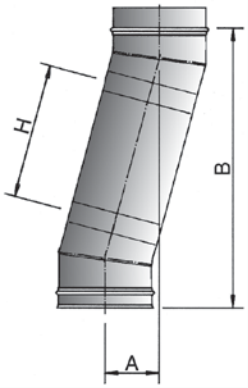
ID	Coupling 135° tee with 45° elbow			
	A	B	C	D
100	364,5	377,5	99,5	320,5
130	400,5	391,5	114,5	335,5
150	425	401,5	104,5	345,5
180	461	465,5	138,5	411,5
200	485	475,5	128,5	421,5
250	545,5	550,5	153,5	496,5
300	606	600,5	153,5	546,5
350	666	650,5	153,5	596,5



ID	Coupling 135° tee with 45° elbow			
	A	B	C	D
100	247	453	129,5	320,5
130	277	474	114,5	335,5
150	297	488	104,5	345,5
180	327	559	138,5	411,5
200	347	574	128,5	421,5
250	397	659	153,5	496,5
300	447	719	153,5	546,5
350	497	780	153,5	596,5

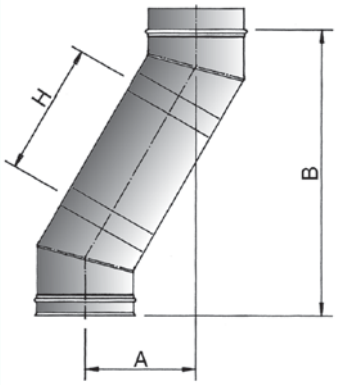
The measurements are expressed in mm

Offset with two 15° elbows and one straight length



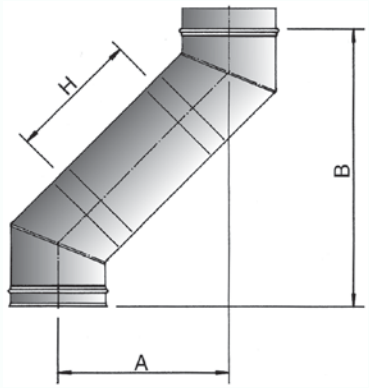
ID	two 15° elbows +					
	Straight length H = 200		Straight length H = 450		Straight length H = 950	
	A	B	A	B	A	B
100	91	493	156	733	285	1217
130	92	500	157	741	286	1224
150	93	505	158	746	287	1229
180	94	512	159	754	288	1236
200	95	517	160	759	289	1242
250	96	531	161	772	290	1255
300	98	544	163	785	292	1268
350	100	556	165	798	294	1281

Offset with two 30° elbows and one straight length



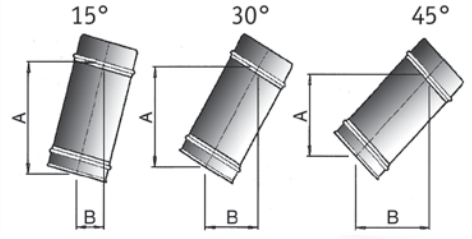
ID	two 30° elbows +					
	Straight length H = 200		Straight length H = 450		Straight length H = 950	
	A	B	A	B	A	B
100	186	495	311	712	561	1145
130	190	510	315	727	565	1160
150	193	520	318	737	568	1170
180	197	535	322	752	572	1185
200	200	545	325	762	575	1195
250	206	570	331	787	581	1220
300	213	595	338	812	588	1245
350	220	620	345	837	595	1270

Offset with two 45° elbows and one straight length



ID	two 45° elbows +					
	Straight length H = 200		Straight length H = 450		Straight length H = 950	
	A	B	A	B	A	B
100	280	474	456	650	809	1004
130	288	495	465	672	818	1025
150	294	509	470	685	824	1039
180	302	530	479	707	833	1060
200	308	545	485	721	839	1075
250	323	580	500	756	853	1110
300	338	615	514	792	868	1145
350	352	650	528	827	883	1180

Deviation of the axis of the straight length at an angle



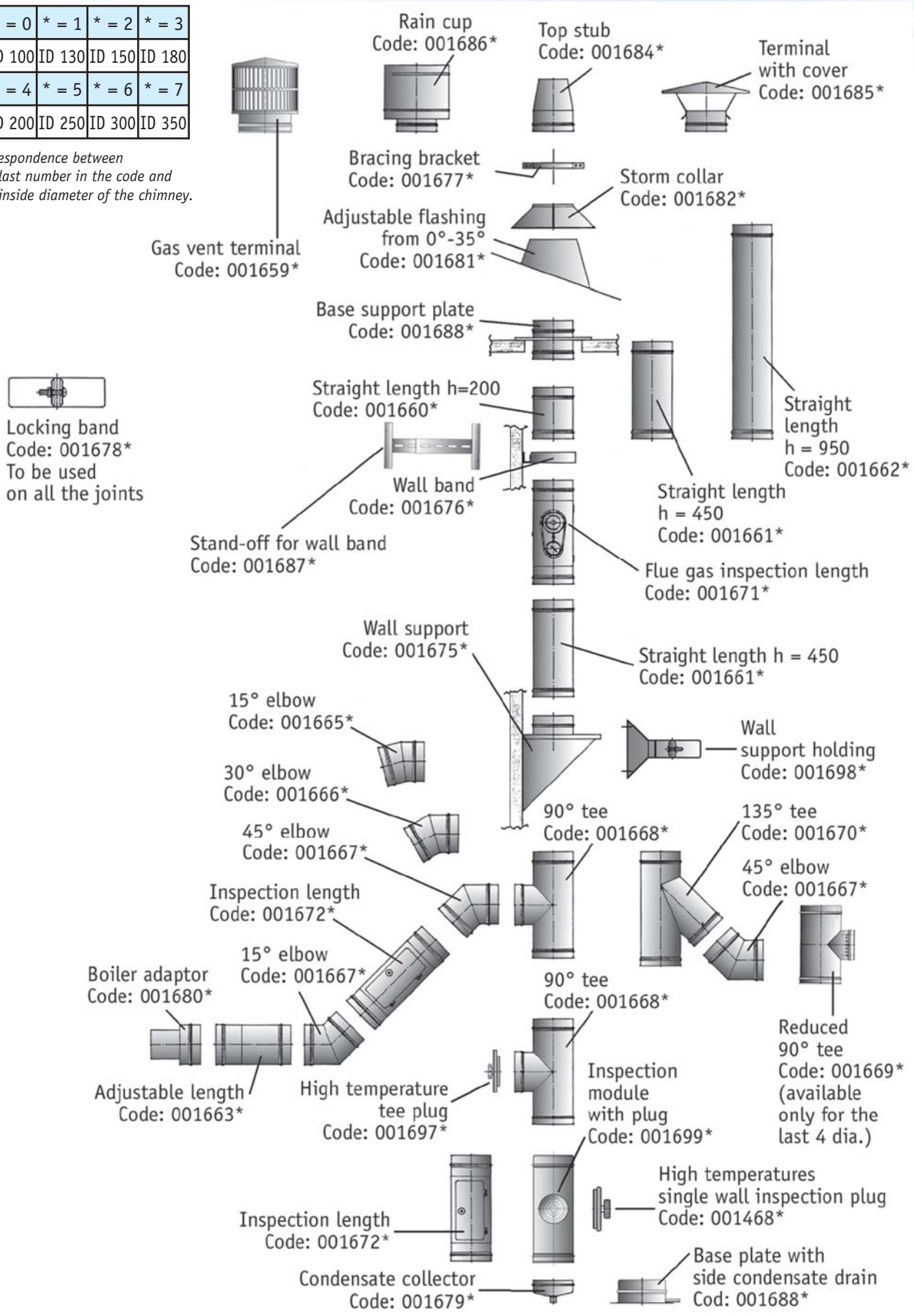
useful H	15°		30°		45°	
	A	B	A	B	A	B
200	193	52	173	100	141	141
450	435	116	390	225	318	318
950	918	246	823	475	672	672

The measurements are expressed in mm

Typical composition of a chimney

* = 0	* = 1	* = 2	* = 3
ID 100	ID 130	ID 150	ID 180
* = 4	* = 5	* = 6	* = 7
ID 200	ID 250	ID 300	ID 350

Correspondence between the last number in the code and the inside diameter of the chimney.



The measurements are expressed in mm

Flue bill of materials

InoxSabiana 25 series flue bill of materials, to be attached to the order form.

Reference: .....

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Indicate the quantity for each component

Code	Description	ID 100 * = 0	ID 130 * = 1	ID 150 * = 2	ID 180 * = 3	ID 200 * = 4	ID 250 * = 5	ID 300 * = 6	ID 350 * = 7
001662*	Straight length H = 950								
001661*	Straight length H = 450								
001660*	Straight length H = 200								
001663*	Adjustable length 260-420 mm								
001664*	Adjustable length 200-260 mm								
001678*	Locking band								
001665*	15° elbow								
001666*	30° elbow								
001667*	45° elbow								
001668*	90° tee								
001670*	135° tee								
001669*	Reduced 90° tee	X	X	X	X				
001680*	Boiler adaptor								
001671*	Flue gas inspection length								
001672*	Inspection length								
001699*	Inspection module with plug								
001697*	High temperature tee plug						X	X	X
001679*	Condensate collector								
001696*	Base plate with side condensate drain								
001676*	Wall band								
001687*	Stand-off for wall band								
001675*	Wall support								
001698*	Wall support holding								
001688*	Base support plate								
001677*	Bracing bracket								
001684*	Top stub								
001685*	Terminal with cover								
001686*	Rain cup								
001659*	Gas vent terminal								
001681*	Adjustable flashing from 0° to 35°								
001682*	Storm collar								
001689*	90° tee with dia. 80 coupling								

Notes: .....

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CERTIFICATO DEL CONTROLLO DEL PROCESSO DI FABBRICA

0051– CPD – 0004

In conformità al DPR n. 246/93, come modificato dal DPR n. 499/97, attuazione della Direttiva 89/106/CEE relativa ai prodotti da costruzione (Direttiva Prodotti da Costruzione – CPD), come modificata dalla Direttiva 93/68/CEE, si dichiara che il prodotto da costruzione

SISTEMA CAMINO METALLICO

Serie: vedi allegato
Designazione: vedi allegato

costruito da:

SABIANA S.p.A.
Via Piave, 53 – 20011 Corbetta (MI)

nella Fabbrica:

PI.E000IW

è sottoposto dal Produttore alle prove di tipo iniziali (ITT) del prodotto e ad un Controllo del Processo di Fabbrica (FPC).
Per detto prodotto, l'IMQ ha eseguito l'ispezione iniziale della fabbrica e del Controllo del Processo di Fabbrica (FPC) ed esegue inoltre la sorveglianza continua del medesimo Controllo del Processo di Fabbrica (FPC).

Questo Certificato attesta che tutte le prescrizioni relative al Controllo del Processo di Fabbrica (FPC) descritte nell'Allegato ZA della norma

EN 1856-1:2009

vengono applicate.

Questo Certificato annulla e sostituisce quello emesso in data 30-03-2005 e rimane valido fino a che le condizioni previste nella norma armonizzata citata ovvero le modalità di fabbricazione del prodotto ovvero l'organizzazione stessa del Controllo del Processo di Fabbrica (FPC) applicato vengano modificate in modo significativo.

IMQ
Direttore Tecnico CPD
(Ing. V. Baggio)

Milano, 11-04-2013

Questo Certificato è rilasciato dall'IMQ S.p.A. quale organismo notificato per la direttiva 89/106/CEE.
Il numero identificativo dell'IMQ S.p.A. quale organismo notificato è: 0051.

Mod. 725/4

ALLEGATO **1 di 1**

AL CERTIFICATO DEL CONTROLLO DEL PROCESSO DI FABBRICA n°: 0051-CPD-0004

Data: 2013-04-11

Serie:	Diametri interni (mm) DN:	Designazione:
INOXSABIANA 25 (con guarnizione)	100-130-150-180-200-250-300	T200 P1 W V2 L50050 O50
	350	T200 P1 W V2 L50050 O75
INOXSABIANA 25 (senza guarnizione)	100-130-150-180-200-250-300	T450 N1 D V2 L50050 O50
	350	T450 N1 D V2 L50050 O75
	100-130-150-180-200-250-300	T450 N1 D V2 L50050 G75
	350	T450 N1 D V2 L50050 G115
INOXSABIANA 25R (con guarnizione)	100-130-150-180-200-250-300	T200 P1 W V2 L50050 O50
	350	T200 P1 W V2 L50050 O75
INOXSABIANA 25R (senza guarnizione)	100-130-150-180-200-250-300	T450 N1 D V2 L50050 O50
	350	T450 N1 D V2 L50050 O75
	100-130-150-180-200-250-300	T450 N1 D V2 L50050 G75
	350	T450 N1 D V2 L50050 G115

Mod. 725/3

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ICIM
www.icim.it

CERTIFICATO n. / *CERTIFICATE No.* **0545/5**

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY

SABIANA S.p.A.

UNITA' OPERATIVE
OPERATIVE UNITS

Sede e Unità Operativa
Via Piave, 53 - 20011 Corbetta (MI)
Unità Operativa
Via Virgilio, 2 - 20013 Magenta (MI)
Italia

E' CONFORME ALLA NORMA
IS IN COMPLIANCE WITH THE STANDARD

UNI EN ISO 9001:2008

PER LE SEGUENTI ATTIVITA'
FOR THE FOLLOWING ACTIVITIES

EA: 18

Progettazione, produzione e assistenza di apparecchiature per il riscaldamento e il condizionamento dell'aria (aerotermi, termostrisce radianti, ventilconvettori e unità trattamento aria) e canne fumarie.

Design, production and service of heating and air conditioning equipment (unit heaters, radiant panels, fan coil units and air handling units) and chimneys.

Riferirsi al Manuale della Qualità per l'applicabilità dei requisiti della norma di riferimento.
Refer to Quality Manual for details of application to reference standard requirements.

Il presente certificato è soggetto al rispetto del regolamento per la certificazione dei sistemi di gestione per la qualità delle aziende.
The use and the validity of this certificate shall satisfy the requirements of the rules for the certification of company quality management systems.

Data emissione	Emissione corrente	Data di scadenza
First issue	*Current issue*	*Expiring date*
10/06/1996	10/04/2012	09/04/2015

ICIM S.p.A.
Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI)

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale.

CISQ is the Italian Federation of management system Certification Bodies.

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

SGQ N° 004A SSI N° 008G
SGA N° 005D PRD N° 004B
SCR N° 006F ISP N° 046E

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

FEDERAZIONE CISQ
www.cisq.com

C 25 - EX - 06/14
Cod. A4160100 B/06/14

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