ADELINOX

TERMOLAND SERVICE

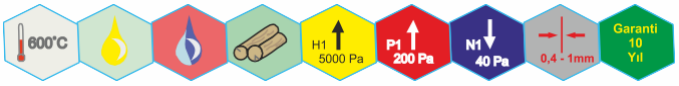
ADL SW

Single Wall and Cascade Chimney Systems

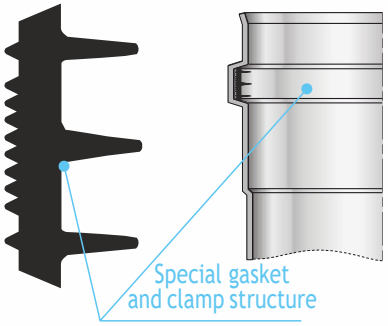
ADL SW

Single Wall Chimney Systems ADL-SW

ADL-SW is a stainless steel single wall chimney system recommended all over Europe. It guarantees performance and safety in all kinds of chimney installations, arising from more than twenty years of production experience in the sector.



This system combines the quality of AISI 316L stainless steel with the latest production techniques. When AISI 316 L quality stainless steel meets with our modern machinery and production technologies, we encounter the SW system with very ditferent usage areas. Chimney components are combined with longitudinal welding technology in a controlled inert gas environment. The special structure in the chimney connections makes this product usable for every projectable situation. Thanks to its 3-claw sealing gasket structure certified in accordance with EN 14241-1 norms, it provides a perfect sealing in positive pressure (P1) chimneys in terms of both waste gas and condensation water. It can be used without gasket in systems operating at negative pressure (N1).



It does not cause any problems depending on the temperature level. It has been tested up to 600 °C. V2 corrosion resistance, which has been tested in the laboratory, allows all kinds of installations working with liquid, solid and gaseous fuels.

Usage areas

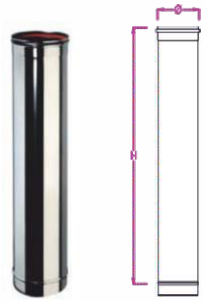
- Heating and hot water boilers
- Atmospheric, blown burner or condensing boiler systems
- Solid, liquid and gas fired boiler systems
- Industrial or domestic kitchen hoods
- Ventilation systems
- Waste gas systems of process devices
- Wood stoves
- Fireplaces
- Pellet stoves
- In-shaft flue systems
- Cascade chimney systems
- Chimney renovation operations

Features

- Production with TIG and LASER welding technology
- 0.4mm - 2.00mm sheet thickness
- BA coated glossy surface
- Standard production in diameters between Ø80mm - Ø 900mm
- V2 corrosion resistance
- Suitable for N1-P1-H1 systems
- Resistance to soot fire
- 50mm special sealed structure
- Tested up to 600 °C

Advantages

- Use in accordance with standards in ditferent fuel types (solid, liquid, natural gas)
- Quick and easy assembly
- 100% sealing with special structure
- Special seal system in P1 pressure class systems
- Wide product range
- Extra fuel savings thanks to its high thermal permeability
- Use in accordance with standards in ditferent pressure classes N1 and P1
- Use in accordance with standards in ditferent working types D and W
- Resistance to soot fire
- Long-lasting thanks to V2 corrosion resistance.

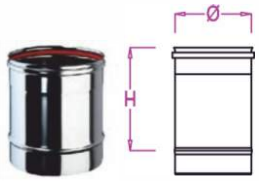


Ø	H
60-900mm	950mm

1000 mm. Length

Ø	H
60-900mm	450mm

500 mm. Length



Ø	H
60-900mm	200mm

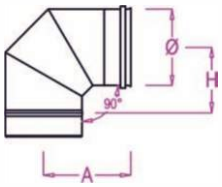
250 mm. Length

Ø	H
60-900mm	200mm

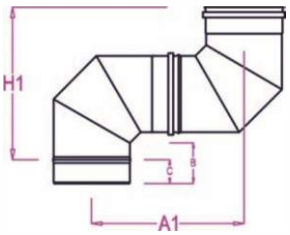
Length with measurement point 250 mm.

Ø	H min	H max
60-900mm	250mm	350mm

Adjustable Lenght

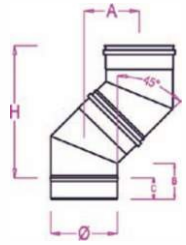


Ø	A	H
60	133	79
80	140	80
100	145	95
130	155	105
150	163	113
180	180	130
200	190	140
250	215	165
300	240	190
350	265	215
400	305	251
450	330	276
500	355	301



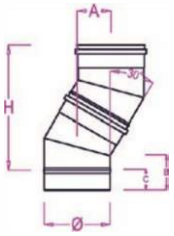
Ø	A1	H1
60	216	212
80	210	220
100	240	240
130	260	260
150	276	276
180	310	310
200	330	330
250	380	370
300	430	430
350	480	470
400	560	556
450	610	606
500	660	656

Elbow 90°



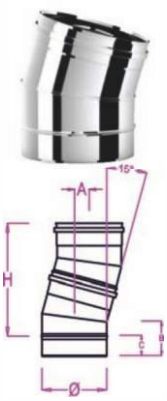
Ø	A	H	B
60	77	133	65
80	83	202	65
100	89	216	65
130	98	240	65
150	104	251	65
180	113	272	65
200	119	286	65
250	133	322	65
300	148	357	65
350	161	389	65
400	176	425	65
450	190	460	65
500	220	495	65

Elbow 45°



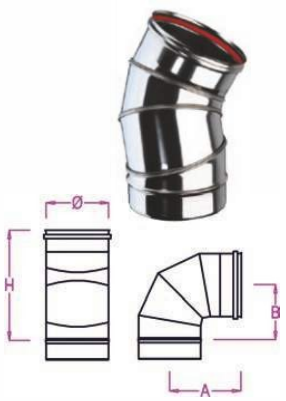
Ø	A	H	B
60	58	213	75
80	60	223	75
100	62	233	75
130	67	248	75
150	69	258	75
180	73	273	75
200	76	283	75
250	82	308	75
300	89	333	75
350	97	358	75
400	103	383	75
450	110	408	75
500	117	433	75

Elbow 30°



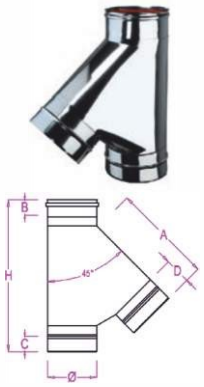
Ø	A	H	B
60	27	209	75
80	28	214	75
100	29	219	75
130	30	227	75
150	31	231	75
180	32	240	75
200	32	244	75
250	34	258	75
300	36	271	75
350	38	284	75
400	39	297	75
450	41	310	75
500	43	323	75

Elbow 15°



Ø	A	B	H
60	160	110	200
80	165	115	200
100	170	120	230
130	185	135	260
150	195	145	260
180	205	155	310
200	210	160	315
250	300	255	465
300	340	270	500
350	380	285	535
400	420	300	570
450	460	315	610
500	500	330	650

Adjustable Elbow 0-90



Ø	A	H	B-C-D
60	188	299	80
80	195	309	80
100	232	349	80
130	184	363	80
150	209	408	80
180	248	468	80
200	272	510	80
250	343	618	80
300	371	670	80
350	416	738	80
400	458	810	80
450	500	880	80
500	577	940	80

Tee 135°

Ø	A	B	H
60			
80			
100	96	125	200
130	111	125	200
150	121	125	200
180	136	125	200
200	146	125	200
250	171	125	200
300	196	125	200
350	221	125	200
400	246	125	200
450	271	125	200
500	296	125	200

Cascade Tee

Ø	A	B	H
60	56	119	190
80	86	119	190
100	96	119	190
130	115	162	270
150	125	162	270
180	140	247	440
200	150	247	440
250	175	247	440
300	200	247	440
350	221	318	540
400	240	318	540
450	265	322	590
500	290	347	640

Tee 90°

Ø	A	H
60	120	190
80	120	190
100	120	190
130	160	270
150	160	270
180	245	440
200	245	440
250	245	440
300	245	440
350	245	440
400	245	440
450	245	440
500	245	440

Inspection lenght with door

Ø	H
60-600mm	80mm

Side Drain Plug

Ø	H
60-600mm	80mm

Drain Plug

Ø	A	H
60		
80	185	165
100	185	165
130	260	200
150	260	200
180	310	250
200	370	250
250	468	310
300	700	330
350	700	330
400	800	330
450	900	330
500	1000	360

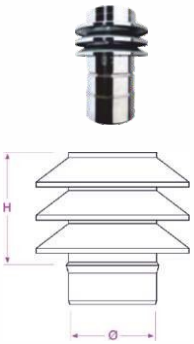
Wind Cap

Ø	A	H
60	180	130
80	180	130
100	230	130
130	265	150
150	265	170
180	320	200
200	320	200
250	400	270
300	500	270
350	720	340
400	720	340
450	850	370
500	850	370

Rain Cap

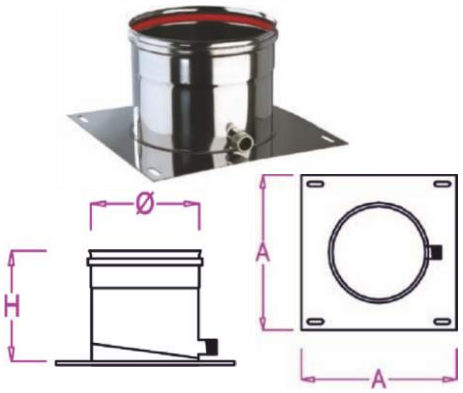
Ø	H
60-600mm	200mm

Cone Top



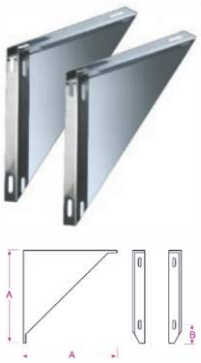
Ø	H
80-180mm	200mm
200-400mm	400mm

Aesthetic Cap



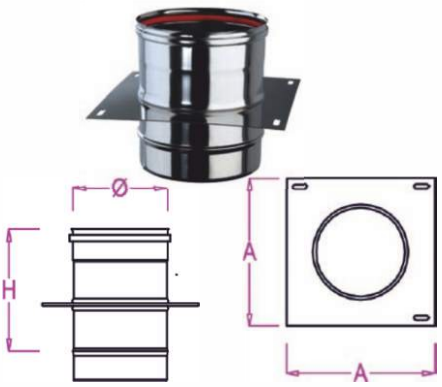
Ø	A	H
60	180	160
80	180	160
100	200	160
130	230	160
150	250	160
180	280	160
200	300	160
250	350	160
300	400	160
350	450	160
400	500	160
450	550	160
500	600	160

Base Support with Drain Plag



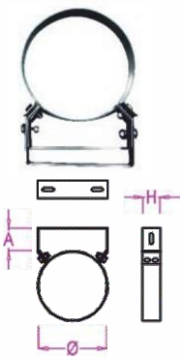
Ø	A	B
60	180	32
80	180	32
100	200	32
130	230	32
150	250	32
180	280	32
200	300	32
250	350	32
300	400	32
350	450	32
400	500	32
450	550	32
500	600	32

Carrier Console



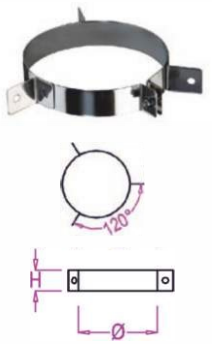
Ø	A	H
60	180	190
80	180	190
100	200	190
130	230	190
150	250	190
180	280	190
200	300	190
250	350	190
300	400	190
350	450	190
400	500	190
450	550	190
500	600	190

Wall Support



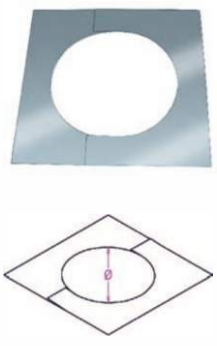
Ø	A	H
60	50	40
80	50	40
100	50	40
130	50	40
150	50	40
180	50	40
200	50	40
250	50	40
300	50	40
350	50	40
400	50	40
450	100	40
500	100	40

Wall Bracket



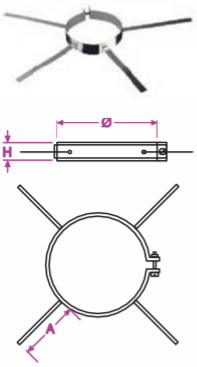
Ø	H
60	30
80	30
100	30
130	30
150	30
180	30
200	30
250	30
300	30
350	30
400	30
450	30
500	30

Guy Wire Bracket



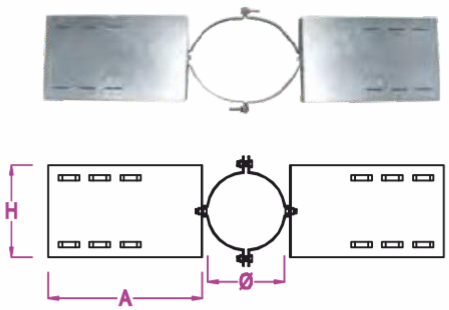
Ø
60
80
100
130
150
180
200
250
300
350
400
450
500

Wall Cover Ring



Ø	A	H
60		
80	300	40
100	300	40
130	300	40
150	300	40
180	300	40
200	300	40
250	300	40
300	300	40
350	300	40
400	300	40
450	300	40
500	300	40

Octopus Clamp



Ø	A	H
60	300	180
80	300	180
100	300	180
130	300	180
150	300	180
180	300	180
200	300	180
250	300	180
300	300	180
350	300	180
400	300	180
450	300	180
500	300	180

Roof Support

Ø
60
80
100
130
150
180
200
250
300
350
400
450
500

Increaser

Ø
60
80
100
130
150
180
200
250
300
350
400
450
500

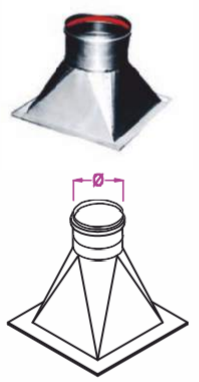
Decreaser

Ø
60
80
100
130
150
180
200
250
300
350
400
450
500

Eccentric İncreaser

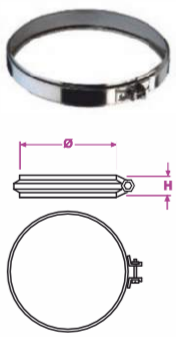
Ø
60
80
100
130
150
180
200
250
300
350
400
450
500

Eccentric Decreaser



Ø
60
80
100
130
150
180
200
250
300
350
400
450
500

Square to Round Reduction

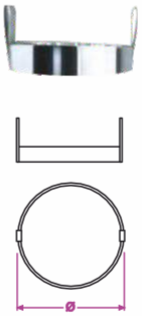


Ø	H
60	30
80	30
100	30
130	30
150	30
180	30
200	30
250	30
300	30
350	30
400	30
450	30
500	30

Locking band

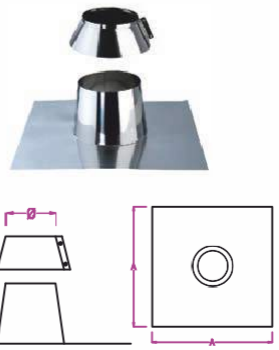
Ø	H
60	10
80	10
100	10
130	10
150	10
180	10
200	10
250	10
300	10
350	10
400	12
450	12
500	12

Joint Seal



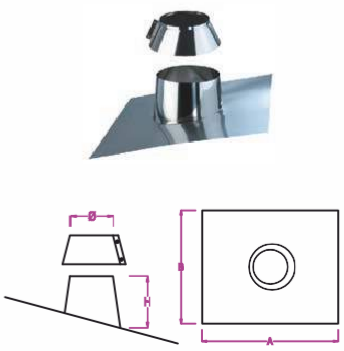
Ø
60
80
100
130
150
180
200
250
300
350
400
450
500

Split Ring



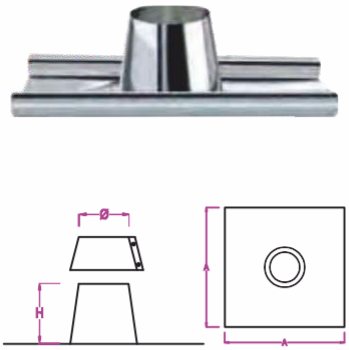
Ø	A	H
60	400	120
80	400	120
100	400	120
130	400	150
150	500	150
180	500	170
200	600	180
250	600	210
300	600	230
350	680	230
400	700	230
450	850	230
500	900	230

Stainless Steel Flat flashing + Collar



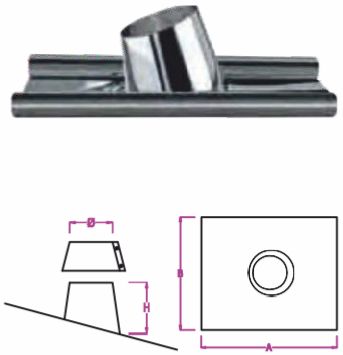
Ø	A	H
60	600	120
80	600	120
100	600	120
130	800	150
150	800	150
180	800	170
200	800	180
250	1000	210
300	1000	230
350	1000	230
400	1000	250
450	1200	250
500	1200	250

Stainless Steel Flashing 5-30°



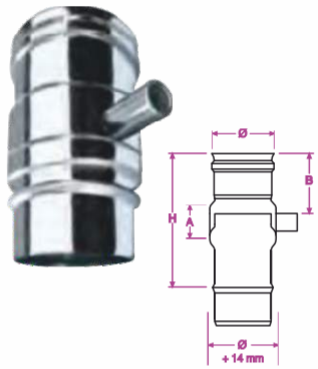
Ø	A	H
60	450	120
80	450	120
100	450	120
130	550	150
150	550	150
180	650	180
200	650	210
250	650	230
300	750	230
350	750	230
400	1000	230
450	1000	230
500	1000	230

Lead Substitute Malleable Lead Base Flat Flashing



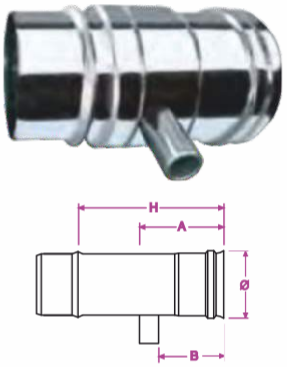
Ø	A	H
60	600	120
80	600	120
100	600	120
130	600	150
150	600	150
180	800	170
200	800	180
250	800	210
300	800	230
350	1000	230
400	1000	230
450	1000	230
500	1000	230

Lead Substitute Malleable Lead Base Flat Flashing 5-30°



Ø	A	H
60	55	143
80	55	143
100	55	143
130	55	143
150	55	143
180	55	143
200	55	143
250	55	143
300	55	143
350	55	143
400	55	143
450	55	143
500	55	143

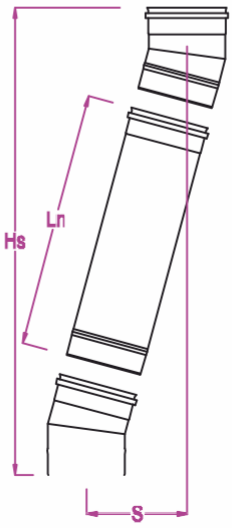
Drain Length Vertical



Ø	A	H
60	110	148
80	110	148
100	110	148
130	110	148
150	110	148
180	110	148
200	110	148
250	110	148
300	110	148
350	110	148
400	110	148
450	110	148
500	110	148

Drain Lenght Horizontal

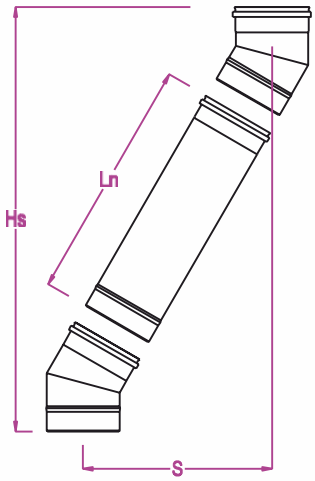
15° Center to Center Dimensioning



Ø	0 m = E		0,25 m		0,33 m		0,50 m		1 m	
	S	Hs	S	Hs	S	Hs	S	Hs	S	Hs
60	28	214	76	396	96	473	138	636	236	1116
80	28	214	76	396	96	473	138	636	236	1116
100	29	219	77	401	97	478	139	641	264	1121
130	30	227	78	409	98	486	140	649	265	1129
150	30	232	78	414	98	491	140	654	265	1134
180	32	240	80	422	100	499	142	662	267	1142
200	33	246	81	428	101	505	143	668	268	1148
250	34	258	82	440	102	517	144	680	269	1160
300	35	271	83	453	103	530	145	693	270	1173
350	37	284	85	466	105	543	147	706	272	1186
400	39	297	87	479	107	556	149	719	274	1199
450	41	309	89	491	109	568	151	731	276	1211
500	42	322	90	504	110	581	152	744	277	1224
550	44	335	92	517	112	594	154	757	279	1237
600	46	348	94	530	114	607	156	770	281	1250

Center Dimensioning for 15°

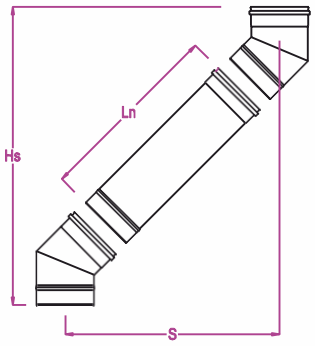
30° Center to Center Dimensioning



Ø	0 m = E		0,25 m		0,33 m		0,50 m		1 m	
	S	Hs	S	Hs	S	Hs	S	Hs	S	Hs
60	60	223	155	386	195	455	280	601	530	1031
80	60	223	155	386	195	455	280	601	530	1031
100	62	233	157	396	292	629	282	611	532	1041
130	67	248	162	411	297	644	287	626	537	1056
150	69	258	164	421	299	654	289	636	539	1066
180	73	273	168	436	303	669	293	651	543	1081
200	76	283	171	446	306	679	296	661	546	1091
250	82	308	177	471	312	704	302	686	552	1116
300	89	333	184	496	319	729	309	711	559	1141
350	96	358	191	521	326	754	316	736	566	1166
400	103	383	198	546	333	779	323	761	573	1191
450	109	408	204	571	339	804	329	786	579	1216
500	116	433	211	596	346	829	336	811	586	1241
550	123	459	218	622	353	855	343	837	593	1267
600	129	483	224	646	359	879	349	861	599	1291

Center Dimensioning for 30°

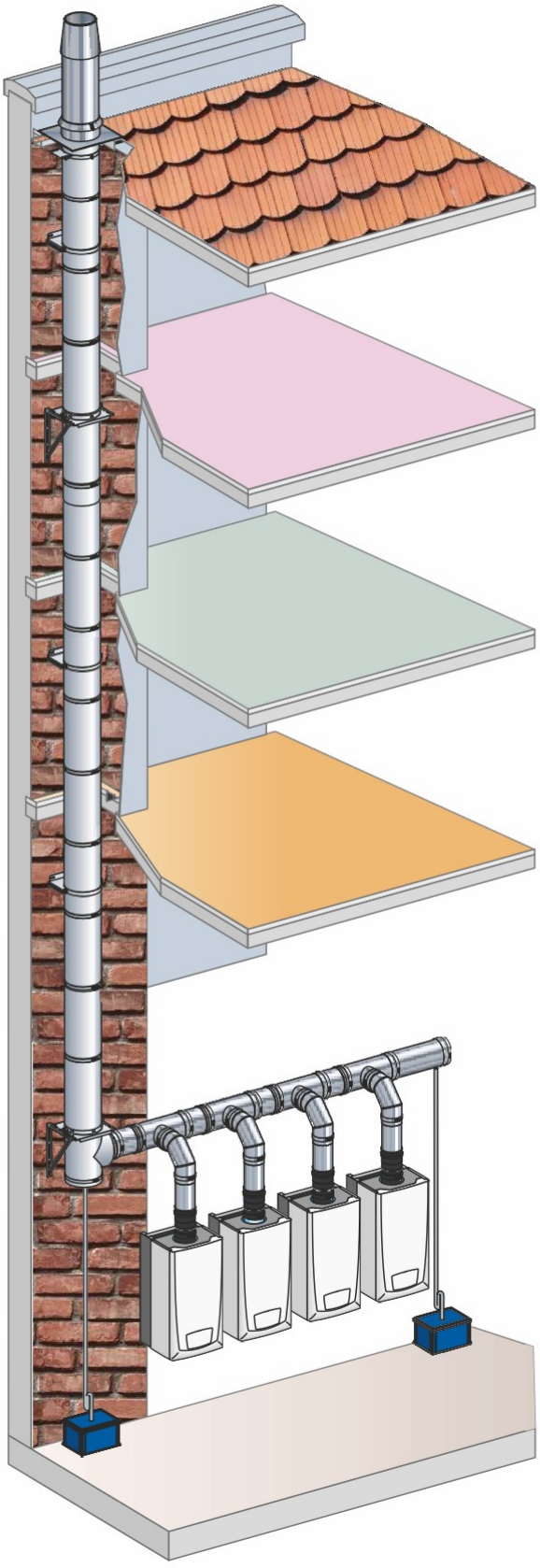
45° Center to Center Dimensioning



Ø	0 m = E		0,25 m		0,33 m		0,50 m		1 m	
	S	Hs	S	Hs	S	Hs	S	Hs	S	Hs
60	83	202	217	336	274	393	394	513	748	867
80	83	202	217	336	274	393	394	513	748	867
100	89	216	223	350	280	407	400	527	754	881
130	98	240	232	374	289	431	409	551	763	905
150	104	251	238	385	295	442	415	562	769	916
180	113	272	247	406	304	463	424	583	778	937
200	119	286	253	420	310	477	430	597	784	951
250	133	322	267	456	324	513	444	633	798	987
300	148	357	282	491	339	548	459	668	813	1022
350	161	389	295	523	352	580	472	700	826	1054
400	176	425	310	559	367	616	487	736	841	1090
450	190	460	324	594	381	651	501	771	855	1125
500	205	495	339	629	396	686	516	806	870	1160
550	220	531	354	665	411	722	531	842	885	1196
600	234	566	368	700	425	757	545	877	899	1231

Center Dimensioning for 45°

CASCADE CHIMNEY SYSTEMS



These are systems where more than one floor type or wall type condensing device is connected to a single flue. Regardless of its capacity, 9 devices can be connected to a single flue system. However, since the capacity of even a single device in floor-standing devices can be over 1000kW, this issue should be given special attention when designing the system.

According to TS EN 7363, chimney design can be made according to negative pressure in cascade systems. However, the products used must be certified for positive pressure. The flue system must have V2 class corrosion resistance.
In order to discharge the condensation water that will occur as a result of combustion, a 3% slope should be given from the devices to the vertical flue in the horizontal flue connection. Otherwise, the condensate water that cannot be discharged drips from the flue connections and causes damage to the devices and mechanical installations.

The use of neutralization unit is mandatory in systems with a total thermal power greater than 200kW.

WARNING

In floor type condensing devices, even if the device is condensing, if a blower burner is used, the device is considered a blown burner and cascade connection is not allowed.

Material

0,40mm -1,00mm 316L /1.4404 grade stainless steel

Advantage

Sealing, fast and easy assembly, suitable structure for condensate discharge, ease of traction and architectural design thanks to special chimney cap designs, wide product range, V2 corrosion resistance, P1 pressure class, operating temperature up to 200C

ADL-SW SINGLE WALL CHIMNEY SYSTEMS INSTALLATION INSTRUCTIONS

Before starting the chimney assembly, carefully read the instructions below.

Please ensure that the product description shown on the flue module and on the packaging is suitable for the flue assembly to be made.

The distance of the system to flammable materials (eg beams, wooden roofs or similar flammable materials) is considered during the planning and installation phase.

Before proceeding with any operation, disconnect the power supply.

To guarantee the reliability of the system, you always check the stability and leveling of the elements.

ADL - SW systems are made on a crush-resistant border centered with socket connections in female/male type, as shown in Picture 1. Placing the silicone gasket in the appropriate slot inside the outer mutf guarantees its gas tightness.

In positive pressure (P1) chimneys, a certified 3-jaw sealing gasket (black color) in accordance with EN 14241-1 norms is used.

Below are the basic instructions for a correct assembly.

make sure the products are intact and completely clean; It is forbidden to use components with damaged joints (for example, crushed and/or ovalized) components.

Make sure that the silicone gasket (if necessary, according to the pressure class) is fully seated in its seat and mounted with the tabs facing down.

Pass the chimney components in such a way that the male and female sockets fit each other perfectly. At this stage, care should be taken not to damage the gasket (if any) and it is recommended to lubricate the male end of the chimney with spray or soap before attaching it to the female.

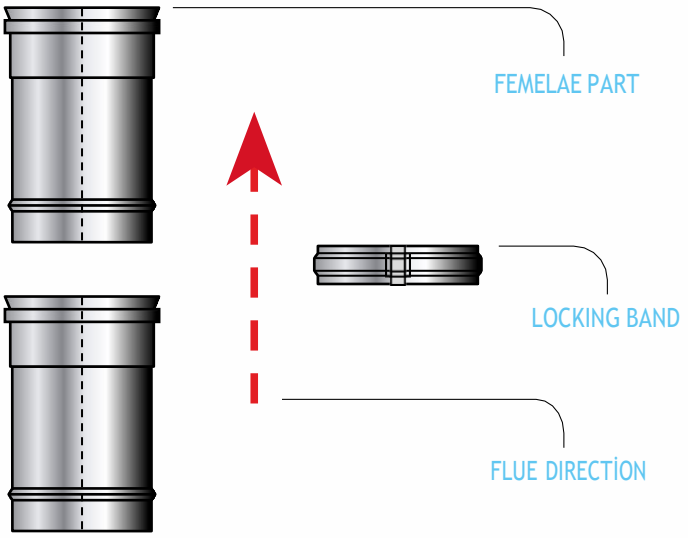


FIGURE 1

After the two parts are attached to each other, tighten the joint clamp mechanically and make sure that the screws are well locked. On both locking clamps there are 2 numbers indicating the outer diameter of the clamp. The correct mounting position of the clamp is the position where the larger of these two numbers is below.(fig.2)

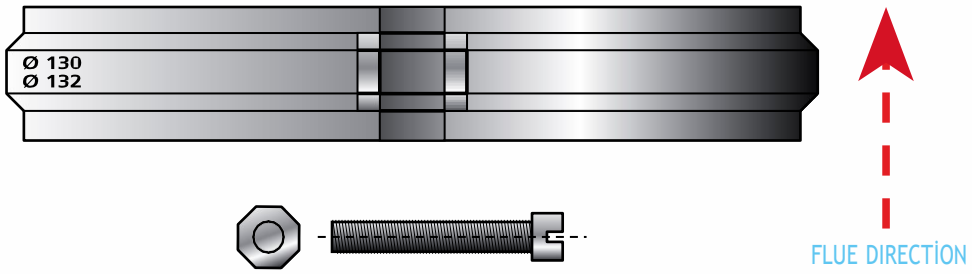


FIGURE 2

Example of 130 diameter Single-walled joint clamp

• Always use locking clamps to ensure stability and integrity of the entire system.

• Refer to the assembly diagrams and positioning criteria of the static elements shown on the following pages always obey them

• If the chimney is installed near flammable materials, observe the minimum distances specified in the product description.

The assembly of support arms, intermediate carrier or main carrier with drain plug should take place as follows:

• Intermediate carrier assembly; fix the support arms to the wall, creating a horizontal support surface between them; then fix the intermediate carrier plate by tightening the nuts to the respective bolts (fig. 3A and fig. 3B).

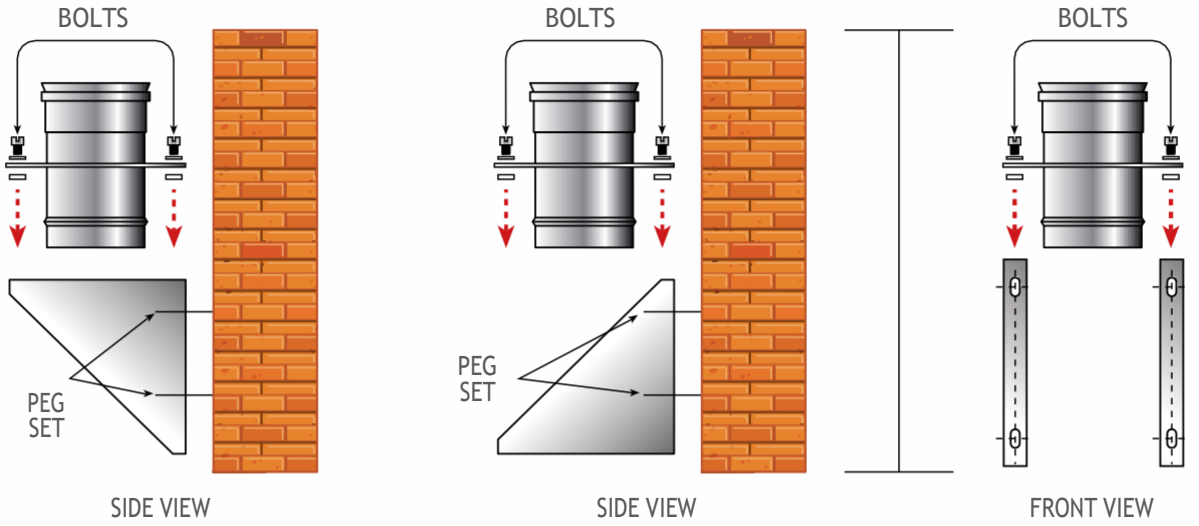


FIGURE 3A
Intermediate carrier and double carrier arm assembly

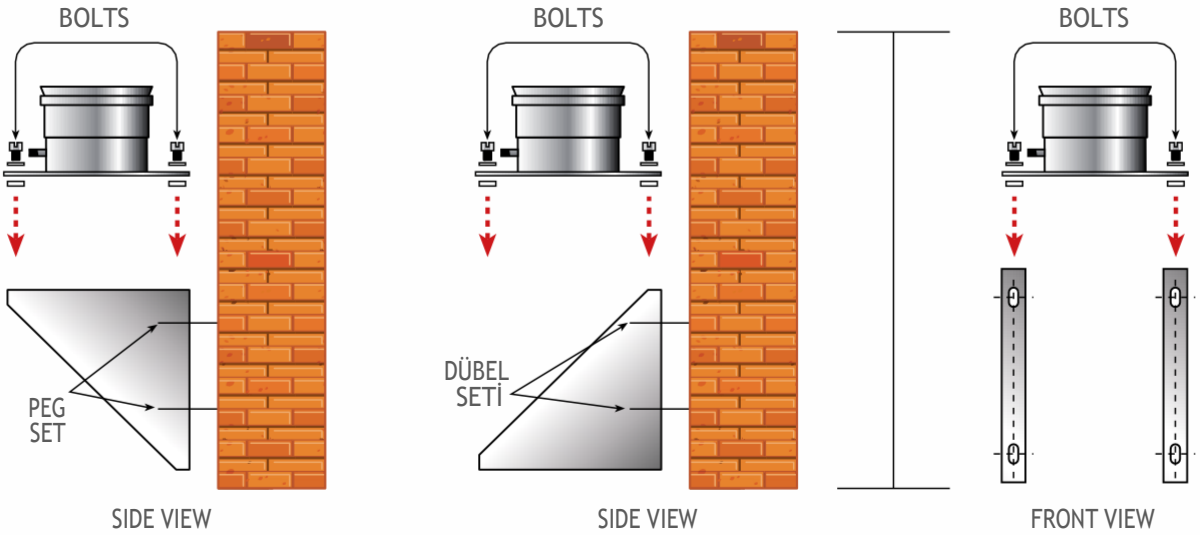


FIGURE 3B
Main carrier with drain plug and double carrier assembly

Flat or angled roof flashing assembly must be carried out according to the following instructions:

• On the last vertical component protruding from the roof or shaft, place the flat/angled piece on the roof from above;

• Wrap the vertical member and the roof outlet part with the chimney collar by tightening the screws and closing the openings with a light silicon film (Figs. 4A and Figs. 4B)

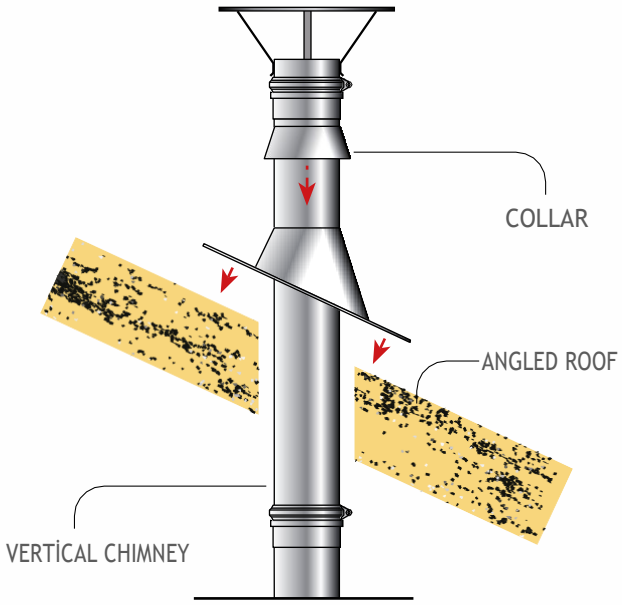


FIGURE 4A
Installation diagram of angled roof flashing and chimney collar

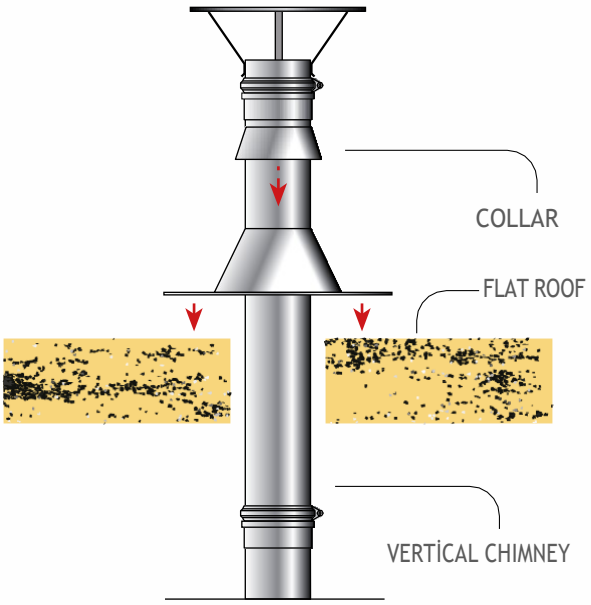


FIGURE 4B
Installation diagram of flat roof flashing and chimney collar

The assembly of the adjustable lenght should take place as follows:

• Remove the two components (AveB) as shown in Figure 5;

• Insert the supplied gasket into the groove (1) of the inner part as shown in fig. 6;

• Lubricate the gasket with the appropriate material for the male end (component A) and the female sleeve (component B) (as shown in figure 7).

• Engage the two elements, quickly adjusting the desired height, anticipating the lubricant to dry, as shown in Figure 8.

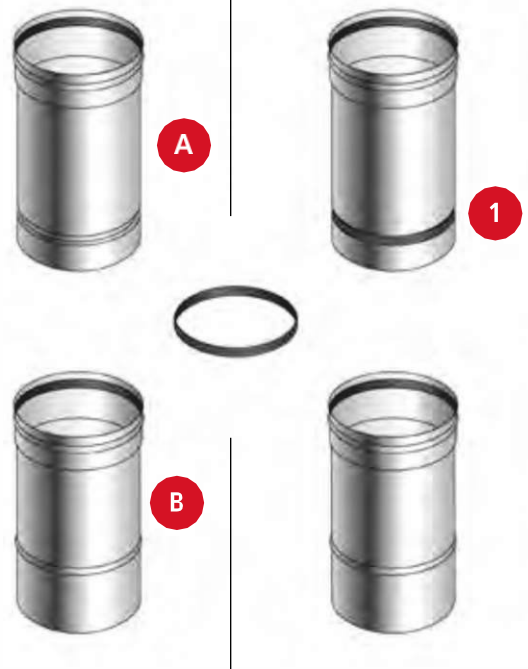


FIGURE 5

FIGURE 6

FIGURE 7

FIGURE 8

INSTALLATION DIAGRAM FOR SINGLE DEVICE CONNECTIONS (Fig. 9)

Below are the basic instructions for correct assembly.

• Place a prime mover with condensate collector or an intermediate carrier with condensate drain (if the application requires) at the bottom of the chimney.

• Place a base support with drain plug (if the application requires it) and an intermediate carrier at the base of the chimney.

• Check the stability and balance of the elements to ensure the straightness of the vertical chimney.

- Then it can be equipped with the following. continue with a clean watch cover:

- Positive pressure, condensing and/or sealed for exhaust ducts / chimneys operating at temperatures up to 200°C. round lid with gasket;

- Round lid with stainless steel seal for appliances operating at negative pressure and temperatures up to 600°C;

• Rectangular cover (ash catcher) internally lined with a ceramic fiber mat for ducts operating dry and under negative pressure at temperatures up to 600°C.

• Install the T 90° or T 45° module, which allows you to connect the smoke duct to the chimney; smoke channel minimum angle 3° should be installed with a slope.

• Position the lenght modules until the desired exit height is achieved

• If a lateral movement is necessary, it should be done in accordance with the rules.

• Axle shifting is possible only once in the vertical chimney with a maximum inclination not exceeding 45°.

• When the output height is reached, the output terminal, which is selected according to the application and the size made, is installed, taking into account the minimum heights stipulated by the regulations in force and the maximum console height specified under the Wind resistance heading in the DOP. n.

• If necessary, use a roof flashing according to the roof angle.

• Use guy wires if necessary.

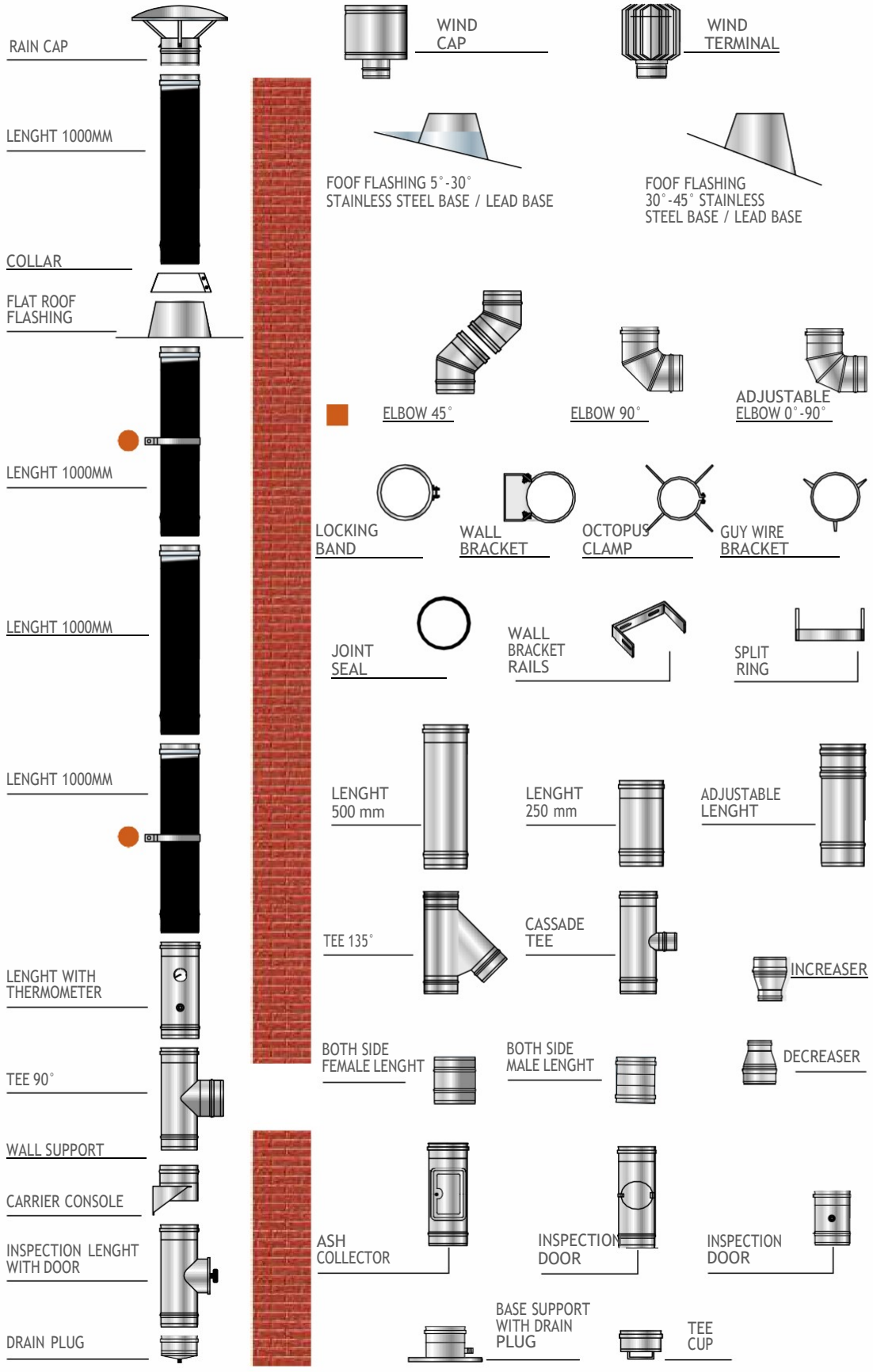
• Have the necessary checks and leak tests done and issue the system declaration of conformity.

• Attach the flue plate provided by ADELINOX near the flue and in a clearly visible place.

ADELINOX cannot be held responsible for damage to people, animals or property caused by incorrect installation.

FIGURA 9

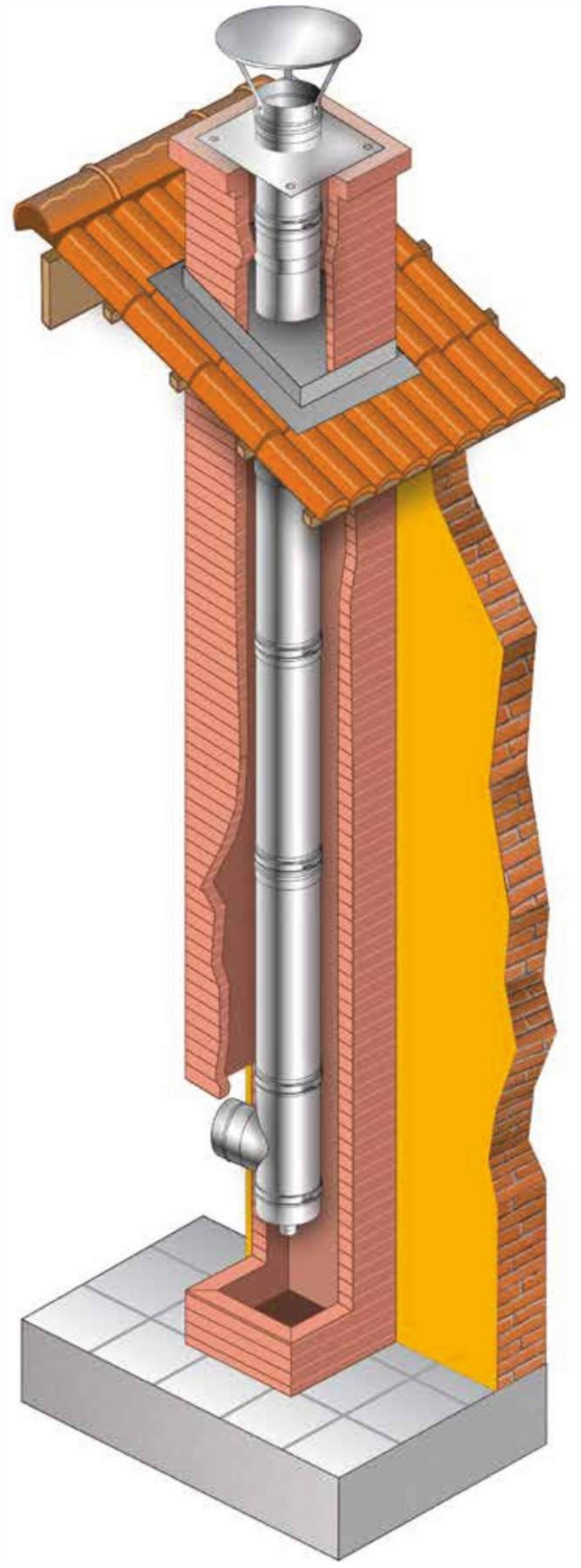
single wall chimney installation



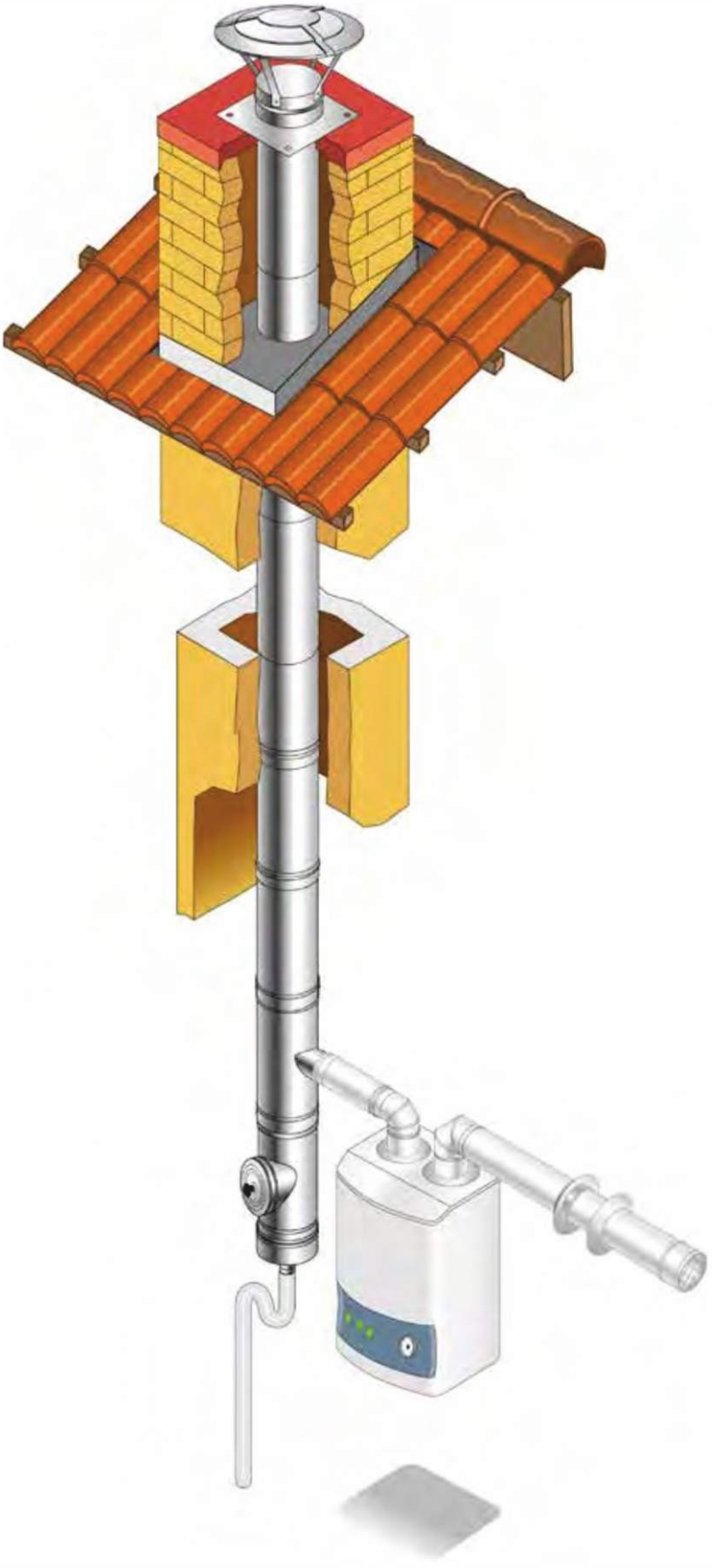
● MINIMUM ONE WALL BRACKET EVERY THIRD METER

■ AXLE SHIFTING IS POSSIBLE ONLY ONCE IN THE VERTICAL CHIMNEY WITH A MAXIMUM INCLINATION NOT EXCEEDING 45°.

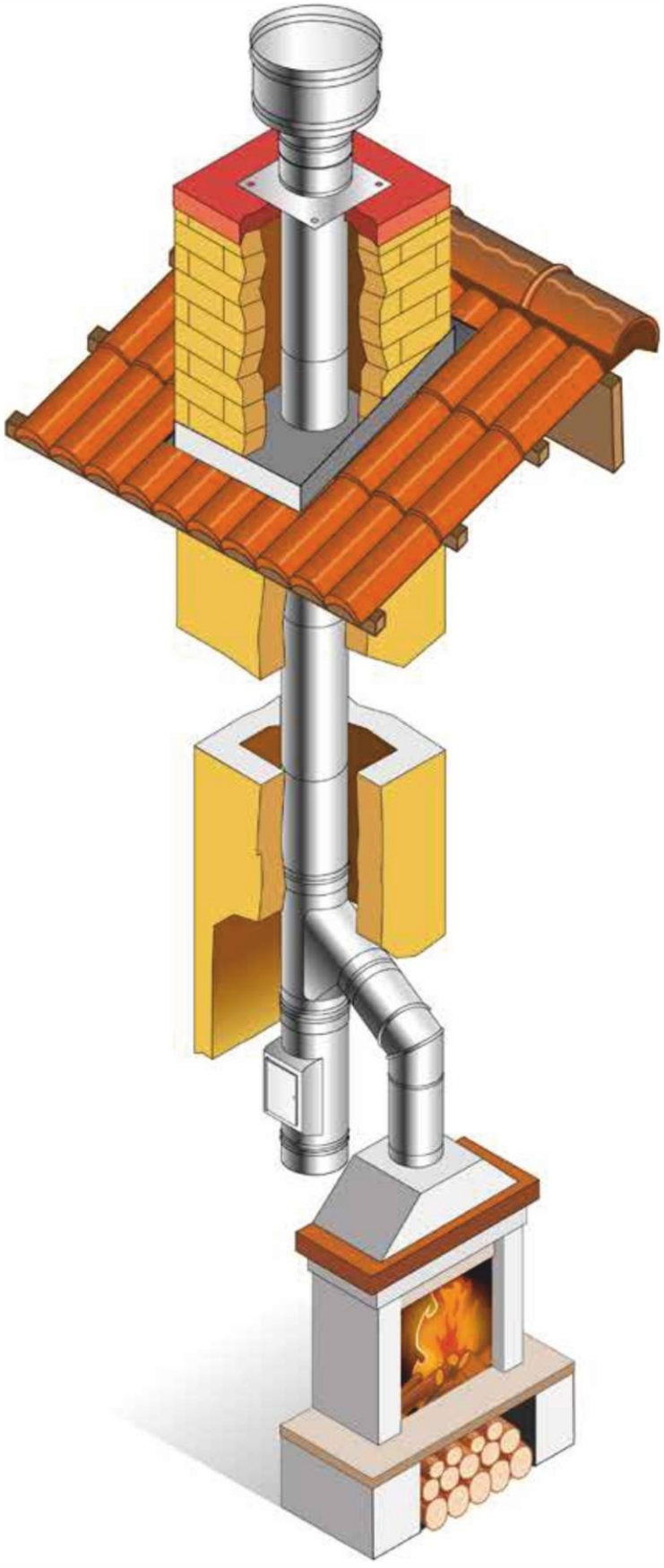
GENERAL VIEW OF THE SINGLE WALL CHIMNEY INSIDE SHAFT APPLICATION



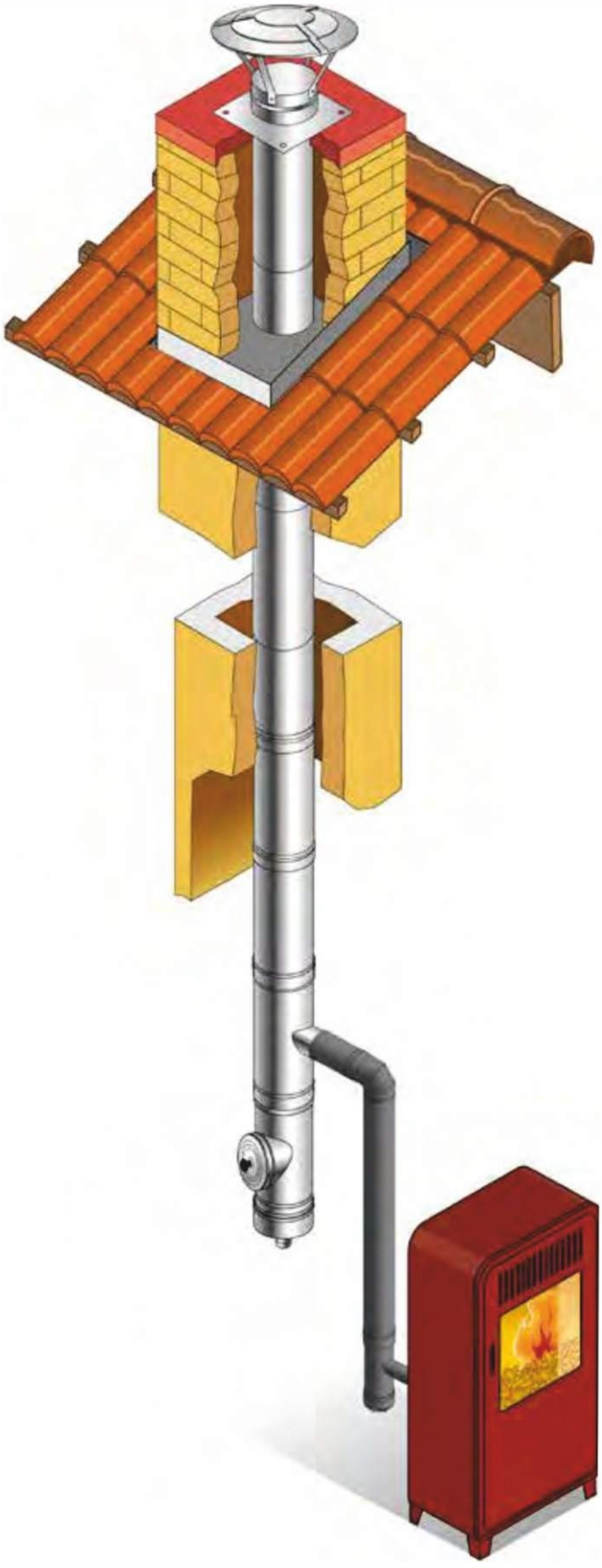
A TYPICAL APPLICATION OF WALL TYPE CONDENSING BOILER WITH SINGLE WALL CHIMNEY



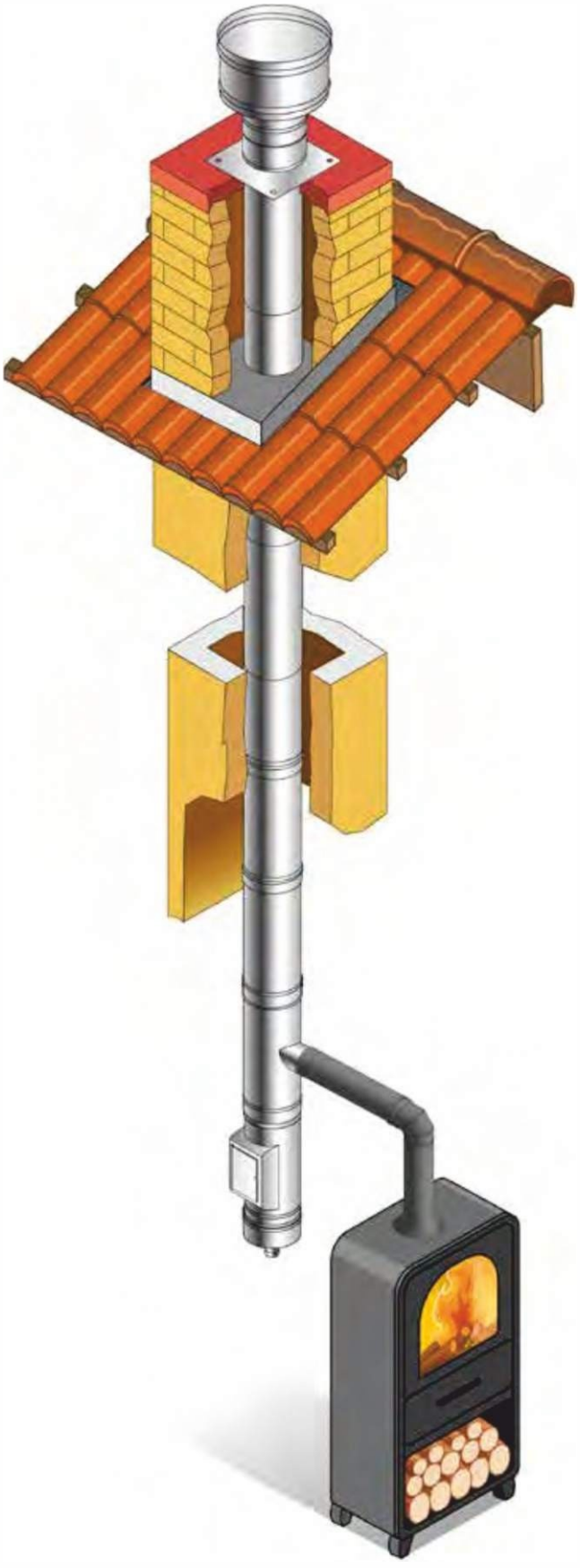
A TYPE APPLICATION OF SOLID FUEL FIREPLACE WITH SINGLE WALL CHIMNEY



A TYPICAL APPLICATION OF PELLET STOVE SYSTEM WITH SINGLE WALL CHIMNEY

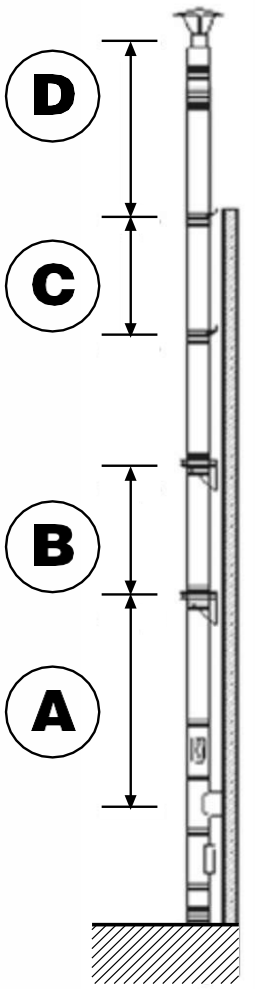


A TYPICAL APPLICATION OF A WOOD STOVE SYSTEM WITH A SINGLE WALL CHIMNEY



MANDATORY FEATURES

Compressive strength
Tensile strength
Cross wind resistence



RULES

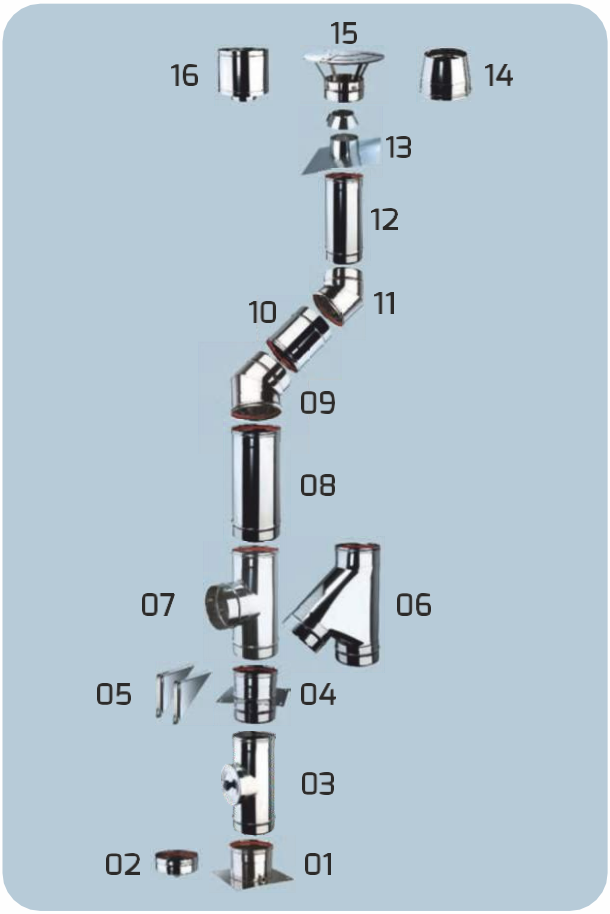
A: Maximum height that can be reached using a T 90 element with a base support
B: Max height supported by intermediate carrier with a double support
C: Maximum distance between two wall bracket
D: Reachable maximum height over the last wall bracket.

DIAMETER (mm)	Meter			
	A	B	C	D
80	164	79	4	1.5
97	142	69	4	1.5
100	140	68	4	1.5
110	127	61	4	1.5
120	116	56	4	1.5
125	110	54	4	1.5
130	107	52	4	1.5
140	100	48	4	1.5
150	93	36	4	1.5
155	88	34	4	1.5
160	97	33	4	1.5
180	86	30	4	1.5
200	77	27	4	1.5
220	70	24	4	1.5
230	63	20	4	1.5
250	62	21	4	1.5
300	60	15	3	1.5
350	46	31	1	1
400	41	27	1	1
450	36	24	1	1
500	33	21	1	1
550	19	20	1	1
600	18	18	1	1
650	16	16	1	1
700	15	15	1	1
750	14	14	1	1
800	13	13	1	1

HARMONIZED TECHNICAL STANDARD

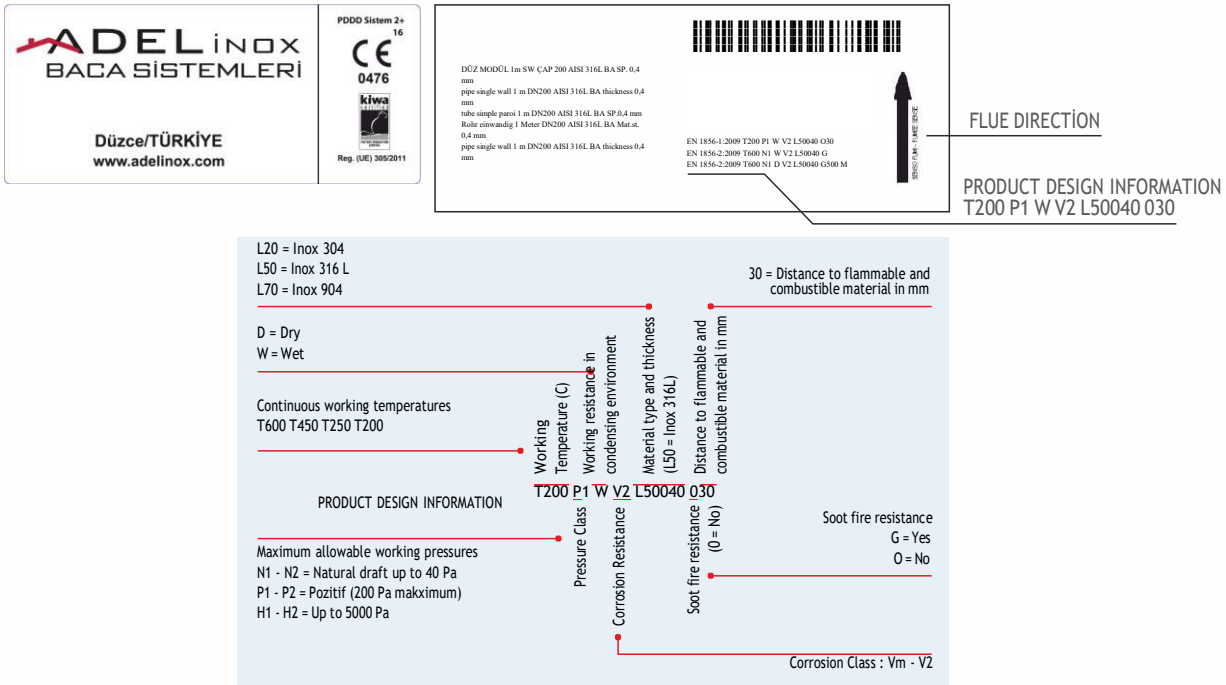
EN 1856-1:2009

INSTALLATION GUIDE



1	BASE SUPPORT WITH DRAIN PLUG
2	DRAIN PLUG
3	LENGHT WITH CLEANING DOOR
4	WALL SUPPORT MIDDLE CARIER
5	CARRIER CONSOLE
6	TEE 135
7	TEE 90
8	LENGHT 1000mm - 500mm - 250mm
9	ELBOW 15 -30 - 45
10	LENGHT 1000mm - 500mm - 250mm
11	ELBOW 15 -30 - 45
12	ELBOW 15 -30 - 45
13	ROOF FLASHING
14	CONE TOP
15	RAIN CAP
16	WIND CAP

PRODUCT LABEL SAMPLE



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