



DINAK DW

TWIN WALL MODULAR CHIMNEY



DW

0036 CPD 90220 001

Inner wall AISI 316L - 1.4404

Ø 80 - Ø 300

EN 1856-1 T600 N1 D V2 L50040 G60

EN 1856-1 T450 N1 D V2 L50040 G60

EN 1856-1 T200 P1 W V2 L50040 O00 with
joint
(for other Ø see p.1)

Inner wall AISI 304 - 1.4301

Ø 80 - Ø 300

EN 1856-1 T200 P1 W Vm L20040 O30

EN 1856-1 T200 P1 W Vm L20040 O00
(for other Ø see p.1)



NEW
GREEN Line

DINAK DW6

0036 CPD 90220 022

Inner wall: AISI 316L (1.4404) stainless steel

Ø 80 - Ø 300

EN 1856-1 T450 N1 D V3 L50060 G60

(for other Ø see p.1)

Inner wall steel thickness: 0.6 mm

HETAS approved

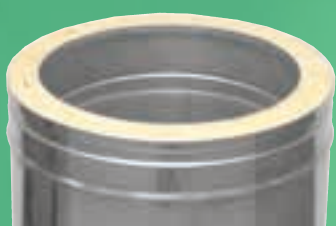


DINAK



ISO 9001: 2000





STAINLESS STEEL TWIN WALL INSULATED FLUE

DINAK DW

DINAK DW6



Inner wall AISI 316L - 1.4404

Ø 80 - Ø 300 EN 1856-1 T600 N1 D V2 L50040 G60
 Ø 350 - Ø 450 EN 1856-1 T600 N1 D V2 L50050 G90
 Ø 500 - Ø 600 EN 1856-1 T600 N1 D V2 L50050 G120
 Ø 80 - Ø 300 EN 1856-1 T450 N1 D V2 L50040 G60
 Ø 350 - Ø 450 EN 1856-1 T450 N1 D V2 L50050 G90
 Ø 500 - Ø 600 EN 1856-1 T450 N1 D V2 L50050 G120
 Ø 80 - Ø 300 EN 1856-1 T200 P1 W V2 L50040 O00 with joint
 Ø 350 - Ø 600 EN 1856-1 T200 P1 W V2 L50050 O00 with joint

Inner wall AISI 304 - 1.4301

Ø 80 - Ø 300 EN 1856-1 T600 N1 W Vm L20040 G60
 Ø 350 - Ø 450 EN 1856-1 T600 N1 W Vm L20050 G90
 Ø 500 - Ø 600 EN 1856-1 T600 N1 W Vm L20050 G120
 Ø 80 - Ø 300 EN 1856-1 T200 P1 W Vm L20040 O00
 Ø 350 - Ø 600 EN 1856-1 T200 P1 W Vm L20040 O00



Inner wall: AISI 316L (1.4404)

Ø 80 - Ø 300 EN 1856-1 T450 N1 D V3 L50060 G60
 Ø 350 - Ø 450 EN 1856-1 T450 N1 D V3 L50060 G90
 Ø 500 - Ø 600 EN 1856-1 T450 N1 D V3 L50060 G120
 Ø 80 - Ø 600 EN 1856-1 T200 P1 W V2 L50060 O00
 with joint



MATERIALS

- Inner wall:
AISI 316L (1.4404) or AISI 304 (1.4301)
- Outer wall:
AISI 304 (1.4301) or AISI 316L (1.4404)
(Aluminized steel, Copper, Painted (R.A.L. range)) On request
- Insulation:
Rockwool 30 mm
- Fuel:
Gas, Diesel, Wood, Biofuel and Pellets

APPLICATIONS

- Domestic heating and hot water systems
- Industrial / commercial heating
- Bakery ovens
- Open fire places
- Hot air generators
- Ventilation and smoke extraction
- Biomass boilers and solid fuels

MAIN FEATURES

- Designed for condensing (with joint) and dry (without joint) applications
- Thermal expansion absorbed in each element. no requirement for "expansion bellows"
- No thermal bridge, insulation continuity throughout the system
- High mechanical resistance to vertical and horizontal forces
- Overlap: 40 mm
- Diameters available from 80 mm to 1000 mm.

WORKING TEMPERATURE

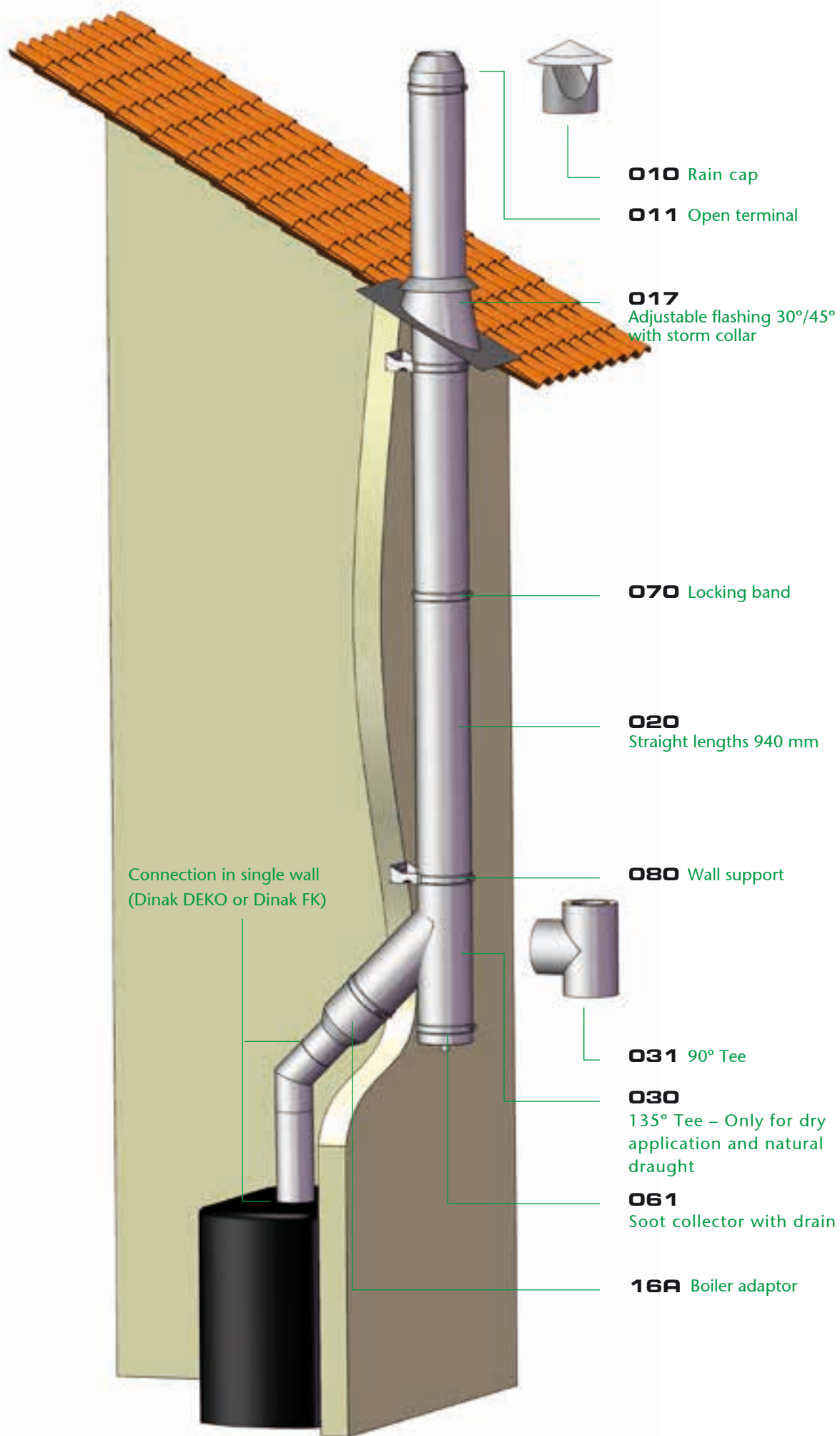
- 600° under continuous operation
For higher temperatures, contact DINAK

OVERPRESSURE

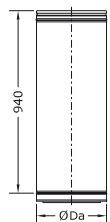
- 200 Pa (with joint)
- 40 Pa (on negative pressure)

INNER - OUTER DIAMETERS, THICKNESSES AND WEIGHT

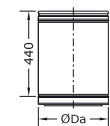
Inside Ø (mm)	80	100	130	150	160	180	200	250	300	350	400	450	500	560	600
Outside Ø (mm)	140	160	190	210	220	240	260	310	360	410	460	510	560	620	660
Weight for a 940 mm element (kg)															
DW	3,6	4,3	5,2	5,8	6,1	6,7	7,3	8,8	10,4	13,0	14,6	16,3	18,0	19,6	21,3
DW06	4,1	4,8	5,8	6,6	6,9	7,6	8,4	10,1	11,9	14,8	16,7	18,6	20,5	22,5	24,4
Insulation (mm)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Inner wall thickness (mm)															
DW	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
DW06	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
Outer wall thickness (mm)	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,5	0,5	0,5	0,5	0,5	0,5



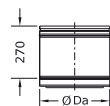
STRAIGHT LENGTHS



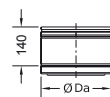
020
Straight length
940 mm



024
Straight length
440 mm



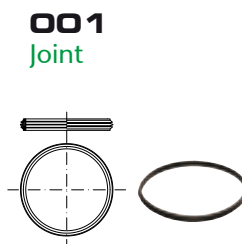
025
Straight length
270 mm



255
Extra short straight
length 140 mm



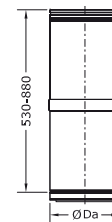
070
Locking band



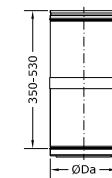
001
Joint

ADJUSTABLE LENGTHS

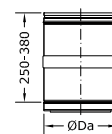
022
Adjustable length
530-880 mm



023
Adjustable length
350-530 mm



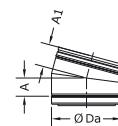
235
Extra short
adjustable length
250-380 mm



ELBOWS

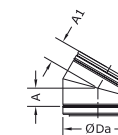
044 15° Elbow

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	70	71	73	75	76	78	79	81	84	75	78	82	85	88	91
A1 mm	110	111	113	115	116	118	119	121	124	115	118	122	125	128	131



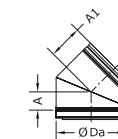
042 30° Elbow

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	75	78	81	85	86	89	91	98	105	103	110	116	123	130	136
A1 mm	115	118	121	125	126	129	131	138	145	143	150	156	163	170	176



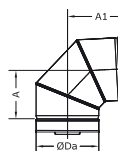
040 45° Elbow

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	81	85	90	96	98	102	106	116	126	133	143	154	164	174	185
A1 mm	121	125	130	136	138	142	146	156	166	173	183	194	204	214	225



043 87° Elbow

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
043 A mm	163	173	188	198	203	213	223	248	273	293	318	343	368	393	418
043 A1 mm	192	202	216	226	230	240	249	273	297	316	340	364	388	411	435
433 A mm	157	167	182	192	197	207	217	242	267	288	313	338	363	388	413
433 A1 mm	197	207	222	232	237	247	257	282	307	328	353	378	403	428	453

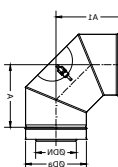


433 90° Elbow

431 87° Inspection Elbow

432 90° Inspection Elbow

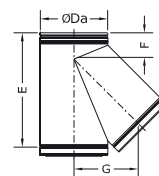
Ø mm	80	100	130	150	160	180	200	250	300	350	400
ØDa mm	140	160	190	210	220	240	260	310	360	410	460
431 A mm	185	195	218	228	233	243	264	289	307	303	328
431 A1 mm	215	225	245	254	259	269	288	312	329	325	349
432 A mm	170	180	212	222	227	237	257	282	300	297	322
432 A1 mm	215	225	252	262	267	277	297	322	340	337	362



TEE

030 135° Tee – Only for dry application and natural draught

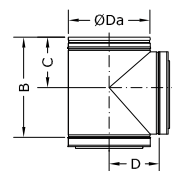
Ø mm	80	100	130	150	160	180	200	250	300	350	400
ØDa mm	140	160	190	210	220	240	260	310	360	410	460
E mm	440	440	440	440	610	610	610	610	690	940	940
F mm	172	162	146	125	132	258	234	143	212	185	195
G mm	176	193	225	236	245	268	281	323	370	421	463



031 90° Tee

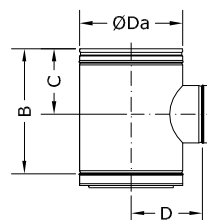
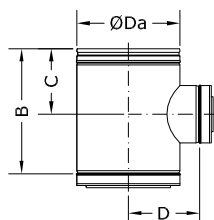
31A 93° Tee

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
B mm	270	270	270	440	440	440	440	440	610	610	610	940	940	940	940
C mm	156,5	156,5	156,5	240	240	240	240	240	325	325	325	490	490	490	490
D mm	130	140	155	165	170	180	190	215	240	265	290	315	340	365	390



312 90° Tee with reduced branch

31B 93° Tee with reduced branch



Tee Ø

Reduced branch Ø	Ø mm	100/160	130/190	150/210	160/240	180/240	200/260	250/310	300/360	350/410	400/460	450/510	500/560	550/610	600/660	B (mm)	C (mm)
	80/140	X	X	X	X	X	X	X	X	X	X	X	X	X	X	270	150
	100/160		X	X	X	X	X	X	X	X	X	X				270	150
	130/190					X	X	X	X	X						270	150
	150/210					X	X	X	X	X	X	X	X	X	X	440	230
	180/240							X	X	X	X	X	X	X	X	440	230
	200/260								X	X	X	X	X	X	X	440	230
	250/310									X	X	X	X	X	X	440	230
	D	140	155	165	170	180	190	215	240	265	290	315	340	365	390		

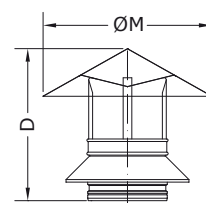
X = Available branch diameters

Body length of tee corresponds to the reduced diameter of standard tee length

TERMINALS

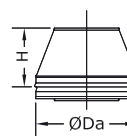
010 Rain cap

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450
ØM mm	195	215	290	300	310	330	375	430	540	590	640	740
D mm	240	245	290	290	295	300	325	340	405	420	435	500



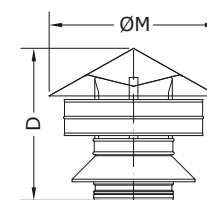
011 Open Terminal

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
H mm	115	115	115	115	115	115	115	115	115	280	280	280	280	280	280



012 Weathering Cap

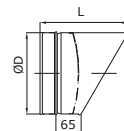
Ø mm	80	100	130	150	160	180	200	250	300	350	400	450
ØM mm	195	215	290	300	310	330	375	430	540	590	640	740
D mm	240	245	290	290	295	300	325	340	405	420	435	500



TERMINALS

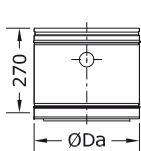
015 Horizontal terminal

Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
L mm	185	200	215	225	245	255	285	315	350	380	410	440	470	500

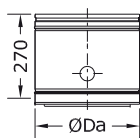


INSPECTION AND CLEANING

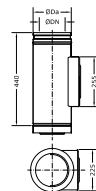
050 Test unit



055 Straight length with drain 270 mm

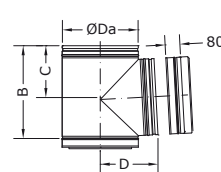


052 Inspection length 440mm Only for dry application and natural draught

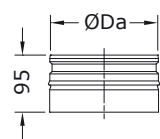


523 Inspection tee (for condensing applications)

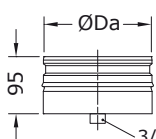
Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
B mm	270	270	270	440	440	440	440	440	610	610	610	940	940	940	940
C mm	156,5	156,5	156,5	240	240	240	240	240	325	325	325	490	490	490	490
D mm	170	180	195	205	210	220	230	255	290	305	330	355	380	405	430



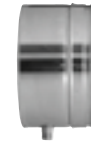
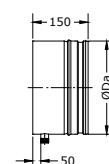
060 Insulated soot collector



061 Insulated soot collector with drain

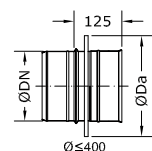


613 Insulated soot collector with side drain

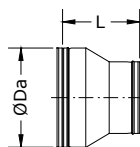


CONNECTIONS

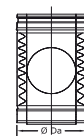
105 FK/DW adaptor



026 Reduction

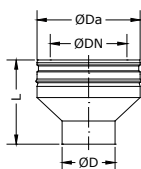


120 Draught regulator



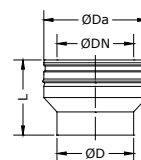
A17 Increasing boiler adaptor

Ø mm	150	180	200
Da mm	210	240	260
L mm	165	165	165
ØD	123	147	177



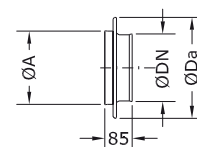
A16 Boiler adaptor

Ø mm	130	150	180	200
Da mm	190	210	240	260
L mm	140	140	140	140
ØD	127	147	177	197



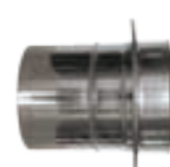
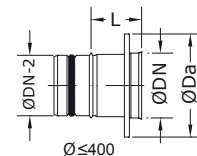
100 Boiler adaptor

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	82	102	132	152	162	182	202	252	302	352	402	452	502	552	602



1C0 Boiler adaptor condensing

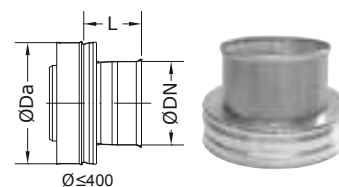
Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	78	98	128	148	158	178	198	248	298	348	398	448	498	548	598
L mm	115	115	115	100	100	100	100	100	100	100	100	130	130	130	130



CONNECTIONS

106 DW/FK adapter

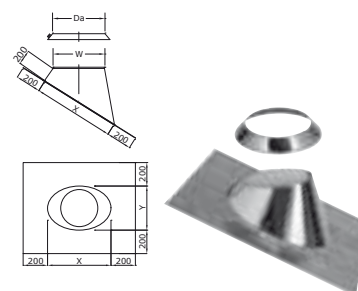
Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
L mm	145	145	145	145	145	145	145	145	145	145	145	280	280	280	280



PROTECTIONS

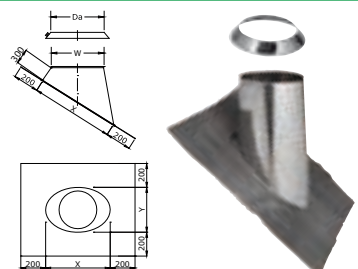
017 Adjustable flashing 30°/45° with storm collar

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
W mm	175	190	210	230	260	260	280	340	390	440	490	540	590	640	690
Y mm	298	319	347	388	416	416	444	528	597	666	737	806	875	945	1014
X mm	363	384	412	453	481	481	509	593	662	731	802	871	940	1010	1079



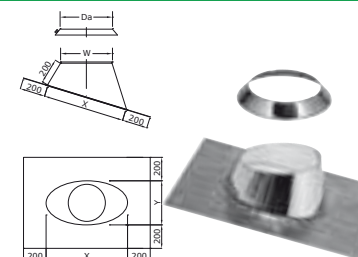
17A Adjustable flashing 30°/45° with storm collar

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
W mm	183	197	220	240	270	270	290	340	390	440	490	540	590	640	690
Y mm	310	330	407	432	476	476	504	574	641	710	778	847	916	985	1053
X mm	405	425	472	500	541	541	569	639	706	775	843	912	981	1050	1118



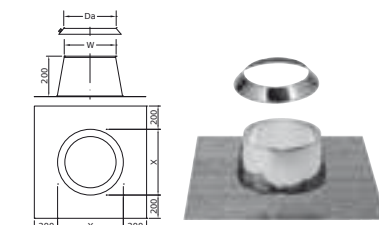
018 Adjustable flashing 5°/30° with storm collar

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
W mm	175	190	215	235	265	265	285	340	390	445	495	545	595	645	695
Y mm	268	284	313	329	363	363	385	453	509	565	621	677	734	790	846
X mm	333	319	378	394	428	428	450	518	574	630	686	742	799	855	911



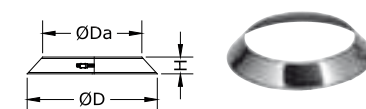
019 Flat flashing with storm collar

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
W mm	170	190	210	230	260	260	280	340	390	430	480	530	580	630	680
X mm	240	260	280	300	330	330	350	410	460	500	550	600	650	700	750

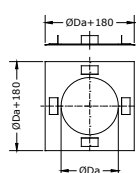


13A Storm collar

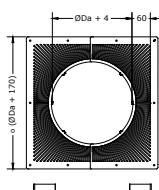
Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
H mm	80	90	90	90	100	100	100	110	120	140	150	160	170	180	190
ØD mm	235	258	295	298	360	355	372	426	490	575	635	690	750	805	870



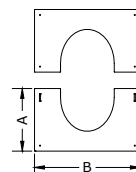
064 Firestop plate



641 Ventilated firestop plate

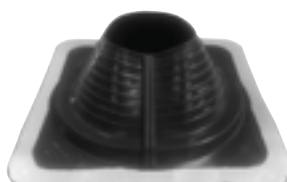


132 Finishing plate 30°-45° 133 Finishing plate 0°-30°



EPDM Flashing

ADC4:	Ø75-150
ADC5:	Ø125-200
ADC6:	Ø145-250
ADC7:	Ø195-300
ADC8:	Ø230-380
ADC9:	Ø315-500



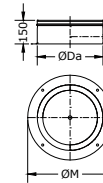
FIXING KIT

AFK-S
AFK-L

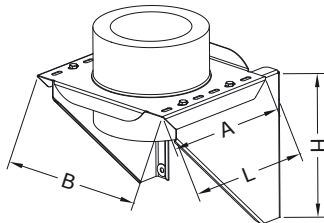
SUPPORTS

065 Base plate with drain

Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
ØM	235	255	285	305	335	355	405	455	520	570	620	670	720	770

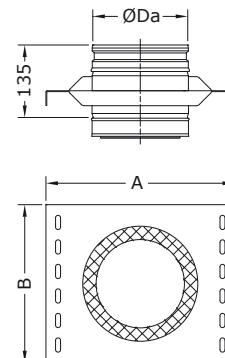


853 Adjustable base support + brackets



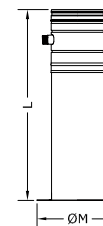
Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
ØDa mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	200	220	250	267	282	297	317	366	416	466	516	564	614	664	714
B mm	248	268	298	318	333	348	368	418	468	518	568	618	668	718	768
L mm	200	220	250	267	282	297	317	366	416	466	516	564	614	664	714
H mm	210	230	260	277	292	307	327	376	426	476	526	589	639	689	739

854 Console plate



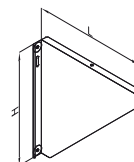
856 Adjustable floor support

Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
Da mm	140	160	190	210	240	260	310	360	425	475	525	575	625	675
L mm	220-1200													
M mm	235	255	285	305	335	355	405	455	520	570	620	670	720	770



857 Side brackets

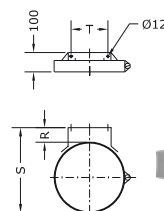
Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
Da mm	140	160	190	210	240	260	310	360	425	475	525	575	625	675
L mm	227	250	263	275	310	345	360	415	490	550	580	625	685	735
H mm	227	260	273	285	320	355	370	425	500	560	590	650	710	770



LOCKING BANDS

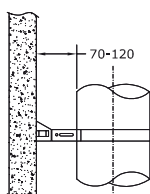
080 Wall support

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
R mm	30	30	35	40	40	40	45	25	30	40	45	25	30	40	40
T mm	60	60	120	120	120	120	120	190	190	190	190	270	270	270	270
S mm	175	195	225	250	260	285	305	335	390	450	505	540	595	650	700



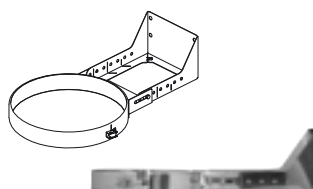
083

Adjustable wall support 70-120 mm
(for Ø from 80 mm to 300 mm)



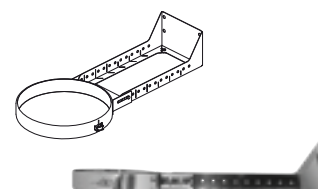
835

Cuttable short wall support
100-250 mm



845

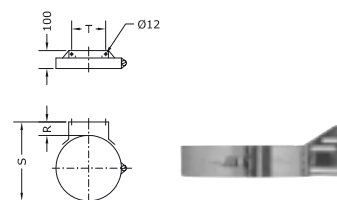
Cuttable long wall support
250-430 mm



LOCKING BANDS

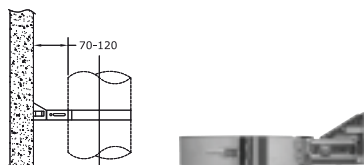
086 Flat wall support

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
R mm	30	30	35	40	40	40	45	25	30	40	45	25	30	40	40
T mm	60	60	120	120	120	120	120	190	190	190	190	270	270	270	270
S mm	175	195	225	250	260	285	305	335	390	450	505	540	595	650	700



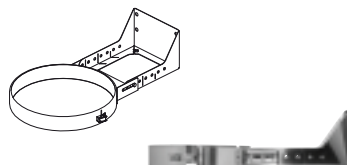
831

Flat adjustable wall support 70-120 mm (for Ø from 80 mm to 300 mm)



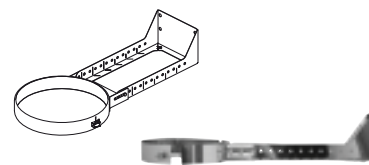
836

Flat cuttable short wall support 100-250 mm

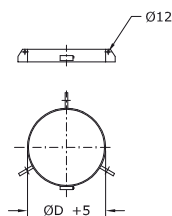


846

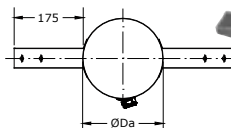
Flat cuttable long wall support 250-430 mm



110 Guy wire bracket



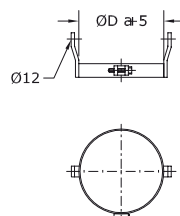
903 Roof support



071 Location bracket



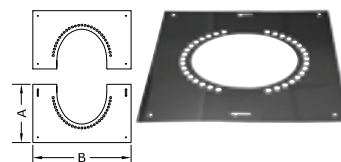
074 Descending kit



FINISHING PLATES

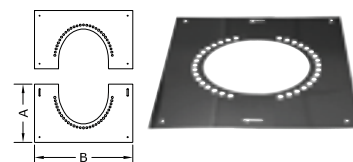
137 Finishing plate 0 - 30°

Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
Da mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	192	205	225	240	246	258	271	305	333	372	405	438	471	503	536
B mm	380	400	430	450	460	480	500	550	600	650	700	750	800	850	900



136 Finishing plate 30 - 45°

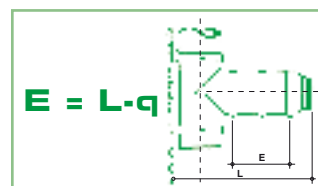
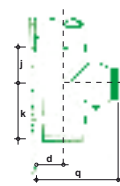
Ø mm	80	100	130	150	160	180	200	250	300	350	400	450	500	550	600
Da mm	140	160	190	210	220	240	260	310	360	410	460	510	560	610	660
A mm	225	241	265	278	285	302	317	358	399	453	496	538	580	621	663
B mm	382	402	432	452	462	482	500	550	600	649	699	749	801	851	901



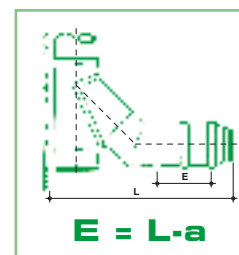
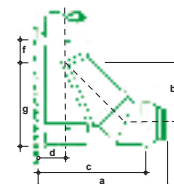
TEES AND ELBOWS

E= Adjustable length - L= Total flue length required

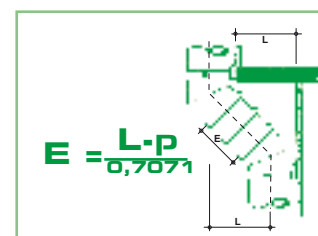
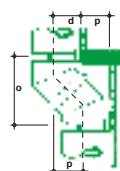
Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
d mm	100	110	125	140	175	175	180	210	245	275	280	310	345	370
j mm	150	150	150	230	230	230	230	315	325	325	490	490	490	490
k mm	225	225	225	315	315	315	315	400	385	385	550	550	550	550
q mm	300	320	350	375	410	435	465	520	372,5	397,5	545,5	570,5	595,5	620,5



Ø mm	80	100	130	150	180	200	250	300	350	400
a mm	545	575	610	656	705	753	815	938	1024	1112
b mm	275	290	305	331	355	383	430	488	547	594
c mm	445	475	510	556	605	653	715	838	924	1012
d mm	100	110	125	140	160	175	180	210	245	275
f mm	115	115	115	110	110	195	145	185	268	211
g mm	405	405	430	435	435	520	570	610	772	829



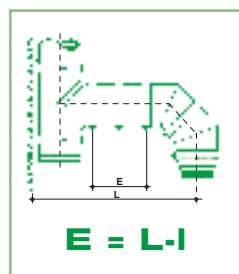
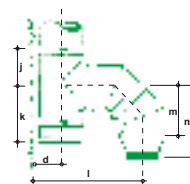
Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
d mm	100	110	125	140	160	175	180	210	245	275	280	310	345	370
o mm	384	401	358	376	393	410	444	546	522	557	594	628	662	700
p mm	159	166	148	156	163	170	184	226	214	231	246	260	275	290



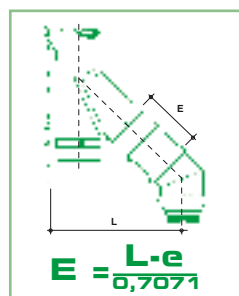
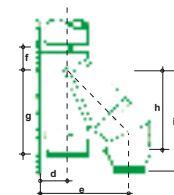
TEES, ELBOWS AND ADJUSTABLE LENGTHS

E= Adjustable length - L= Total flue length required

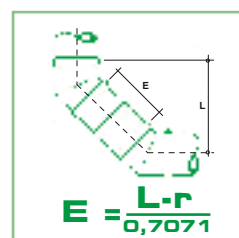
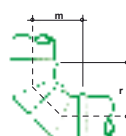
Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
d mm	100	110	125	140	160	175	180	210	245	275	280	310	345	370
j mm	150	150	150	230	230	230	230	315	325	325	490	490	490	490
k mm	225	225	225	315	315	315	315	400	385	385	550	550	550	550
l mm	494	526	528	566	613	650	704	826	906,5	986,5	1017,5	1121,5	1205,5	1282,5
m mm	249	261	228	241	253	265	289	366	347	374	400	424	449	475
n mm	349	361	328	341	353	365	389	466	457	474	500	524	549	575



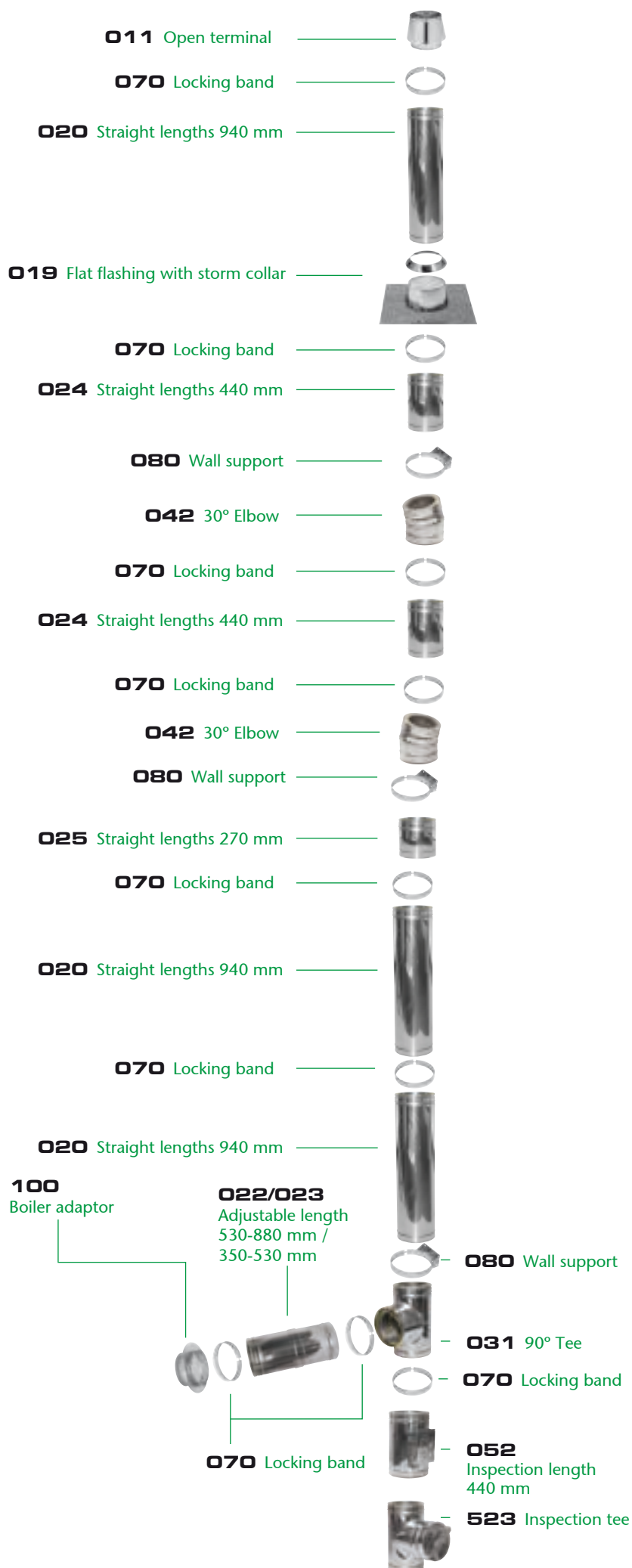
Ø mm	80	100	130	150	180	200	250	300	350	400
d mm	100	110	125	140	160	175	180	210	245	275
e mm	375	400	430	471	515	558	610	698	791	868
f mm	115	115	115	110	110	195	145	185	268	211
g mm	405	405	430	435	435	520	570	610	772	829
h mm	345	365	385	416	445	478	535	628	680	736
i mm	445	465	485	516	545	578	635	728	780	836



Ø mm	80	100	130	150	180	200	250	300	350	400	450	500	550	600
m mm	249	261	228	241	253	265	289	366	347	374	400	424	449	475
r mm	294	306	278	291	303	315	315	406	389	414	440	464	488	515



ASSEMBLY





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