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ADW (Advanced Double Wall)

The double-wall stainless steel system, which crosses heat



The value of security

The quality of a chimney is of vital importance, not only for its service life, but also mainly for the correct and safe operation of the heating unit

In recent years, the scenario for those, who have to build and install a chimney has undergone radical changes, due to new regulations; the necessity for the use of **safe** chimney systems with **quality certification** was emphasised. Today, there are only two materials, which are able to guarantee faultless functioning and

safety or the end user: Austenite high-grade steel and certified fire-brick. Because the high-grade steel chimneys as well as those built from fire-brick distinguish themselves by

their high grade impermeability, an outstanding resistance against acid condensation water, an excellent imperviousness against fumes, temperature changes and high temperatures. In this respect, however, it has to be considered that the two materials are not alternatives for each other, but complement one another. It is exactly their different composition, which characterises and distinguishes them. Chimneys made from fire-brick, which are constructed with natural materials develop after their installation (with the appropriate sealant) one single monolithic feature, which is suitable for any kind of burning materials and units and distinguishes itself by a long durability. The use of highgrade steel products is especially suitable for the renovation or modification of existing chimneys. They can be easily and quickly installed, the components are manageable and if they are made out of the best steel and in additiona to that with the best possible welding and surface processing proce**unassailable**. Therefore, the decision whether to build a flue from fire-brick or from high-grade steel depends on the advantages resulting from the features of the unit and the gradient. In any case, it is important that the chimney is manufactured and certified by a **specialised firm**, which can guarantee the support during

Chimneys made from stainless steel are available in a broad variety of colours, however, they are not only "adjustable" to any burning material and unit, but also to any guiding of the flue gasses and building structure. the design phase and at the construction site; so, the use of a good material is crucial, but not sufficient: The **design** of the flue and the **construction** of the gradient are the crucial variables to

build a chimney in accordance with the regulations from the components.

dures, they are permanently

Effective Control of the Thermal Bridges

Due to an exclusive head rim, the progressive double-wall stainless steel system ADW eliminates thermal bridges and at the same time, guarantees an optimal static stiffness of the flue.

Thermal Bridges: Unwanted Effects

Connection joints are usually the weak spots of heat insulated stainless steel flues. If the insulation layer guarantees the temperature difference between internal wall, which is exposed to the flue gasses and the external wall, which is exposed to the air outside, so especially at the joints between the two walls, there is a tendency for an equalisation of this temperature difference (the so-called thermal bridge phenomenon).

> The modern manufacturers are challenged to achieve an efficient release of the flue gasses and to prevent the formation of condensation water, by reducing the thermal bridges to negligible values.

The Technological Solution

In the stainless steel system ADW (Advanced Double Wall - Progressive Double-wall System) Schiedeltechnology solves the problem of the thermal bridges with a special connection joint (rim), which is mechanically, without welding, mounted to the external wall. The grooves of the head rim are designed in a way that there are only punctiform contact spots; this results in thermal bridge values, which are entirely negligible.

At the same time, special head rims of the ADW-System ensure an excellent static stiffness of the flue; this is even more important, the higher its vertical extend is.

ADW Meets all Technical Requirements

- Extremely Practical and Safe Connection

The ADW-system can be easily and quickly installed. The elements are connected by a turned-over edge plug connection with mechanically lockable pipe sleeve and safety screw closure. Due to its very high effectiveness and reliability, this plug connection together with the special head rim provide the system with the ideal stiffness, also with extremely high flues and ensure a perfectly straightlined run.

- No Welding Seams

The ADW-system has perfectly cylindrical walls – without overlapping tin or welding seams – due to the extremely precise vertical seam, which is made by laser beam. This solution provides for an evenly smooth, high gloss polished and corrosion resistant wall. The two walls are secured at the head rim, which takes care that they keep their concentric layout with the help of a mechanical coupling system: So, there are no welding seams here either, which could be a working surface for atmospheric effects within the system.

- Universal Use

The ADW-system can be combined with one-wall flues by Schiedel (Euroclik, Euroedil, Eurodrehfix) as well as with those by other manufacturers, due to specially designed components. Furthermore, it can be adjusted to flues made from fire-brick with a round or oblong diameter by Schiedel and by other manufacturers.

ADW Meets all Aesthetic Requirements

The ADW-flue gas system is a ready to use product; it can be installed instantly and doesn't require additional work on the walls. In order to meet all aesthetic/architectural requirements, it is available in different versions: 2R high gloss polished; lacquered with RAL-colour; electrically coloured; with a copper external wall. The mechanically attached exclusive head rim without welding seams provides a better stiffness for the flue, and due to the special processing, possible thermal bridges are eliminated.

flue is made from highdensity mineral fibre (Thickness 25/50 mm), which provides excellent insulation properties for the flue.

The internal wall is made from high-grade steel AISI 316L (1.4404): Best quality against corrosion caused by acid condensates.



The connection system with overlapping plug connector and mounting sleeve was designed to make the installation easier and quicker.

The external wall is made from high-grade steel AISI 304 (1.4301) and high gloss polished with surface treatment 2R. It may be lacquered with RAL-colour, electrically coloured, or designed in copper.

Dimensioning Tables

The most common dimensioning tables are listed below. If you would like to get information about other dimensions, you may contact our technical department.



Mixer Valve Heaters and Type B Heaters

Calculation Parameters

Fuel = gasiform.	Mouth piece: Wind or rain protected
Temperature flue gas	
outlet \ge 140 °C	Resistance coefficient for floors and versions,
External temperature = 15 °C	total j = 2
	Roughness = 0,001
Fume pipe:	
Length 2,5 m, utilizable height 0,5 m	Temperature resistance (1/^) $b \ge 0.45 \text{ m K/W}.$
Chimney with 90°-con- nection.	Height above sea level 100 m

Pressure Heaters and Type C Heaters

Calculation Parameters

Fuel = gasiform or liquid.	Mouth piece: Wind or rain protected
Temperature flue gas outlet \ge 140 °C	Resistance coefficient for bends and versions total $i = 2$
External Temperature = 15 °C	Roughness = 0,001
Fume pipe: Length 2,5 m, utilizable height 0.5 m	Temperature resistance (1/^) $b \ge 0,45 \text{ m K/W}.$
Chimney with	Height above sea level. 100 m
	Surplus Pressure Heaters 6 20N/m





Installation Plan





ADHA... Mouth piece with wind protection Complete with pipe sleeve.



ADHR... Mouth Cone Complete with pipe sleeve.



ADHS... Retaining Steel Plate 10°-45° Complete with weather leg.



ADHG... Retaining Steel Plate Even Complete with weather leg.



ADHH... Weather Leg



ADNB... Pipe Clamp

Indispensable with any connection. An arrow on the clamp indicates the direction of the flue gasses and therefore, the mounting position of the clamp on the pipe.



ADIP...

Pair of Wall Brackets. To be combined with the floor bracket. The mounting intervals depend on the diameter and are described in detail in the chapter "Self-support Values".



ADIN...

Floor Bracket The mounting intervals depend on the diameter and are described in detail in the chapter "Self-support Values".



ADIG... Wall Clamp

For professional execution, clamps should be mounted in 3 metre intervals.

ADIQ... Clamp Clamps must be mounted in 3 metre intervals.

ADIF... **Clamp for Tension** Rods

For professional execution, clamps for tension rods should be mounted at a free height of 1.5 metres and in 3 metre intervals from the below mounted wall bracket.



ADIC... Spacer

To be used exclusively in combination with the wall clamp.



ADGA... Bend 5° Complete with pipe clamp.



ADGB.. Bend 5° Komplett mit Rohrschelle.



ADGC... Bend 30° Complete with pipe clamp.



ADGD... Bend 45° Complete with pipe clamp.



ADEG... Flue Gas-Measuring Module

and Thermometer. Complete with pipe clamp. Element for flue gas control; it has to be positioned above the connection on units with a thermal output of over 30,000 kcal/h and near the mouth piece on units with a thermal output of over 500.000 kcal/h (DPR 1391/70).



ADEB... Flue Gas-Control Module

Complete with pipe clamp. Required by the Norm UNI 10641 for systems for operation of small airtight heaters (Type C).



Revision Closure Complete with pipe clamp, to be used at the base and at possible intermediate positions, as required by the regulations.

Interconnection

Revision Closure

ADCH...

ADBI...





ADCD... 90°-Connection Diameter 80 mm Complete with pipe clamp.



ADCA... 135°-Connection. Complete with pipe clamp.

ADCR... **Connection Sleeve** for Euroclik/Euroedil. Complete with pipe clamp.

ADCT... Connection sleeve for Eurodrehfix. Complete with pipe clamp.



Connection Sleeve for One-wall Systems with Identical Diameter. Complete with pipe clamp.

ADLF...







ADLD... **Counter Connection** Sleeve for One-wall

Systems. Complete with pipe clamp.



ADFV... Straight Section h 300 mm Complete with pipe clamp.



ADFU... Straight Section h 470 mm Complete with pipe clamp.



ADFS... Straight Section h 1195 mm Complete with pipe clamp.



ADFC... Adjustment Straight Section h from 100 to 900 mm (if combined with straight section h 970 mm) Complete with metal protecion tape for connection and pipe clamp.



ADAC... **Condensate Drain** Complete with pipe clamp. H 80 mm.



ADAD... Floor Brackets



ADLC... **Reduction Sleeve** for Accumulation Space

To be combined with the revision closure with bigger diameter (Code ADCH-ADBI). Complete with pipe clamp (Statute 615. Regulation with Legal Force D.L. 1391).

ADAB...



Ausgleichselement mit Gitter For systems operated by Type C heaters with 7-8

connections. Complete with pipe clamp.



ADW: A System with Endless Possibilities

ADW is built from ready to install modules, which provide for the construction of a broad variety of chimneys. The system doesn't require masonry works. Some of the most common implementations are shown below as examples:



The ADW-system for the use with common residential and industrial units.

The ADW-system for the use with residential units operated with Type C heaters.







The ADW-system for the use with common household units. The graphic shows an example for the shifting of the neutral axis to avoid a jut out of the building.

An ADW-system built of fire-bricks and high-grade steel for residential and industrial units. As the external flue doesn't have any supports, it must be anchored to the support pole.

Planning of Neutral Axis Shiftings

To calculate the shifting of a chimney's neutral axis, which is necessary to avoid a façade cornice or to bridge differences in height between connection and mouth of the heater, the following tables may be used:

If pairs of bends with different inclinations are used, more or less significant axis shiftings may be achieved; in order to obtain different measurements, only straight sections have to be placed between the two bends. Uncountable combinations may be reached with the different heights of the straight sections and their sum. To maintain the value of the horizontal axis shifting, only the value C of the chosen pair of bends has to be added with the value C of the straight section that shall be positioned in between, which can be found in the interstice of the inclination corresponding to the bends. The same procedure has to be performed with reference D to obtain the vertical shifting.

The second table on the neighbouring side contains the shifting values of the neutral axis by a combination of connections and bends.

Shifting	ı the I	leutral	Axis of	a Pair	of Rends
Uniting					

Int. Diameter	1	15°	3	0°	4	5°
	С	D	С	D	С	D
130	70	536	136	510	194	466
150	150 70 536		136	510	194	466
180	70	536	136	510	194	466
200	70	536	136	510	194	466
250	70	536	136	510	194	466
300	70	536	136	510	194	466
300s	90	686	174	652	246	843
350	90	686	174	652	246	843
400	90	686	174	652	246	843
450	-	-	-	-	-	-
500	500				-	-
600	-	-	-	-	-	-







All measurements are indicated in millimetres

Shifting the Neutral Axis of Leaning Straight Sections

Utilizable H	1	15°	3	0°	45 °		
	C D		С	D	С	D	
300	78	290	150	260	212	212	
470	121	452	234	405	331	331	
970	251	935	484	838	684	684	
1195	309	1153	597	1034	844	844	







Shifting of the Neutral Axes of Bends Combined with Connections

Int. Diameter	Connec	ction 90°+	Bend 45°	Connection 1	35°+Bend 45°	Connection	135°+Bend 45°
	D	С	E	С	E	С	E
130	228	504	164	461	507	325	643
150	228	514	164	478	500	342	636
180	228	529	164	504	490	368	626
200	228	539	164	506	483	370	619
250	228	564	164	563	965	427	1101
300	228	589	164	606	947	470	1083
300s	265	705	211	-	-	-	-
350	290	730	211	-	-	-	-
400	315	755	211	-	-	-	-
450	340						
500	365						
600	415						







Self-support Values

Every diameter of the ADW-series is delivered with its own specific brackets. By correctly using these components, chimneys of any height and any run may be built.

The following table indicates the self-support values. The distances indicated with H, represent the maximum height in metres between two supports.



Int. Diameter	H1 Height above the Connection 90° oder 135°	H2 Height between Two Wall Brackets or Floor Brackets	H3 Height between Two Clamps	H3 Height between Two Wall Clamps	H4 Distance between Clamp for Tension Rods and Mouth Piece	
mm	m	m	m	m	m	
130	5	15	3	3	1,5	
150	5	12	3	3	1,5	
180	5	12	3	3	1,5	
200	5	10	3	3	1,5	
250	5	10	3	3	1,5	
300	5	10	3	3	1,5	
300s	5	10	3	3	1,5	
350	5	10	3	3	1,5	
400	3	8	3	3	1,5	
450	3	8	3	3	1,5	
500	3	7	3	3	1,5	
600	3	7	3	3	1,5	

Support Structures

Special constructional conditions may require support structures for one or several chimneys.

These conditions usually occur in the following situations:

1) The chimney sits on the floor and cannot be anchored at a firmly standing structure;

2) The chimney juts over a roof – or over a wall, to which it is attached – for a number of metres, which is larger than the maximum number permitted according to the specific self-support values

(see table on page 12).

In both cases, a support must be manufactured and mounted in accordance with the following specifications.

Please contact Schiedel's technical department at for information about special support structures.



Support Poles

The support pole with adjustable diameter and adjustable thickness, so it can meet every single requirement, consists of an electrically welded steel pipe profile. The attachment to the floor and the static of the unit are provided by the mounting of welded plates at the base, which are anchored with dowels or bolts at existing plates or base-plates that are specially manufactured for this purpose.

If the pole is of considerable height, it may be delivered in several sections that can be reassembled with flange and bold connections or with overhanging plug connections, in order to make transport and installation easier.

Support Trellis Poles

The support trellis pole has a structure of a triangular diameter and consists of diagonally mounted pipe carriers of ordinary or high-grade steel, which are electrically welded and can also be measured according to the requirements of the respective disposition.

The attachment of support plates provides a perfect anchoring at the plates or base-plates. Also in this case, the use of flanges and bolts gives the possibility of a sectional installation, which solves all transport or construction problems.

In both cases, a broad variety of designs is available for the outside to meet all of the users requirements: The classical hot galvanisation, stainless steel or hot galvanisation with varnishing of choice in RAL-colour and any other solution upon special request.





Support Trellis Pole

Specification Position

The ADW-system consisting of heat insulated, doublewall modules with circular diameter. Suitable for any type of unit in households and industry and able to guarantee an excellent resistance against the effects of grain boundary corrosion and against thermal fluctuation with peak values of up to 500/600 °C.

Internal wall made of stainless steel AISI 316L (classified by UNI EN 10088 in 1.4404) with a thickness of 0.4 or 0.5 mm.

Heat insulation with a thickness of 25 or 50 mm made from high-density mineral fibre.

External wall made from stainless steel AISI 304 (classified by UNI EN 10088 in 1.4301) with surface treatment on the outer side 2R high gloss polished, thickness 0.4 or 0.5 mm. Overlapping head rim with pipe clamp and screw coupling, which is necessary for a tight closing of the connection; this provides the flue with an excellent stiffness, even with large heights. The overlapping head rim consisting of lamellae, which are mechanically mounted (without welding seams) on the exterior wall and connected with the interior wall by a punctiform contact, so thermal bridges can be reduced to negligible values and permitting the inner flue, which is exposed to sudden changes in temperature to expand.

The surface treatment provides static stability and an excellent resistance against weather forces. The high gloss polished exterior wall and a possible surface treatment in copper, with RAL-lacquering or in electrolytic colouring allows for sophisticated aesthetic solutions.

Specification Position Support Pole

The support pole for ADW-chimneys consists of an electrically welded steel pipe, which is flanged to support plates at the lower wall. Anchoring with dowels or bolts to plates or base-plates, which are specially man-

ufactured for this purpose. Surface treatment of the outside: Hot galvanisation, stainless steel or hot galvanisation with RAL-colour lacquering.

Specification Position Support Trellis Pole

The support trellis pole for ADW-chimneys consists of electrically welded steel pipes, which are laid out on a triangular base and connected with each other by correspondingly measured carriers and diagonals. Mounting of support plates for attachment on plates of base-plates. Surface treatment of the outside: Hot galvanisation, stainless steel or hot galvanisation with RAL-colour lacquering.

Description of the Elements

All measurments are indicated in millimetres



Mouth Piece with Wind Protection – ADHA...

Mouth piece to protect the chimney from water intrusion and wind forces.

	Thickness 25								Thickness 50				
ID	130	150	180	200	250	300	300	350	400	450	500	600	
ED	180	200	230	250	300	350	400	450	500	550	600	700	
Н	266	276	291	301	326	351	336	366	386	416	436	496	
Øa	320	340	390	440	540	640	660	700	860	970	970	970	





Mouth Cone – ADHR...

Insulated mouth piece to reduce load losses.



Thickness 25							Thickness 50					
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	225	225	225	225	225	225	225	310	310	310	310	310



Retaining Steel Plate 10°- 45° - ADHS...

Element to be installed on hipped roofs with an inclination of 10° to 45°; it is necessary to avoid water intrusion at the location, where the chimney is emerging from the roof. Complete with weather leg, which has to be mounted on the flue.

		Th	icknes	s 25			Thickness 50					
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Α	1000	1000	1000	1000	1000	1225	1287	1350	1415	_	_	_
В	970	970	970	970	970	970	970	1195	1250	_	_	_
С	198	189	180	170	150	200	200	200	200	-	-	-
Н	200	200	200	200	200	200	200	200	200	_	-	_



Retaining Steel Plate Even – ADHG...



Element to be installed on hipped roofs with an inclination of 0° to 10° ; it is necessary to avoid water intrusion at the location, where the chimney is emerging from the roof.

Complete with weather leg, which has to be mounted on the flue..

	Thickness 25							Thickness 50				
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	200	200	200	200	200	200	200	200	200	_	-	_
AxA	660	660	1000	1000	1000	1000	1000	1000	1000	_	_	_



Weather Leg – ADHH...

Flange that has to be attached to the flue above the point where it is emerging from the roof, once the connection to the roof shingles is taking place.





		Thi	icknes	s 25				٦	Thickn	ess 50)	
ID	130 150 180 200 250 30 180 200 230 250 300 35					300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	100	100	100	100	100	100	100	100	100	100	100	100
Øa	250	270	300	320	370	420	470	520	570	620	670	770

Pipe Clamp – ADNB...

Indispensable element; it has to be mounted on the outside of the pipe adjacent to every connection point and into the two intakes on the two headpieces, so a perfect mechanical sealing and the stiffness of the flue is guaranteed.

An arrow on the clamp indicates the direction of the flue gasses and therefore, the mounting position of the clamp on the pipe.

		Thi	icknes	s 25	_			٦	Thickn	ess 50)	
ID	D 130 150 180 200 250 300						300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	60	60	60	60	60	60	60	60	60	60	60	60





Pair of Wall Brackets – ADIP...

Necessary element to take up the weight of the flue, to be combined with the floor bracket (ADIN...) and mounted on the support wall. The mounting intervals depend on the diameter and are described in detail in the chapter "Self-support Values".

		Th	icknes	s 25				٦	Fhickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Α	80	80	80	80	80	80	80	80	80	80	80	80
Bmin	40	40	40	40	40	40	40	40	40	40	40	40
Н	260	280	310	330	380	430	480	530	580	630	680	780



Floor Bracket – ADIN...

Necessary element to take up the weight of the flue, to be mounted on the floor adjacent to the ceiling transition. The mounting intervals depend on the diameter and are described in detail in the chapter "Selfsupport Values". Combined with the bracket pair ADIP..., it serves as wall bracket.





		Th	icknes	s 25				٦	Fhick n	ess 50)	
ID	ID 130 150 180 200 250 300					300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
AxA	60	280	310	330	380	430	480	530	580	630	680	780
В	40	40	40	40	40	40	40	40	40	40	40	40



Wall Clamp – ADIG...

Necessary element to anchor the flue at the wall and to ensure its vertical position. For a professional execution, a wall clamp should be installed in 3 metre intervals.

		Th	icknes	s 25				٦	Thickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Α	180	180	230	230	300	350	400	-	-	-	-	-
В	40	40	40	40	40	40	40	40	40	40	40	40
н	80	80	80	80	80	80	80	80	80	80	80	80



Clamp – ADIQ...

Element allowing to control the vertical position and the taking up of the flue's weight. A clamp has to be mounted in 3 metre intervals as replacement for wall clamps and wall brackets, if the constructional conditions allow this.

	Thickness 25 ID 130 150 180 200 250 300 ED 180 200 230 250 300 350							٦	Thickn	ess 50)	
ID	D 130 150 180 200 250 300						300	350	400	450	500	600
ED	ED 180 200 230 250 300 350						400	450	500	550	600	700
Α	40	40	40	40	40	40	40	-	-	-	-	-



Clamp for Tension Rods – ADIF...

Necessary element to strut the flue with the section, where it emerges above he roofline. For a professional execution, the clamp for tension rods should be mounted at a free height of 1.5 m and in a distance of 3 m to the wall clamp below. At a larger free height, a support structure must be mounted as described in the chapter "Support Structures".





		Thi	cknes	s 25				٦	Thickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	ED 180 200 230 250 300 350						400	450	500	550	600	700
Н	60	60	60	60	60	60	60	60	60	60	60	60



Spacer – ADIC

A pair of s-shaped mounting brackets, which keep the chimney away from the support wall. To be used exclusively in combination with the wall clamp.

		Th	icknes	s 25				٦	Fhickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Α	30	30	30	30	30	30	30	-	-	-	-	-
Н	60	60	60	60	60	60	60	_	_	-	_	_
В	0–95	0–95	0–95	0–95	0–95	0–95	0–95	_	-	_	-	_





Bend 5° – ADGA

Bend with a 5° inclination towards the principal axis; it is necessary to achieve the inclination of the sub-horizontal sections of the smoke pipes required by the regulations.

		Th	icknes	s 25				٦	Fhickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
D	12	12	12	12	12	12	15	15	15	_	_	-
С	272	272	272	272	272	272	348	348	348	_	_	-





Bend 15° – ADGB...

Bend with a 15° inclination towards the principal axis; with this, the vertical run of the chimney and the subhorizontal run of the smoke pipe can be diverted in relation to the shiftings described in the chapter "Planning Shiftings of the Centre Line".



		Thi	icknes	s 25				٦	Thickn	ess 50)	
ID	130	30 150 180 200 250 3 80 200 230 250 300 3					300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
D	35	35	35	35	35	35	45	45	45	_	_	_
С	268	268	268	268	268	268	343	343	343	_	—	—



Bend 30° – ADGC...

Bend with a 30° inclination towards the principal axis; with this, the vertical run of the chimney and the subhorizontal run of the smoke pipe can be diverted in relation to the shiftings described in the chapter "Planning Shiftings of the Centre Line".

		Th	icknes	s 25				٦	Fhickn	ess 50	0	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
D	68	68	68	68	68	68	87	87	87	-	-	-
С	255	255	255	255	255	255	326	326	326	-	-	-





Bend 45° – ADGD...

Bend with a 45° inclination towards the principal axis; with this, the vertical run of the chimney and the subhorizontal run of the smoke pipe can be diverted in relation to the shiftings described in the chapter "Planning Shiftings of the Centre Line".

		Th	icknes	s 25				-	Fhickn	ess 50)	
ID	D 130 150 180 200 250 30 D 180 200 230 250 300 30					300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
D	97	97	97	97	97	97	123	123	123	-	-	-
С	233	233	233	233	233	233	298	298	298	-	-	-





Flue Gas-Control Module – ABEB...

Lineal element, which is equipped with a seal top sleeve to perform combustion analyses (UNI 10641).

		Thi	icknes	s 25				٦	Thickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
H_1	150	150	150	150	150	150	-	-	-	-	-	-
D	300	300	300	300	300	300	-	_	_	-	_	-



Flue Gas-Measuring Module and Thermometer – ADEG...

Element for flue gas control; it has to be positioned above the connection on units with a thermal output of over 30,000 kcal/h and near the mouth piece on units with a thermal output of over 500,000 kcal/h (DPR 1391/70).

		Th	icknes	s 25				1	Fhickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	468	468	468	468	468	468	468	468	468	468	468	468
Α	140	140	140	140	140	140	140	140	140	140	140	140
В	228	228	228	228	228	228	228	228	228	228	228	228
С	27	27	27	27	27	27	27	27	27	27	27	27
D	20	20	20	20	20	20	20	20	20	20	20	20







Revision Closure with Shutter – ADCH...

Element for inspecting the fume outlet; it has to be used at the base and possibly at intermediate positions as required by the regulations. With lockable shutter. Combined with the sleeve (ADLC...), it also may be used as accumulation space (Statute 615 D.L. 1391); please see also the table for the combinations on page 26.



		Thi	icknes	s 25				٦	Thickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	-	-	468	468	468	468	468	468	468	468	468	468
Α	-	—	282	282	395	395	395	395	395	395	395	395
В	-	—	190	190	265	265	265	265	265	265	265	265
D	-	-	20	20	20	20	20	20	20	20	20	20

Revision Closure – ADBI...

Element for inspecting the fume outlet, consisting of the 90°-connection (ADCB...) and a seal top, including appendant mounting sleeve. Combined with the sleeve (ADLC...), it also may be used as accumulation space (Statute 615 D.L. 1391); please see also the table for the combinations on page 26.

		Th	icknes	s 25				-	Thickn	ess 5	0	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	468	468	468	468	468	468	968	968	968	968	968	968
Α	142	142	142	142	142	142	142	142	142	142	142	142





Element with an internal diameter of 80 mm and an incline of 90 degrees to connect the vertical section with the sub-horizontal fume pipe.

90°-Connection Diameter 80 mm – ADCD...

		Th	icknes	s 25				1	Thickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	468	468	468	468	468	468	-	-	-	-	-	-
Α	103	103	103	103	103	103	-	-	-	-	-	-
В	100	100	100	100	100	100	-	-	-	-	-	-
Øi	80	80	80	80	80	80	-	-	-	-	-	_



90°-Connection – ADCB...

Element with an incline of 90 degrees to connect the vertical section with the sub-horizontal fume pipe.

		Th	icknes	s 25				٦	Fhickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	468	468	468	468	468	468	968	968	968	968	968	968
Α	228	228	228	228	228	228	265	290	315	340	365	415





135°-Connection – ADCA...

Element with an incline of 135 degrees to connect the vertical section with the sub-horizontal fume pipe.

		Thi	icknes	s 25				٦	Fhickn	ess 50)	
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	468	468	468	468	968	968	968	968	968	968	968	1195
А	228	245	271	273	330	373	_	-	_	_	_	-
В	58	65	75	82	100	118	_	-	_	_	_	-

Connection Sleeve for One-wall Systems with Identical Diameter – ADLE...

Element to connect the connection with the sub-horizontal one-wall stainless steel fume pipe with identical diameter.

		Th	icknes	s 25				-	Fhickn	ess 50)	
ID	ID 130 150 180 200 250 30					300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	488	488	488	488	488	488	488	488	488	488	488	488





Connection Sleeve for Euroclik/Euroedil – ADCR...

Element to connect the ADW-connector with the subhorizontal fume pipe in the Euroclik/Euroedil-system.

		Thi	cknes	s 25				٦	Thickn	ess 50)	_
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	236	236	236	236	236	236	236	—	—	—	_	—

Connection Sleeve for Eurodrehfix – ADCT...

Element to connect the ADW-connector with the subhorizontal fume pipe in the Eurodrehfix-system.

		Th	icknes	s 25				٦	Fhickn	ess 50)	
ID	ID 130 150 180 200 250 30					300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	236	236	236	236	236	236	236	_	_	_	_	-
Øa	120	140	180	200	250	300	300	_	_	_	_	-





Universal-Connection Sleeve – ADLF...

Element to connect the ADW-connector with the subhorizontal one-wall fume pipe, whose diameter and length have to be indicated in the order.

	_	Th	icknes	s 25		_		-	Thickn	ess 50)	
ID 130 150 180 200 250 300							300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700

Counter Connection Sleeve for One-wall Systems – ADLD...

Element to connect an end connector of ADW-elements with an end connector of one-wall components Euroclik/Euroedil. Consisting of a one-sided sleeve, which has to be put over the ADW-element and attached with the pipe clamp using the round element welded to the sleeve. Supplemented by Euroclik/ Euroedil-sleeve with intake connector of the same diameter.



		Th	icknes	s 25				٦	Fhickn	ess 50)	
ID 130 150 180 200 250 30						300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700



Straight-lined element with an utilizable height of 300 mm; it may be used at vertical sections or at subhorizontal fume pipes.

Straight Section h 300 mm – ADFV...

Thickness 25								Thickness 50						
ID	130	150	180	200	250	300	300	350	400	450	500	600		
ED	180	200	230	250	300	350	400	450	500	550	600	700		
Н	300	300	300	300	300	300	300	300	300	300	300	300		



Straight Section h 470 mm – ADFU...

Straight-lined element with an utilizable height of 468 mm; it may be used at vertical sections or at subhorizontal fume pipes.

	Thickness 25								Thickness 50					
ID	130	150	180	200	250	300	300	350	400	450	500	600		
ED	180	200	230	250	300	350	400	450	500	550	600	700		
Н	468	468	468	468	468	468	468	468	468	468	468	468		







Straight Section h 970 mm – ADFT...

Straight-lined element with an utilizable height of 968 mm; it may be used at vertical sections or at subhorizontal fume pipes.

		Thi	icknes	s 25			Thickness 50						
ID	130	150	180	200	250	300	300	350	400	450	500	600	
ED	180	200	230	250	300	350	400	450	500	550	600	700	
Н	968	968	968	968	968	968	968	968	968	968	968	968	



Straight Section h 1195 mm – ADFS...

Straight-lined element with an utilizable height of 1,195 mm; it may be used at vertical sections or at subhorizontal fume pipes.

		Th	icknes	s 25	Thickness 50							
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Н	1195	1195	1195	1195	1195	1195	1195	_	_	_	-	-



Adjustment Straight Section – ADFC...

Straight-lined element with an adjustable height of 100 to 900 mm. Complete with a cupola h 970 mm, which has to be cut to size on site. The included pipe clamp has to be mounted at its height. Element that has to be installed in combination with a straight section h 970 mm (it also may be combined with a straight section of lower height, which, however, would result in different final heights). After cutting the cupola to the desired height, stick the element on the ADW-straight section and let it glide, until the cupola rests on the head piece; attach the cylinder support and complete the mounting of the pipe clamp.

		Th	icknes	s 25	Thickness 50							
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
H min	100	100	100	100	100	100	100	_	_	-	-	-
H max	900	900	900	900	900	900	900	-	-	-	-	-





Reduction Sleeve for Accumulation Space – ADLC...

To be used in combination with the revision closure for building the accumulation space according to the table on page 21, which has to be positioned at the base of the fume outlet on units operated with solid or liquid units with a thermal output of over 30,000 kcal/h (DPR 1391/70).



		Thi	icknes	s 25		Thickness 50						
ID	D 130 150 180 200 250 300						300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Α	230	230	300	300	350	500	500	550	600	700	700	-
Н	81	81	155	81	81	150	81	81	81	81	81	-

Adjustment Straight Section with Screen -ADAB...

Straight-lined element with venting screen for shared gas units operating with Type C equipment at a capacity < 35 kW.





Condensate Drain – ADAC...

Element with funnel-shaped bottom and appropriate sleeve to drain condensate; it has to be used at the chimney base. With sealing cap.

Thickness 25								Thickness 50						
ID	130	150	180	200	250	300	300	350	400	450	500	600		
ED	180	200	230	250	300	350	400	450	500	550	600	700		
Н	121	121	123	123	124	126	115	115	115	115	115	115		
H1	80	80	80	80	80	80	75	75	75	75	75	75		



Floor Bracket – ADAD...

Element, which is mounted together with the condensate drain (ADAC...) at the base of the chimney; it is important for the support of the chimney, if it is resting on a stand or a pedestal.





		Th	icknes	s 25		Thickness 50						
ID	130	150	180	200	250	300	300	350	400	450	500	600
ED	180	200	230	250	300	350	400	450	500	550	600	700
Α	230	230	340	340	340	430	430	530	530	630	630	730
Н	200	200	200	200	200	200	200	200	200	200	200	200
В	90	90	90	90	90	90	90	90	90	90	90	90
Ø	140	140	140	140	140	140	140	140	140	140	140	140

