SYSTEM OF HEAT RESISTANT SINGLE-WALL CHIMNEY LINER

KZS

EN

01/23

KZS

Characteristics of KZS system

KZS system- pipes and fittings of exhaust system open chamber heating appliance for solid fuels.

KZS system is produced from stainless steel of proper chemical composition, that guarantees its heat-resistance. Combustion of solid fuels is characterized by high temperatures, that cause heating of chimney duct walls. Steel composition as well as its technological parameters have to guarantee the proper work of chimney and protect it from the damaging heat. KZS system produces liners of following thickness - 0,8 mm and 1,0 mm.

When KZS system is to be used and what are its advantages

The very first argument, that suggest choice of KZS system is open chamber heating appliance for solid fuels. They are characterized by uptake of surrounding air which is necessary for combustion process. Exhaust gases are carried away by chimney duct. The basic advantage for KZS system users is its safety, that is provided by tight pin-muff coupling.

Another advantage is economy resulting from the relatively low prices of particular elements as well as low costs of installation. And of course the comfortable using, ensured thanks to all material and technological features of the system. Proper technological process in connection with modern production process guarantees long lasting system functionality.

The main features of the KZS system

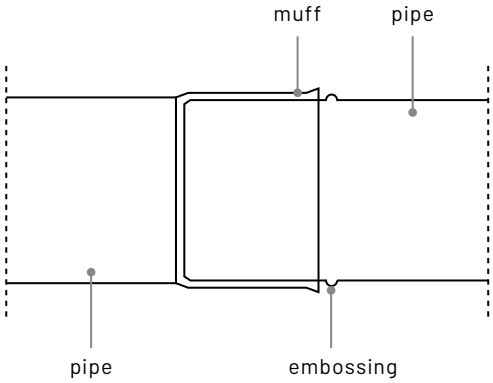
- The best quality
- Possibility of personalisation
- Design and manufacturing accuracy
- Easy installation

Technical data

Destination	Open chamber heating appliances
Fuel type	Ecological solid fuels
Available diameters	Dn 110-Dn 500, larger diameters upon individual request
Steel thickness	0,8 - 1,0 mm
Type of steel	1.4828, 1.4404, 1.4571 or other according to PN-EN 1856-1
Type of connection	Socket
Temperature class	T 450
Pressure class	N1 (pressure of 40Pa)
Operation mode	Negative pressure
Soot fire resistant	G 1000

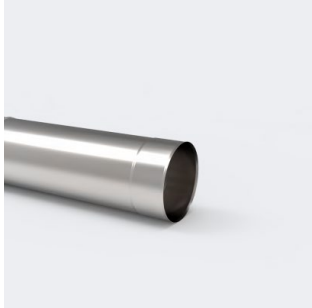
Connection of KZS system components

KZS system components are connected by socket system. Thanks to such connection the structure of the liner is stiff and connections are tight.



Pipe L=1000 mm

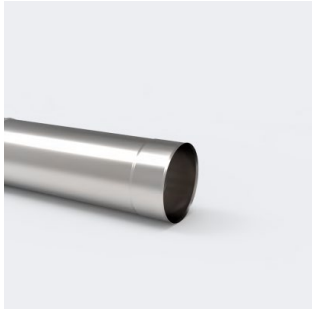
Index	KZS-R10



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe L=500 mm

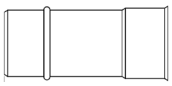
Index	KZS-R02



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe L=250 mm

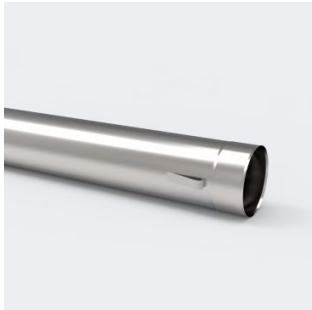
Index	KZS-R02



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with stabilizer L=1000 mm

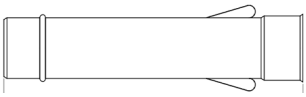
Index	KZS-RU10



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with stabilizer L=500 mm

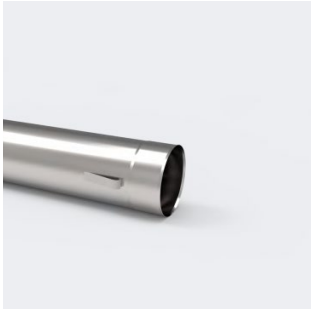
Index	KZS - RU05

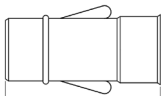


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with stabilizer L=250 mm

Index	KZS - RU02

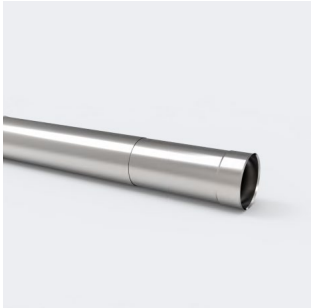




Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Telescopic pipe L=1000 mm

Index	KZS - RT10



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

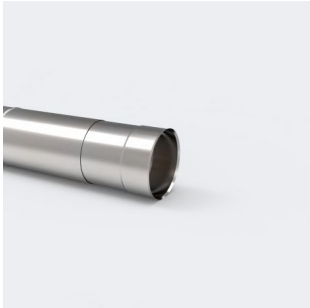
Telescopic pipe L=500 mm

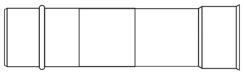
Index	KZS - RT05

Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Telescopic pipe L=250 mm

Index	KZS - RT02

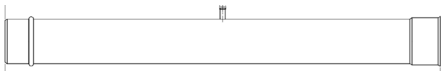




Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with connection 1/2" L=1000 mm

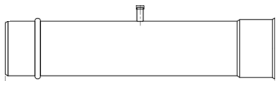
Index	KZS - RKC10



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with connection 1/2" L=500 mm

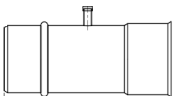
Index	KZS - RKC05



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with connection 1/2" L=500 mm

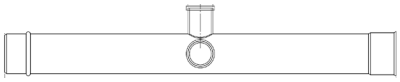
Index	KZS - RKC02



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with connection M64x4 L=1000 mm

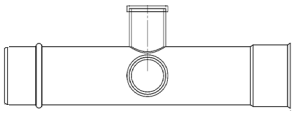
Index	KZS - RKM10



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with connection M64x4 L=500 mm

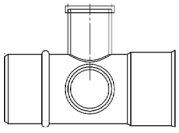
Index	KZS - RKM05



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pipe with connection M64x4 L=250 mm

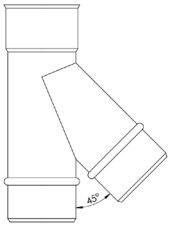
Index	KZS - RKM02



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee-pipe 45°

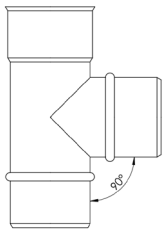
Index	KZS - TR45



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee-pipe 90°

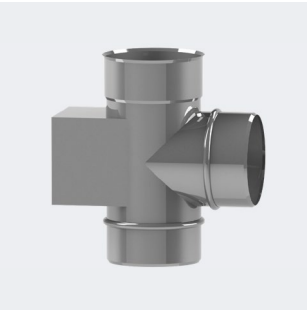
Index	KZS - TR90

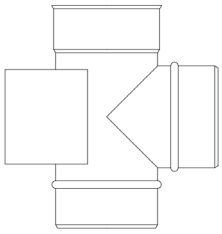


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee with opposite cleaning

Index	KZSD - TR90

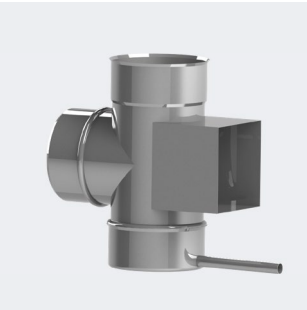


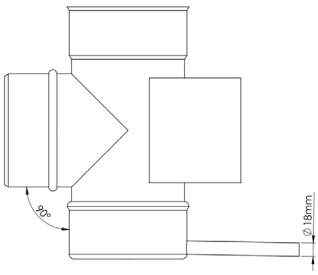


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Tee with opposite cleaning and condenser

Index	KZSD - TR90-WO

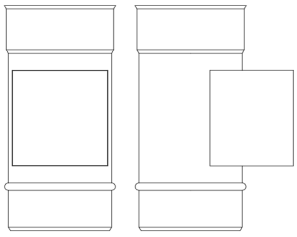




Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout

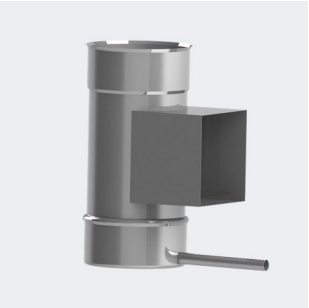
Index	KZS - W

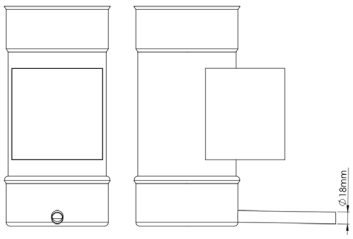


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout with condenser

Index	KZS - WO

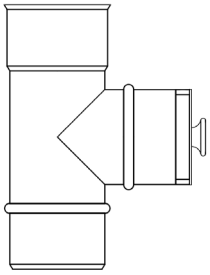




Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cleanout tee with cover

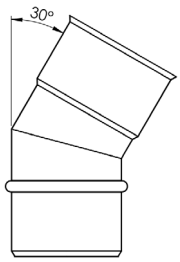
Index	KZS - WTD



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Elbow 30°

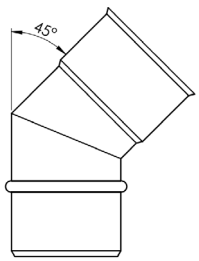
Index	KZS - K30



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Elbow 45°

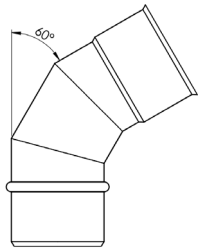
Index	KZS - K45



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Elbow 60°

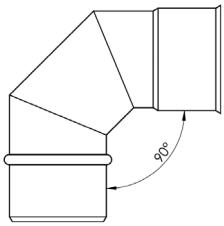
Index KZS - K60



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Elbow 90°

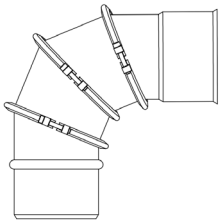
Index KZS - K90



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Adjustable elbow 0°- 90°

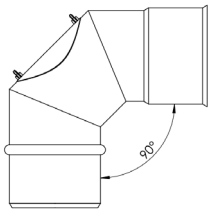
Index KZS - KN90



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Elbow 90° with cleanout

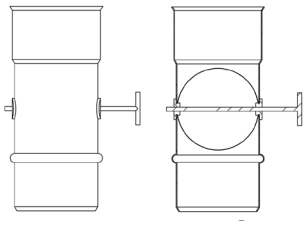
Index KZS - KW90



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Damper

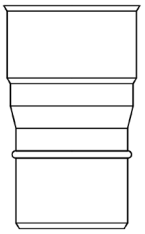
Index	KZS - S



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Conical reduction

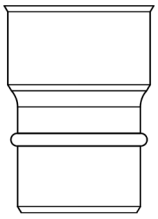
Index	KZS - RS



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Stamped reduction

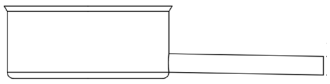
Index	KZS - RR



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Condensate collector

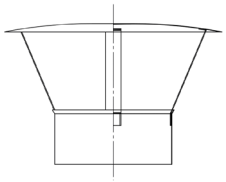
Index	KZS - O



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cap

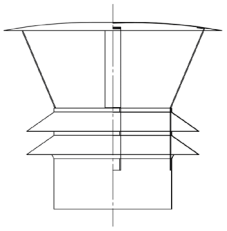
Index	KZS - D



Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]		0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cap with two rings

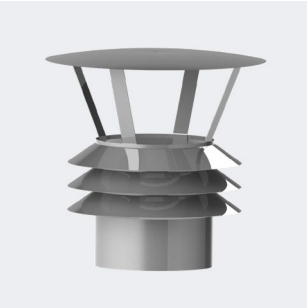
Index	KZS - DP2

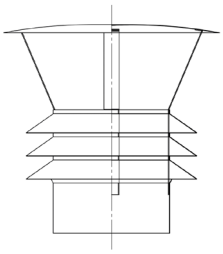


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]		0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cap with three rings

Index	KZS - DP3

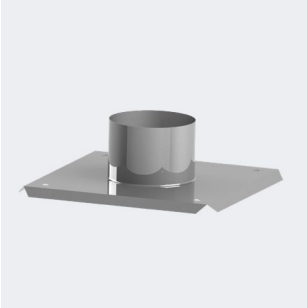


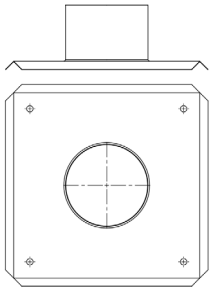


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]		0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Pass-through

Index	KZS - PR

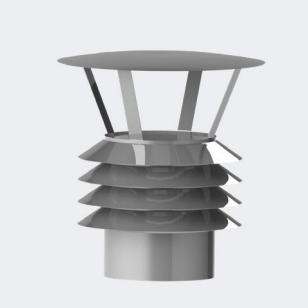


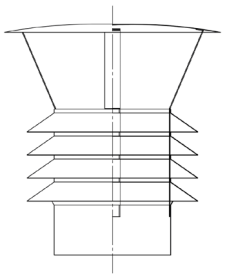


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]		0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Cap with four rings

Index	KZS - DP4

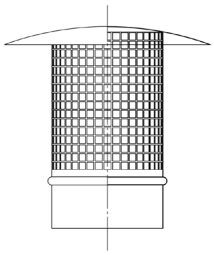




Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]		0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Spark arrestor

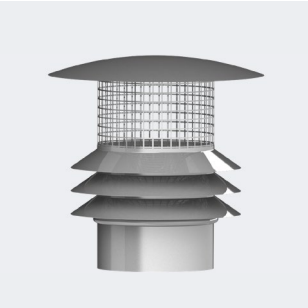
Index	KZS - L

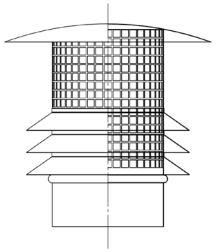


Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]	0,8	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Spark arrestor Ring

Index	KZS - LR

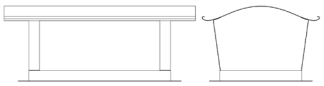




Diameters	[mm]	110	120	130	140	150	160	180	200	225	250	300	350	400	450	500
Available steel thickness	[mm]		0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0	0,8 1,0

Napoleon cap 1

Index	KZS-DN



Diameters	[mm]	140x140	142x270	140x350	200x200	270x270	400x400	400x500	400x600	500x500	500x600
Available steel thickness	[mm]	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

Napoleon cap 2

Index	KZS - DN2

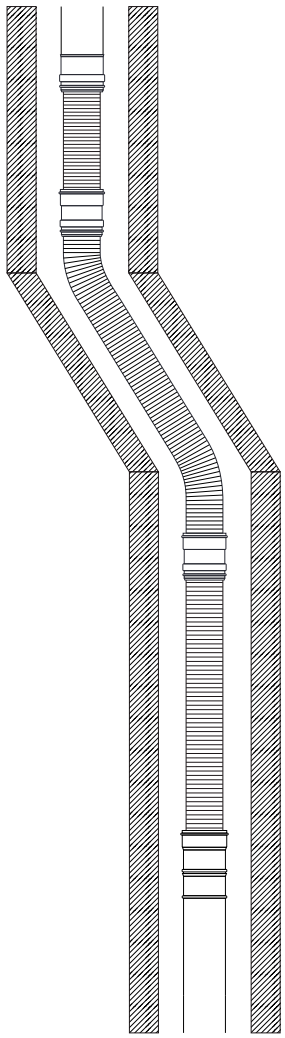
Diameters	[mm]	140x140	142x270	140x350	200x200	270x270	400x400	400x500	400x600	500x500	500x600
Available steel thickness	[mm]	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

Napoleon cap 3

Index	KZS - DN3

Diameters	[mm]	140x140	142x270	140x350	200x200	270x270	400x400	400x500	400x600	500x500	500x600
Available steel thickness	[mm]	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

PROFIFLEX

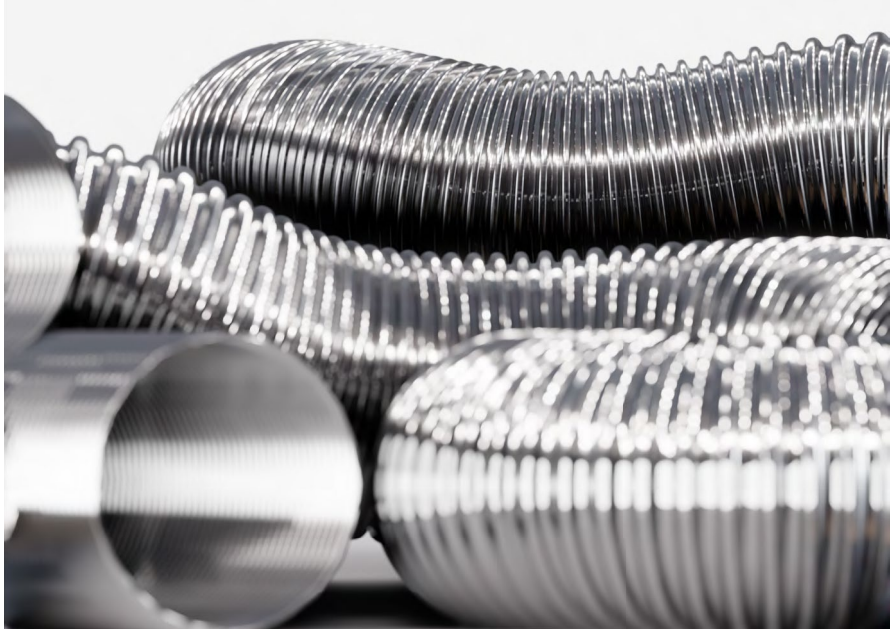


System of flexible liners with kit of top, bottom and intermediate adapters.

The system of flexible pipes - **PROFIFLEX** with the kit of fitting is included to the KZS system as its following element.

Flexible pipes constitute ideal solution for chimney shafts with irregular surface or necessity of change of chimney duct direction. The system of flexible pipes enables much easier installation when additional elements (special elbows) are necessary for the change of direction of the liner. Instead of complicate construction and impeded installation we have got one duct, that replace whole extended construction of the crossing that is result of necessity of change the liner direction.

It is an economical and practical solution. **PROFIFLEX** is heat-resistant and thanks to that it keeps its material features. **PROFIFLEX** allows also match of liners' length- even to up to a dozen or so meters without necessity of joining some smaller parts.



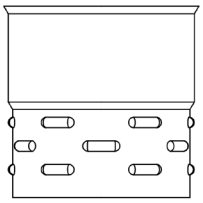
PROFIFLEX flexible pipe

Index	KZS - RUX

Diameters	[mm]	100	110	120	130	140	150	160	180	200	225	250	300
Available steel thickness	[mm]	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

PROFIFLEX top adapter

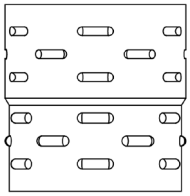
Index	KZS-ZGUX



Diameters	[mm]	100	110	120	130	140	150	160	180	200	225	250	300
Available steel thickness	[mm]	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

PROFIFLEX middle adapter

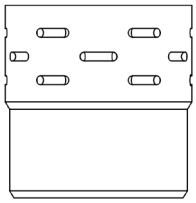
Index	KZS - ZPUX



Diameters	[mm]	100	110	120	130	140	150	160	180	200	225	250	300
Available steel thickness	[mm]	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

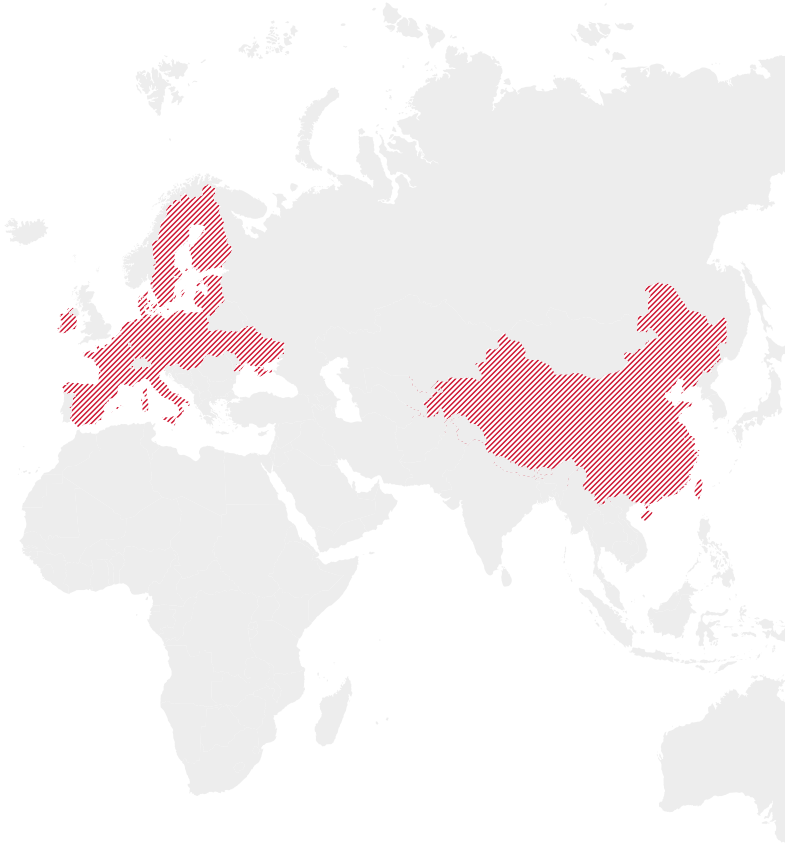
PROFIFLEX bottom adapter

Index	KZS-ZDUX



Diameters	[mm]	100	110	120	130	140	150	160	180	200	225	250	300
Available steel thickness	[mm]	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

We are open to the whole world!



The great capacity of our production facilities and the experience we have gained over many years allows us to develop our company through international cooperation. As a result, we are looking beyond the borders of Poland.

To this date, the steel components we produce have been supplied to European countries such as Austria, Germany, France, Italy, Sweden,Finland, Denmark, the Netherlands, the Czech Republic, Slovakia, and Lithuania, among others.

Count on an experienced company! Get in touch with us!

Kominus Polska Sp. z o.o. (Ltd.)

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KOMINUS

We Are Made of Steel

Kominus Polska Headquarters and main production facility

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