

**Chimney connection system <SPK>**

Is used for the construction of chimney connection made entirely of 2mm mild steel DC01 acc. to EN-10130/07. Recommended for fume extraction from fireplaces and solid fuel heating appliances operating without condensation.

The <SPK> chimney connection system can be used as a connection to boilers discharging flue gases whose temperature can briefly reach 1000°C.

The components of the <SPK> system are not allowed to be used to form a chimney or chimney liner.

Maximum continuous operating temperature: 600°C

Certificate of Factory Production Control 1450-CPR-0007 issued by INiG in Cracow.

System components are laser-welded and coated with SENOTHERM odourless, heat resistant paint, bell joints.

Warranty 2 years.



**Bell joint pipe connection**

The individual components of the SPK chimney connection system are joint by inserting one part of the element (spigot), which is characteristically squeezed, into the other part, which is not compressed. Bell-type connection ensures a tight and rigid connection structure and proper flow of exhaust fumes from the stove to the chimney. Elements should be connected with the spigot part upwards. Possible reversal of the flow of the elements (to prevent the condensate from flowing out of the connection) can be carried out using male connectors. Proper condensate drainage is secured by usage of g a female connector (with anti-condensation protection).

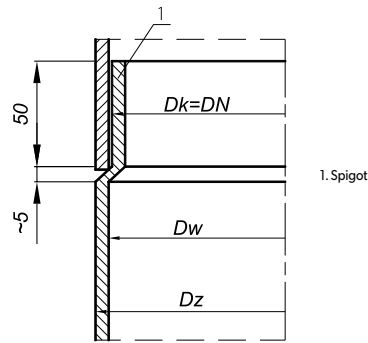


Fig. Method of joining chimney connection pipe elements

**Table of layouts and sizes**

Diameter DN	Lr	Dz	Dw	Dk=DN
120	386	125	121	120
130	418	135	131	130
150	481	155	151	150
160	512	165	161	160
180	575	185	181	180
200	638	205	201	200
220	700	225	221	220
250	795	255	251	250

**Measurments**

Lr - metal sheet layout [mm] ±0.1

Dz - outer diameter of pipe [mm]

Dw - inner diameter of pipe [mm]

Dk - inner diameter of spigot [mm]

**Destination**

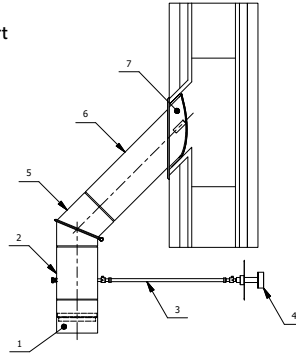
D - smoke ducts

**Model application of elements**

**Scheme I - Built-in fireplace**

Example construction of chimney connection with 45 degree angular insert with rope. Requires cutting the flue pipe to the correct angle.

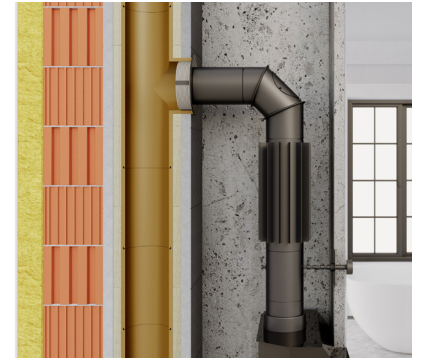
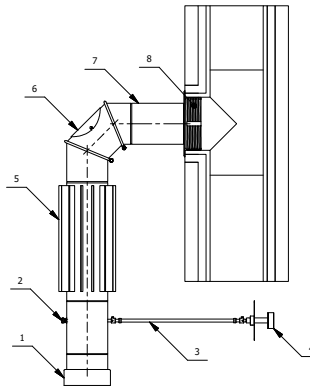
No	Name	Denotation
1	Female connector	ZZ150-CZ2
2	Chimney damper	SZK150-CZ2-8x8
3	Flexible shaft	SZKZ-REG-WG
4	Chimney damper knob	SZKZV-REG...
5	Adjustable elbow 45°	KNS150/45-CZ2
6	Straight pipe 500 [mm]	RP150/500-CZ2
7	Angular insert 45° with rope	WKK-KS150/150/45-CZ2



**Scheme II - Built-in fireplace**

Example construction of a chimney connection with an insert with rope.

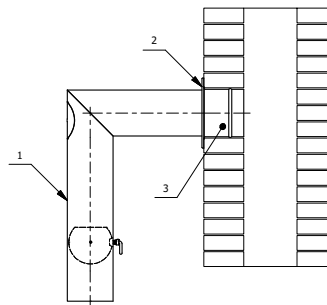
No	Name	Denotation
1	Reducer (adaptor)	RD200/180-CZ2-R
2	Chimney damper	SZK180-CZ2-8x8
3	Flexible shaft	SZKZ-REG-WG
4	Chimney damper knob	SZKZV-REG...
5	Radiator pipe	RPZ180/500-CZ2
6	Adjustable elbow 90° with revision	KNSr180/90-CZ2
7	Straight pipe 250 [mm]	RP180/250-CZ2
8	Ceramic chimney wall insert	WKCP180/200-CZ2



**Scheme III - Free-standing fireplace**

Example of a chimney connection with double-walled insert for traditional ceramic chimneys.

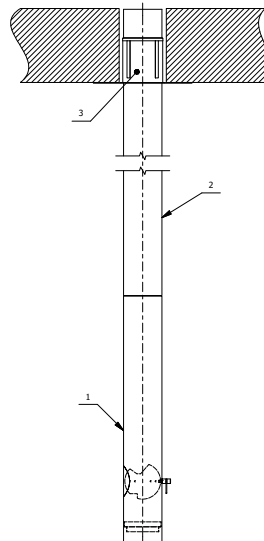
No	Name	Denotation
1	Solid elbow HIGH, polished, with damper and revision	KSrs-II-150/90-CZ2
2	Rosette	ROZ150-CZ
3	Double-walled wall insert	WD150-CZ



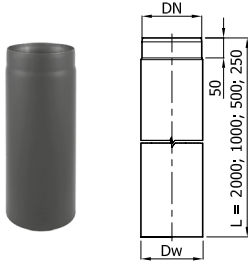
**Scheme IV - Free-standing fireplace (centre of room)**

Example construction of a chimney connection with a round plate with double-walled insert.

No	Name	Denotation
1	Straight pipe with anti-condensation protection, damper and revision	RPsr/ZA/150/500-CZ2
2	Straight pipe 2000 [mm]	RP150/2000-CZ2
3	Round roof plate with double-walled connection	PLo150-CZ2/WD



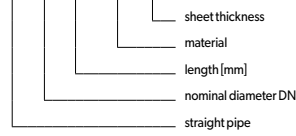
**1. STRAIGHT PIPE 2000, 1000, 500, 250 [mm] RP**



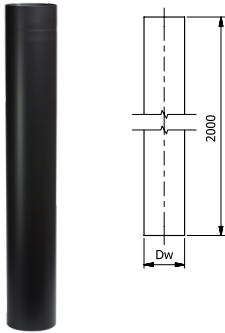
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
Weight [kg]	L=2000	12.40	13.40	15.40	16.40	18.40	20.50	22.40
	L=1000	6.20	6.70	7.70	8.20	9.20	10.25	11.20
	L=500	3.10	3.35	3.85	4.20	4.60	5.10	5.60
	L=250	1.55	1.70	1.95	2.10	2.30	2.55	2.80

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RP x / L - CZ 2**



**2. STRAIGHT PIPE 2000 [mm] FEMALE/FEMALE RP/FF**



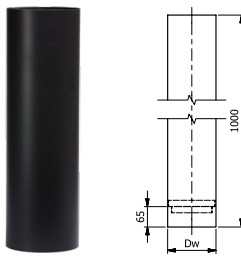
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
Weight [kg]	12.40	13.40	15.40	16.40	18.40	20.50	22.40	25.40

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RP x / 2000 - CZ 2 / FF**



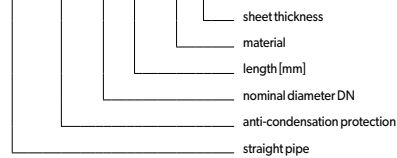
**3. STRAIGHT PIPE WITH ANTI-CONDENSATION PROTECTION 1000, 500 [mm] RP/ZA**



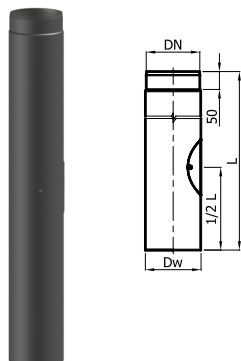
Diameter DN	ø120	ø130	ø150
Dw	121.0	131.0	151.0
Weight [kg] L=1000 mm	6.20	6.70	7.70

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RP / ZA / x / L - CZ 2**



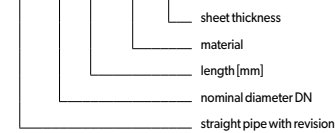
**4. STRAIGHT PIPE WITH REVISION 1000, 500, 250 [mm] RPr**



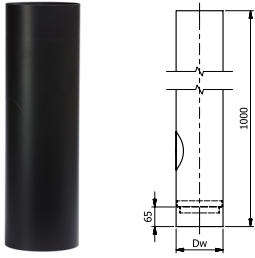
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
Weight [kg] L=1000 mm	1.55	1.70	1.95	2.10	2.30	2.55	2.80	3.18

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RPr x / L - CZ 2**



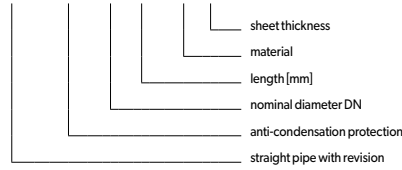
**5. STRAIGHT PIPE WITH ANTI-CONDENSATION PROTECTION AND REVISION 1000, 500 [mm] PRr/ZA**



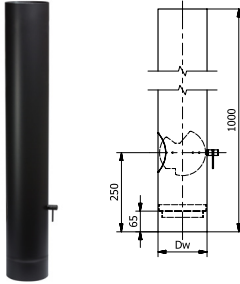
Diameter DN	ø120	ø130	ø150
Dw	121.0	131.0	151.0
Weight [kg] L = 1000 mm	6.30	6.80	7.80

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RPr / ZA / x / L - CZ 2**



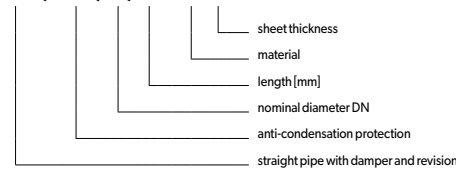
**6. STRAIGHT PIPE WITH ANTI-CONDENSATION PROTECTION, DAMPER AND REVISION 1000, 500 [mm] RPrs/ZA**



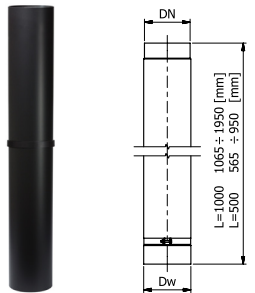
Diameter DN	ø120	ø130	ø150
Dw	121.0	131.0	151.0
Weight [kg] L = 1000 mm	6.50	6.90	7.90

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RPrs / ZA / x / L - CZ 2**



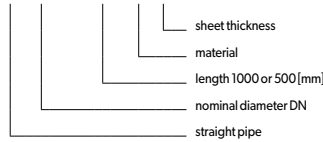
**7. STRAIGHT PIPE RT**



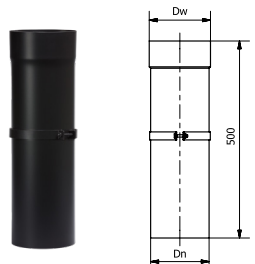
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
Weight [kg] for L1000	12.00	13.00	15.00	16.00	18.00	20.00	22.00	25.00
Weight [kg] for L500	6.00	6.50	7.50	8.00	9.00	10.00	11.00	22.50

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RT x / 2x L - CZ 2**



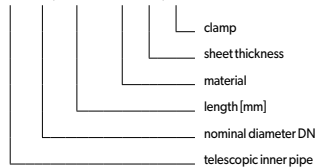
**8. TELESCOPIC INNER PIPE WITH CLAMP 1000, 500 [mm] RT/O**



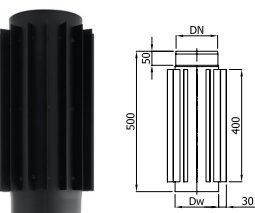
Diameter DN	ø120	ø130	ø150
Dw	121.0	131.0	151.0
Dn	118	128	148
Weight [kg] L = 500 mm	3.00	3.30	3.80

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**RT x / L - CZ 2 / O**



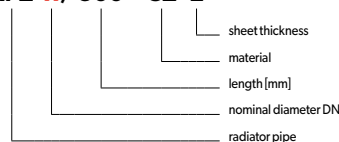
**9. RADIATOR PIPE 500 [mm] RPZ**



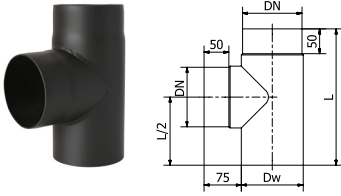
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
Weight [kg]	6.00	6.30	6.55	6.80	7.70	8.60	9.25	10.00

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.00 mm

**RPZ x / 500 - CZ 2**



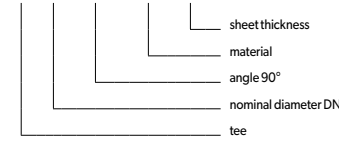
**10. TEE 90° TR/90**



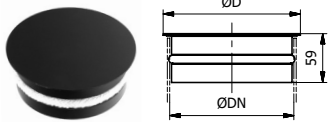
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
L [mm]	275	285	305	315	335	355	375	405
Weight [kg]	2.00	2.20	2.70	3.00	3.50	4.00	4.60	5.60

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**TR x/ 90 - CZ 2**



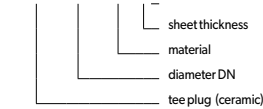
**11. TEE PLUG (CERAMIC)**



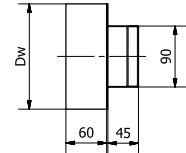
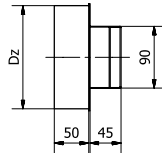
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
D	136	146	166	176	196	216	236	266
Weight [kg]	0.54	0.60	0.72	0.78	0.92	1.10	1.22	1.47

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**ZTSC x - CZ2**



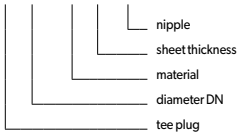
**12. TEE PLUG ZT-K/N**



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dz	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Weight [kg]	0.54	0.60	0.72	0.78	0.92	1.10	1.22	1.47

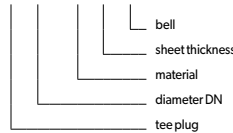
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	ø121	ø131	ø151	ø161	ø181	ø201	ø221	ø251
Weight [kg]	0.61	0.67	0.81	0.87	1.00	1.20	1.30	1.60

**ZT x - CZ2 - N**



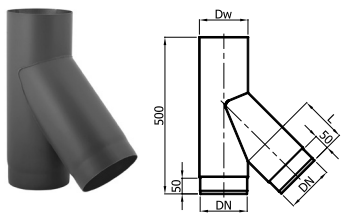
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**ZT x - CZ2 - K**



Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

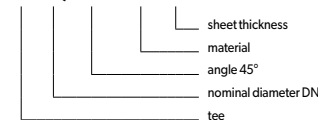
**13. TEE 45° TR/45**



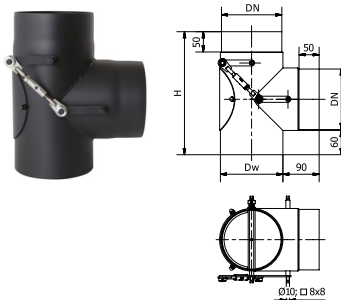
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
L [mm]	150.0	150.0	150.0	150.0	150.0	150.0	180.0	120.0
Weight [kg]	3.10	3.40	3.90	4.20	4.60	5.10	7.55	8.70

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**TR x/45 - CZ 2**



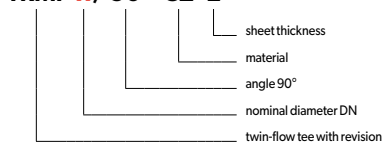
**14. TWIN-FLOW TEE WITH REVISION TRMr**



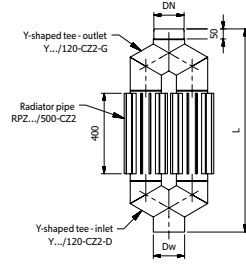
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121	131	151	161	181	201	221	251
H [mm]	275	285	305	315	335	355	375	405
Weight [kg]	3.10	3.40	4.00	4.40	5.10	6.00	6.80	8.10

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**TRMr x/ 90 - CZ 2**



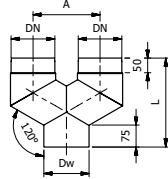
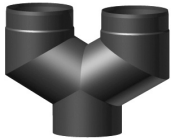
**15. Y-SHAPED TEE**



Diameter DN	ø150	ø160	ø180	ø200
Dw [mm]	151.0	161.0	181.0	201.0
L [mm]	1010	1030	1060	1096
Weight [kg]	21.20	22.50	25.90	29.50

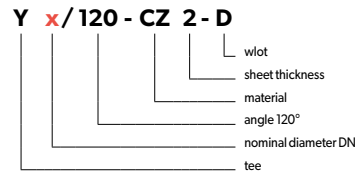
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**16. Y-SHAPED TEE - INLET**

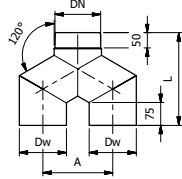
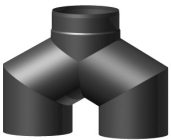


Diameter DN	ø150	ø160	ø180	ø200
Dw [mm]	151.0	161.0	181.0	201.0
L [mm]	305	315	331	348
Weight [kg]	4.05	4.45	5.25	6.15

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

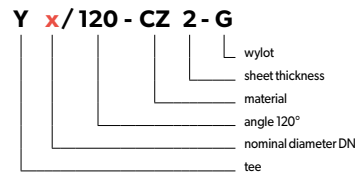


**17. Y-SHAPED TEE - OUTLET**

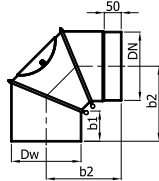


Diameter DN	ø150	ø160	ø180	ø200
Dw [mm]	151.0	161.0	181.0	201.0
L [mm]	305	315	331	348
Weight [kg]	4.05	4.45	5.25	6.15

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

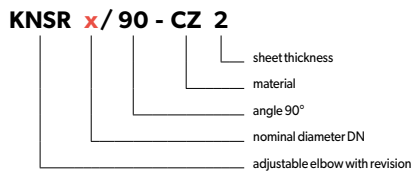


**18. ADJUSTABLE ELBOW 90° WITH REVISION KNSR/90**

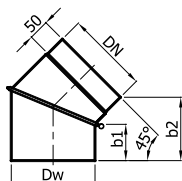


Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	84.0	86.0	85.0	85.0	82.0	73.0	83.0	83.0
b2 [mm]	220.0	220.0	224.5	220.0	219.0	221.0	273.0	270.0
Weight [kg]	2.80	3.00	3.40	3.80	4.10	4.50	6.0	6.80

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

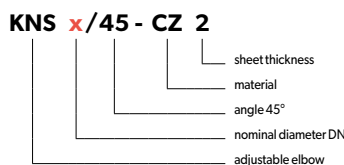


**19. ADJUSTABLE ELBOW 45° KNS/45**

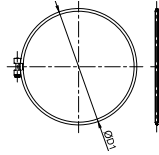


Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	84.0	86.0	85.0	85.0	82.0	73.0	83.0	83.0
b2 [mm]	172.0	170.0	162.0	158.0	151.0	144.0	165.0	165.0
Weight [kg]	1.80	1.90	2.10	2.20	2.35	2.50	3.30	3.30

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm



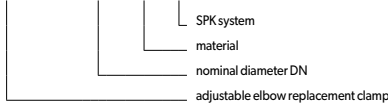
## 20. ADJUSTABLE ELBOW REPLACEMENT CLAMP; ADJUSTABLE ELBOW REPLACEMENT CERAMIC SEAL



Caution! Sold in sets of 2 pcs.

Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
D1	152	162	184	196	217	240	260	300
Weight [kg]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

### KNSR-OPASKA x - CZ 2



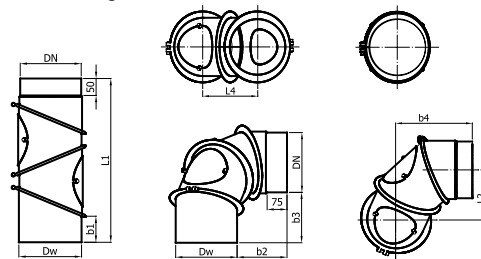
### KNSR-USZCZELKA - CZ2



## 21. ADJUSTABLE ELBOW WITH REVISION - 4 SEGMENTS KNSR/UNI

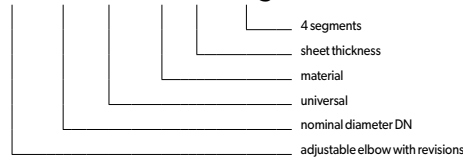


Available configurations



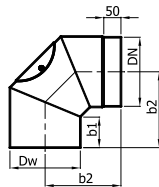
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	84.0	86.0	85.0	85.0	82.0	73.0	83.0	83.0
b2 [mm]	205.0	190.0	180.0	160.0	160.0	145.0	220.0	200.0
b3 [mm]	205.0	190.0	180.0	160.0	160.0	145.0	220.0	200.0
b4 [mm]	265.0	285.0	275.0	280.0	290.0	300.0	335.0	330.0
b5 [mm]	225.0	220.0	200.0	200.0	200.0	200.0	280.0	260.0
L1 [mm]	535.0	535.0	525.0	500.0	515.0	505.0	650.0	640.0
L2 [mm]	200.0	200.0	190.0	160.0	180.0	200.0	240.0	230.0
L3 [mm]	440.0	440.0	440.0	415.0	430.0	420.0	540.0	535.0
L4 [mm]	225.0	220.0	200.0	200.0	200.0	200.0	280.0	260.0
Weight [kg]	3.90	4.30	4.80	5.20	5.70	6.30	8.80	9.60

### KNSR x/UNI - CZ 2-4seg



Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

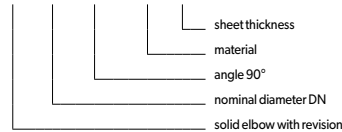
## 22. SOLID ELBOW 90° WITH REVISION KSr/90



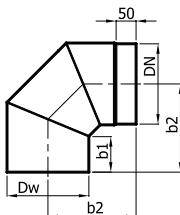
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	96.0	94.0	95.0	95.0	87.0	84.0	95.0	95.0
b2 [mm]	243.0	243.0	241.0	240.0	242.0	241.0	271.0	292.0
Weight [kg]	2.80	3.00	3.40	3.60	4.10	4.50	6.0	6.80

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### KSr x/90 - CZ 2



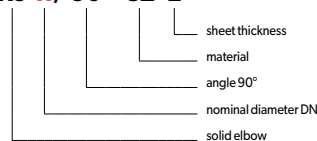
## 23. SOLID ELBOW 90° KS/90



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	96.0	94.0	95.0	95.0	87.0	84.0	95.0	95.0
b2 [mm]	243.0	243.0	241.0	240.0	242.0	241.0	271.0	292.0
Weight [kg]	2.80	3.00	3.40	3.60	4.10	4.50	6.00	6.80

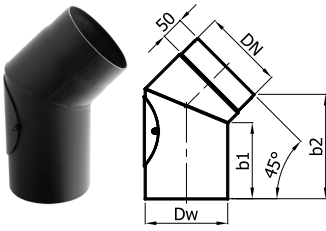
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### KS x/90 - CZ 2





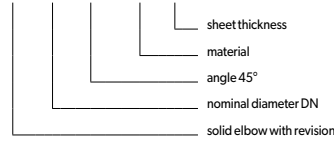
**24. SOLID ELBOW 45° WITH REVISION KSr/45**



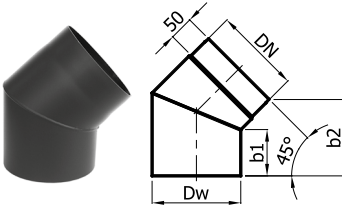
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	187.0	184.0	174.0	170.0	170.0	165.0	145.0	132.0
b2 [mm]	258.0	254.0	245.0	241.0	235.0	228.0	216.0	204.0
Weight [kg]	2.10	2.30	2.60	2.80	3.10	3.50	3.80	4.30

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**KSr x/45 - CZ 2**



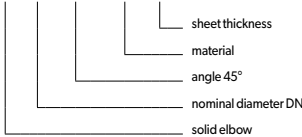
**25. SOLID ELBOW 45° KS/45**



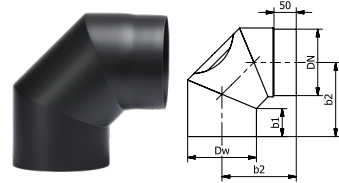
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	96	94.0	95.0	95.0	87.0	84.0	95.0	95.0
b2 [mm]	172.0	170.0	162.0	158.0	151.0	144.0	165.0	165.0
Weight [kg]	1.80	1.90	2.10	2.20	2.35	2.50	3.33	3.90

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

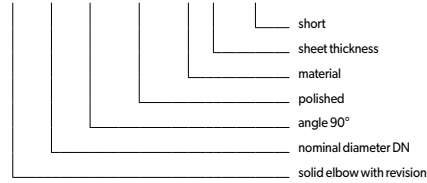
**KS x/45 - CZ 2**



**26. SOLID ELBOW 90° 3-SEGMENTS, POLISHED WITH REVISION, SHORT VERSION KSr/KR**



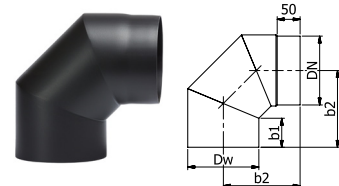
**KSr x/90 - SzL - CZ2 / KR**



Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
b1 [mm]	61	62	63.5
b2 [mm]	167.5	167.5	167.5
Weight [kg]	1.90	2.00	2.30

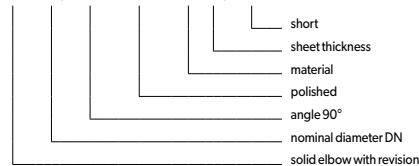
**27. SOLID POLISHED ELBOW 90° 3-SEGMENTS, SHORT VERSION KS/KR**



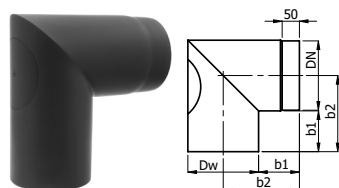
Diameter DN	ø120	ø130	ø150
Dw [mm]	121	131	151
b1 [mm]	61	62	63.5
b2 [mm]	167.5	167.5	167.5
Weight [kg]	1.75	1.95	2.20

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**KS x/90 - SzL - CZ2 / KR**



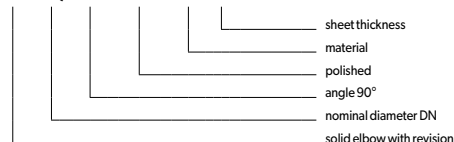
**28. SOLID POLISHED ELBOW 90° WITH REVISION KSr/90**



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	145	145	145	145	145	145	145	145
b2 [mm]	207.5	212.5	222.5	227.5	237.5	247.5	257.5	272.5
Weight [kg]	2.60	2.90	3.50	3.80	4.40	5.10	5.80	6.90

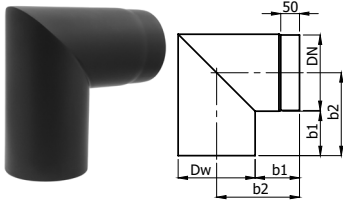
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**KSr x/90 - SzL - CZ 2-2SEG**





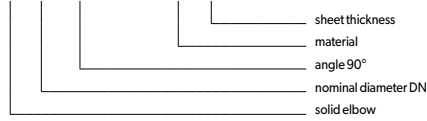
### 29. SOLID POLISHED ELBOW 90° KS/90



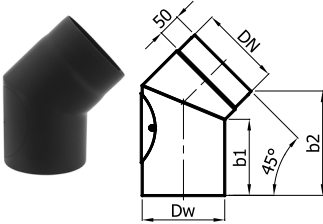
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	145	145	145	145	145	145	145	145
b2 [mm]	207.5	212.5	222.5	227.5	237.5	247.5	257.5	272.5
Weight [kg]	2.60	2.90	3.50	3.80	4.40	5.10	5.80	6.90

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

#### KS x/90 - SzL - CZ 2-2SEG



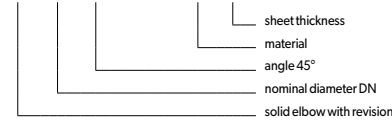
### 30. SOLID POLISHED ELBOW 45° WITH REVISION KSr/45



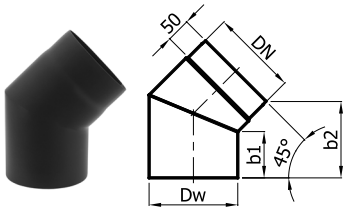
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	187.0	184.0	174.0	170.0	170.0	165.0	145.0	132.0
b2 [mm]	258.0	254.0	245.0	241.0	235.0	228.0	216.0	204.0
Weight [kg]	2.10	2.30	2.60	2.80	3.10	3.50	3.80	4.30

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

#### KSr x/45 - SzL - CZ 2



### 31. SOLID POLISHED ELBOW 45° KS/45



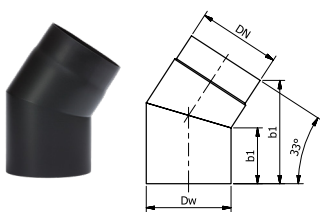
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
b1 [mm]	96	94.0	95.0	95.0	87.0	84.0	95.0	95.0
b2 [mm]	172.0	170.0	162.0	158.0	151.0	144.0	165.0	165.0
Weight [kg]	1.80	1.90	2.10	2.20	2.35	2.50	3.33	3.90

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

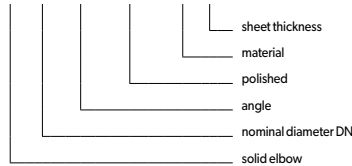
#### KS x/45 - SzL - CZ 2



### 32. SOLID POLISHED ELBOW 33° KS/33



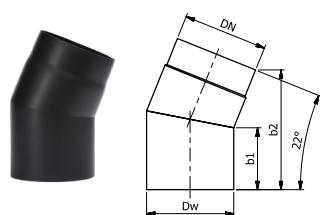
#### KS x/33 - SzL - CZ 2



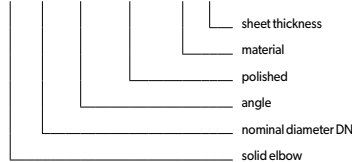
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
b1 [mm]	106.5	105	102
b2 [mm]	197	195	189
Weight [kg]	1.50	1.70	1.90

### 33. SOLID POLISHED ELBOW 22° KS/22



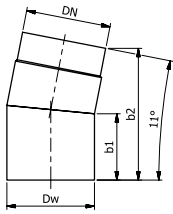
#### KS x/22 - SzL - CZ 2



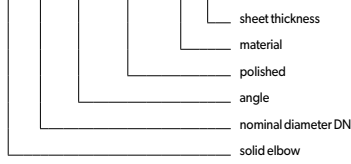
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
b1 [mm]	113	112	110
b2 [mm]	219	217	213
Weight [kg]	1.50	1.70	1.90

**34. SOLID POLISHED ELBOW 11° KS/11**



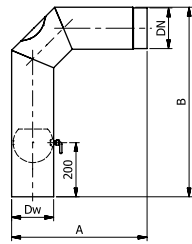
**KS x/ 11 - SzL - CZ 2**



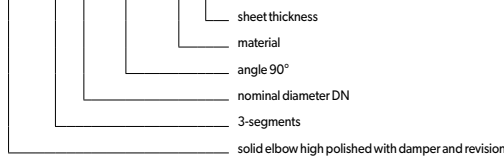
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
b1 [mm]	119	118.5	117.5
b2 [mm]	236	235	233
Weight [kg]	1.50	1.70	1.90

**35. SOLID ELBOW HIGH 90° 3-SEGMENTS, POLISHED WITH DAMPER AND REVISION KSrs - III**



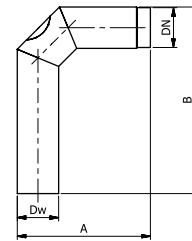
**KSrs-III-x/ 90 - CZ 2**



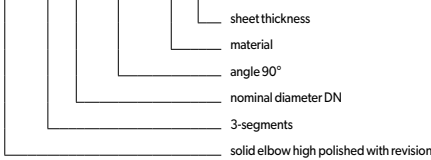
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
A [mm]	500	500	500
B [mm]	700	700	700
Weight [kg]	6.50	7.00	8.00

**36. SOLID ELBOW HIGH 90° 3-SEGMENTS, POLISHED WITH REVISION KSr - III**



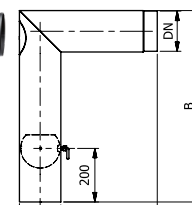
**KSr-III-x/ 90 - CZ 2**



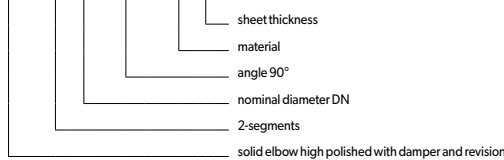
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
A [mm]	500	500	500
B [mm]	700	700	700
Weight [kg]	6.00	6.50	7.50

**37. SOLID ELBOW HIGH 90° 2-SEGMENTS, POLISHED WITH DAMPER AND REVISION KSrs - II**



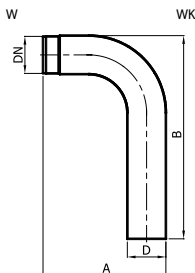
**KSrs- II -x/ 90 - CZ 2**



Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

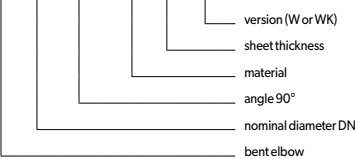
Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
A [mm]	500	505	515
B [mm]	700	705	715
Weight [kg]	7.00	7.50	9.50

**38. BENT ELBOW - HIGH, HIGH-SHORT KG**



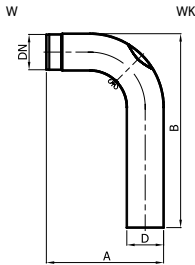
Version	W (high)			WK (high-short)		
Diameter DN	ø120	ø130	ø150	ø120	ø130	ø150
øD [mm]	125.0	135.0	155.0	125.0	135.0	155.0
øDk [mm]	120.0	130.0	150.0	120.0	130.0	150.0
A [mm]	398.0	420.0	460.0	318.0	340.0	380.0
B [mm]	645.0	640.0	645.0	645.0	640.0	645.0
Weight [kg]	5.10	5.50	6.60	4.70	5.00	6.00

**KG x/ 90 - CZ 2/ ...**



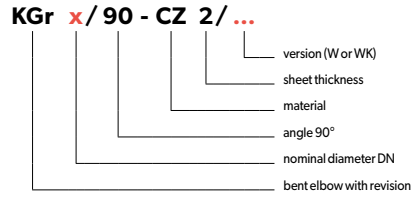
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 39. BENT ELBOW - HIGH, HIGH-SHORT WITH REVISION

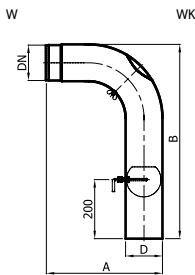


Version	W (high)			WK (high-short)		
Diameter DN	ø120	ø130	ø150	ø120	ø130	ø150
øD [mm]	125.0	135.0	155.0	125.0	135.0	155.0
øDk [mm]	120.0	130.0	150.0	120.0	130.0	150.0
A [mm]	398.0	420.0	460.0	318.0	340.0	380.0
B [mm]	645.0	640.0	645.0	645.0	640.0	645.0
Weight [kg]	5.20	5.60	6.70	4.70	5.00	6.10

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

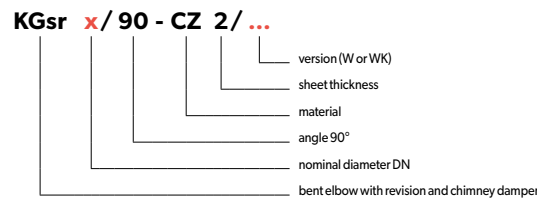


### 40. BENT ELBOW - HIGH, HIGH-SHORT WITH REVISION AND CHIMNEY DAMPER KGSR

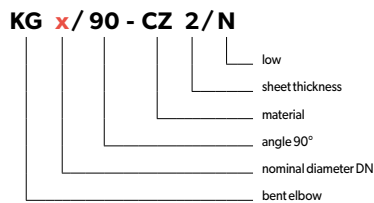
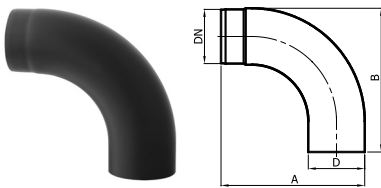


Version	W (high)			WK (high-short)		
Diameter DN	ø120	ø130	ø150	ø120	ø130	ø150
øD [mm]	125.0	135.0	155.0	125.0	135.0	155.0
øDk [mm]	120.0	130.0	150.0	120.0	130.0	150.0
A [mm]	398.0	420.0	460.0	318.0	340.0	380.0
B [mm]	645.0	640.0	645.0	645.0	640.0	645.0
Weight [kg]	5.50	5.80	7.00	5.00	5.30	6.40

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm



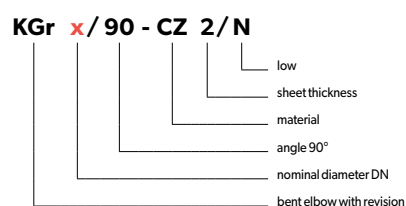
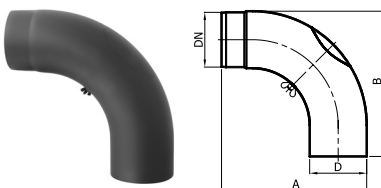
### 41. BENT ELBOW LOW KG



Diameter DN	ø120	ø130	ø150
øD [mm]	125.0	135.0	155.0
øDk [mm]	120.0	130.0	150.0
A [mm]	318.0	340.0	380.0
B [mm]	318.0	340.0	380.0
Weight [kg]	2.60	3.00	3.80

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

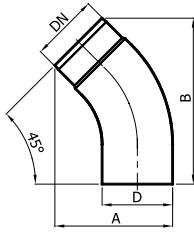
### 42. BENT ELBOW LOW WITH REVISION KGR



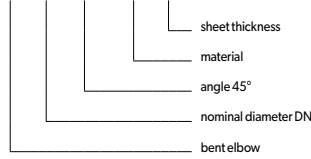
Diameter DN	ø120	ø130	ø150
øD [mm]	125.0	135.0	155.0
øDk [mm]	120.0	130.0	150.0
A [mm]	318.0	340.0	380.0
B [mm]	318.0	340.0	380.0
Weight [kg]	2.70	3.10	3.90

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 43. BENT ELBOW 45° KG



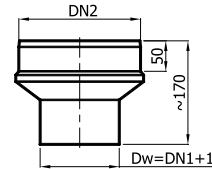
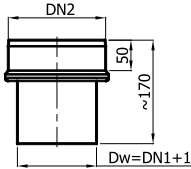
**KG x/45 - CZ 2**



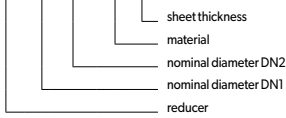
Diameter DN	ø120	ø130	ø150
øD [mm]	125.0	135.0	155.0
øDk [mm]	120.0	130.0	150.0
A [mm]	208.0	222.0	248.0
B [mm]	294.0	308.0	336.0
Weight [kg]	1.70	1.90	2.40

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 44. REDUCERS RD



**RD x/y - CZ 2**



**RD x/y - CZ 2 - S**

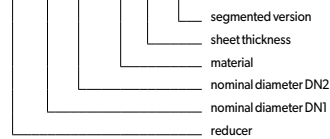


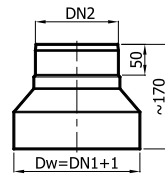
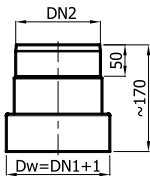
Table of versions and available diameters

Diameter DNI	Diameter DN2							
	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
ø120		R	R	R	S	S	S	S
ø130	R		R	R	R	S	S	S
ø150	R	R		R	R	R	S	S
ø160	R	R	R		R	R	S	S
ø180	S	R	R	R		R	R	S
ø200	S	S	R	R	R		R	R
ø220	S	S	S	S	R	R		R
ø250	S	S	S	S	S	R	R	
ø300	S	S	S	S	S	S	S	S

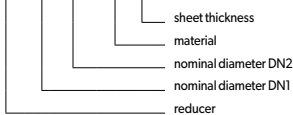
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

ex: RD130/120-CZ2, RD120/130-CZ2,  
RD120/200-CZ2-S  
S - redukcje segmentowe  
R - redukcje rozpęczane

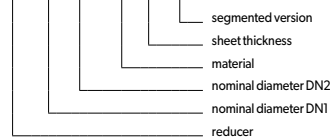
### 45. REDUCERS RD



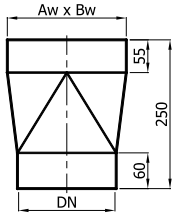
**RD x/y - CZ 2**



**RD x/y - CZ 2 - S**

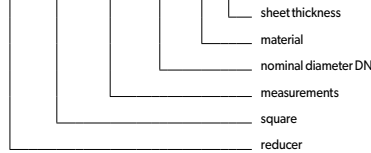


### 46. REDUCER RDKW



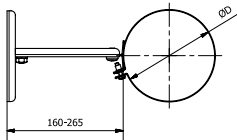
Measurements Aw x Bw [mm]	122 x 122	135 x 189	142 x 142	142 x 162	152 x 152	162 x 162	171 x 171	180 x 180	192 x 192	200 x 200	
Diameter DN	ø120	1.80 kg	-	-	-	-	-	-	-	-	
	ø130	1.85 kg	-	2.00 kg	-	2.05 kg	-	-	-	-	
	ø150	1.95 kg	-	2.10 kg	-	2.10 kg	2.30 kg	2.35 kg	2.40 kg	-	
	ø160	-	-	2.15 kg	-	2.15 kg	2.40 kg	2.45 kg	2.50 kg	2.60 kg	2.70 kg
	ø180	-	2.70 kg	2.25 kg	2.40 kg	2.30 kg	2.50 kg	2.55 kg	2.60 kg	2.70 kg	2.80 kg
	ø200	-	2.90 kg	2.35 kg	-	2.45 kg	2.60 kg	2.65 kg	2.70 kg	2.80 kg	2.90 kg

**RD kw Ax B / x - CZ 2**



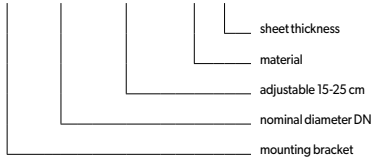
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 47. MOUNTING BRACKET



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
D [mm]	125	135	155	165	185	205	225	255
Weight [kg]	0.44	0.45	0.47	0.48	0.50	0.52	0.54	0.57

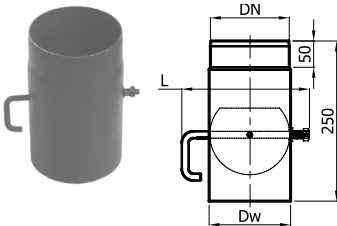
**OMD-I ... / 15-25 - CZ 2**



Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Not to use with flammable materials.

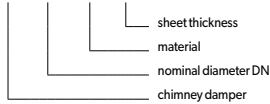
### 48. CHIMNEY DAMPER WITH SHORT HANDLE SZK



Chimney dampers are produced in versions:

- with long handle for diameters 180, 200, 220 and 250
- with short handle 120, 130, 150 and 160

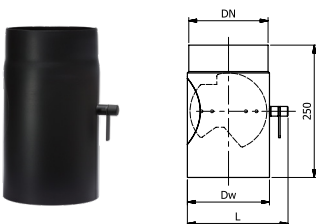
**SZK x - CZ 2**



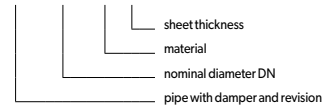
Diameter DN	ø120	ø130	ø150	ø160
Dw [mm]	121.0	131.0	151.0	161.0
L [mm]	193.0	203.0	223.0	223.0
Weight [kg]	1.90	2.05	2.40	2.50

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 49. CHIMNEY DAMPER WITH REVISION SZKr



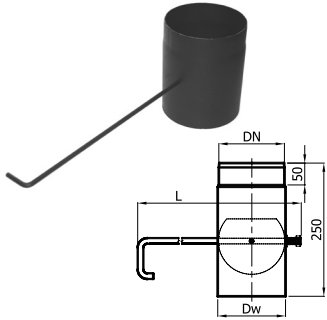
**SZKr x - CZ 2**



Diameter DN	ø120	ø130	ø150
Dw [mm]	121.0	131.0	151.0
L [mm]	160	170	190
Weight [kg]	1.65	1.95	2.25

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

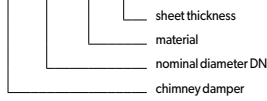
### 50. CHIMNEY DAMPER WITH LONG HANDLE SZK



Chimney dampers are produced in versions:

- with long handle for diameters 180, 200, 220 and 250
- with short handle 120, 130, 150 and 160

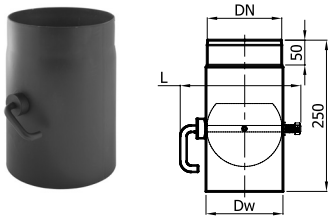
#### SZK x - CZ 2



Diameter DN	ø180	ø200	ø220	ø250
Dw [mm]	181.0	201.0	221.0	251.0
L [mm]	690.0	710.0	730.0	760.0
Weight [kg]	3.40	3.60	3.90	4.30

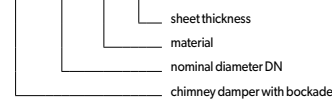
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 51. CHIMNEY DAMPER WITH BLOCKADE SZKB



In standard version damper is produced with short handle.

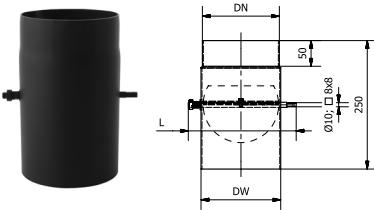
#### SZKB x - CZ 2



Diameter DN	ø120	ø130	ø150	ø160
Dw [mm]	121.0	131.0	151.0	161.0
L [mm]	193.0	203.0	223.0	223.0
Weight [kg]	1.90	2.10	2.40	2.55

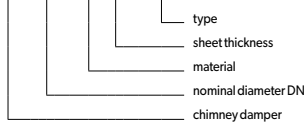
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 52. CHIMNEY DAMPER SZK 8x8



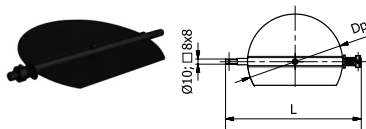
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	121.0	131.0	151.0	161.0	181.0	201.0	221.0	251.0
L [mm]	180	190	210	220	240	260	280	310
Weight [kg]	1.65	1.95	2.25	2.41	2.76	3.10	3.47	4.00

#### SZK x - CZ 2 - 8x8



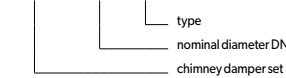
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 53. CHIMNEY DAMPER SET SZK-SET 8x8



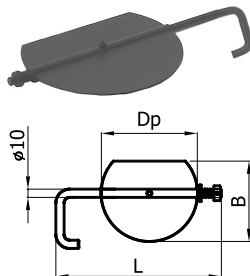
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dp [mm]	117	127	147	157	177	197	217	247
L [mm]	180	190	210	220	240	260	280	310
Weight [kg]	0.28	0.32	0.37	0.41	0.51	0.59	0.73	0.91

#### SZK-SET x - 8x8



Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

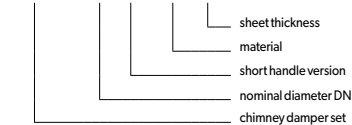
### 54. CHIMNEY DAMPER „DO IT YOURSELF“ SET WITH SHORT HANDLE SZK-SET



Chimney dampers are produced in versions:

- with long handle for diameters 180, 200, 220 and 250
- with short handle 120, 130, 150 and 160

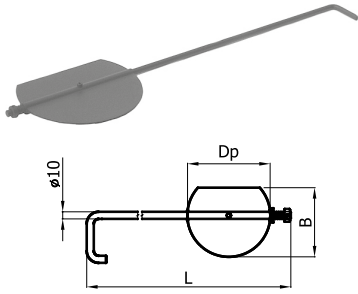
#### SZK-SET x - K - CZ 2



Diameter DN	ø120	ø130	ø150	ø160
B [mm]	97.5	105.0	110.0	118.0
Dp [mm]	117.0	127.0	147.0	157.0
L [mm]	193.0	203.0	223.0	223.0
Weight [kg]	1.65	1.80	2.00	2.20

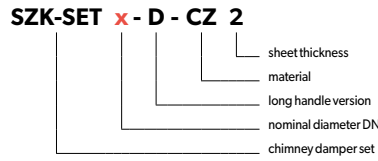
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 55. CHIMNEY DAMPER „DO IT YOURSELF“ SET WITH LONG HANDLE SZK-SET



Chimney dampers are produced in versions:

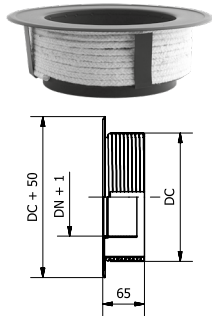
- with long handle for diameters 180, 200, 220 and 250
- with short handle 120, 130, 150 and 160



Diameter DN	ø180	ø200
B [mm]	142.5	154.5
Dp [mm]	177.0	197.0
L [mm]	690.0	710.0
Weight [kg]	2.70	3.00

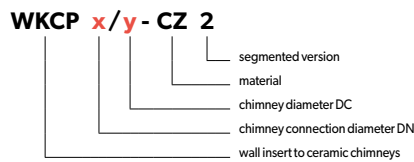
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

### 56. WALL INSERT TO CERAMIC CHIMNEYS WKCP

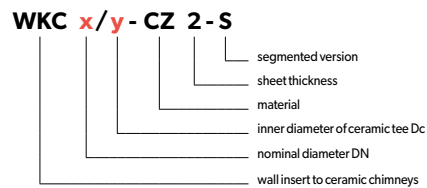
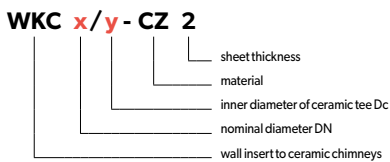
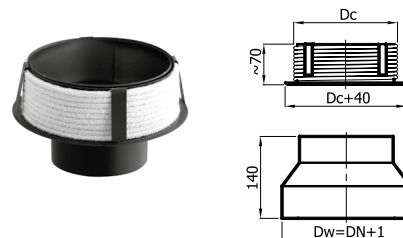
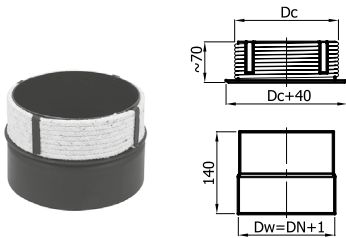


Diameter DC	ø150	ø160	ø180	ø200	ø220	ø250
ø120	WKCP	WKCP	WKCP	WKCP	WKCP	WKCP
ø130	-	WKCP	WKCP	WKCP	WKCP	WKCP
ø150	-	-	WKCP	WKCP	WKCP	WKCP
ø160	-	-	-	WKCP	WKCP	WKCP
ø180	-	-	-	-	WKCP	WKCP
ø200	-	-	-	-	-	WKCP
ø220	-	-	-	-	-	WKCP

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm



### 57. WALL INSERTS TO CERAMIC CHIMNEYS WKC; WKC-S



This wall insert protects tees of ceramic chimneys from damages caused by thermal expansion of metal elements of the chimney connection.

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

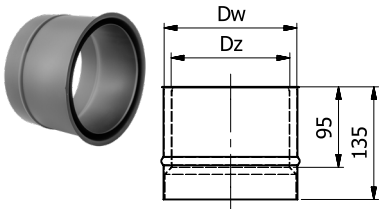
#### Table of versions and available sets

Diameter DN	Diameter DC																	
	ø120		ø130		ø140		ø150		ø160		ø180		ø200		ø220		ø250	
	Version	Weight [kg]	Version	Weight [kg]	Version	Weight [kg]	Version	Weight [kg]	Version	Weight [kg]	Version	Weight [kg]	Version	Weight [kg]	Version	Weight [kg]	Version	Weight [kg]
ø120	R	1.10	R	1.15	R	1.30	R	1.30	R	1.40	R	1.60	S	1.85	S	-	S	-
ø130	R	1.15	R	1.20	R	1.35	R	1.35	R	1.50	R	1.60	R	1.65	S	-	S	-
ø150	R	1.25	R	1.30	R	1.40	R	1.50	R	1.60	R	1.65	R	1.70	R	1.90	S	-
ø160	S	1.70	S	1.75	R	1.50	R	1.60	R	1.65	R	1.70	R	1.75	R	1.90	R	1.95
ø180	S	1.85	S	1.90	S	1.95	S	2.00	R	1.75	R	1.80	R	1.85	R	2.00	R	2.00
ø200	S	1.95	S	2.00	S	2.05	S	2.10	S	2.15	R	1.90	R	1.95	R	2.05	R	2.05
ø220	S	-	S	-	S	-	S	-	S	-	R	2.00	R	2.05	R	2.10	R	2.20
ø250	S	-	S	-	S	-	S	-	S	-	S	-	S	2.35	R	2.20	R	2.30

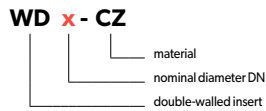
S - segmented version  
R - redukcje rozpięzane



### 58. DOUBLE - WALLED WALL INSERT WD



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dz [mm]	110.0	120.0	140.0	150.0	170.0	190.0	210.0	240.0
Dw [mm]	128.0	138.0	158.0	168.0	188.0	208.0	228.0	258.0
Weight [kg]	0.65	0.70	0.85	0.90	1.00	1.10	1.20	1.25

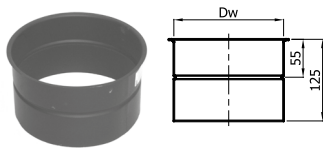


Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	8	8 - sheet thickness 0.8 mm

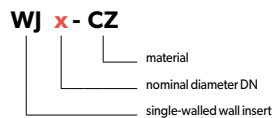
**Caution!**

Double-walled insert is used to secure connection of the SPK element to chimney duct with metal insert.

### 59. SINGLE-WALLED WALL INSERT WJ

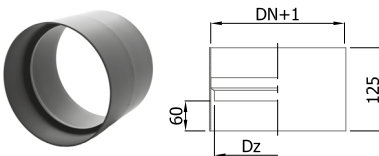


Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dz [mm]	128.0	138.0	158.0	168.0	188.0	208.0	228.0	258.0
Weight [kg]	0.30	0.35	0.40	0.42	0.45	0.50	0.55	0.60

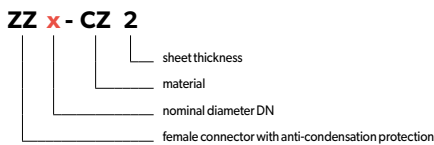


Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	8	8 - sheet thickness 0.8 mm

### 60. FEMALE CONNECTOR WITH ANTI-CONDENSATION PROTECTION ZZ



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dz [mm]	110.0	120.0	140.0	150.0	170.0	190.0	210.0	240.0
Weight [kg]	0.95	1.10	1.20	1.30	1.45	1.60	1.75	1.90

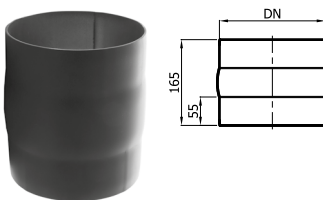


Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

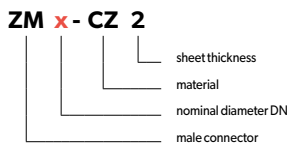
**Caution!**

Female connector allows to connect two press-formed elements to each other and divert the connection schema.

### 61. MALE CONNECTOR ZM



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Weight [kg]	0.40	0.45	0.50	0.55	0.60	0.70	0.80	0.90

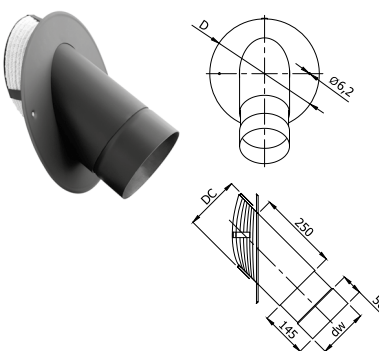


Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

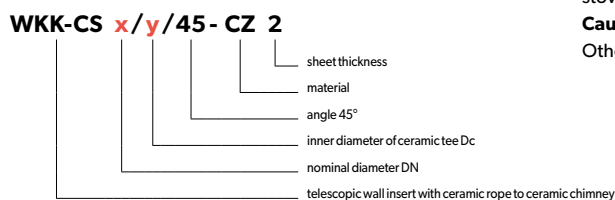
**Caution!**

Male connector allows to connect the on site cut pipe elements to other elements of the SPK system.

### 62. TELESCOPIC WALL INSERT WITH CERAMIC ROPE TO CERAMIC CHIMNEY WKK-CS



Diameter DN	ø150	ø150	ø180
Dc	180.0	200.0	200.0
D	340.0	360.0	360.0
dw	151	151	181
Weight [kg]	2.95	3.20	3.20



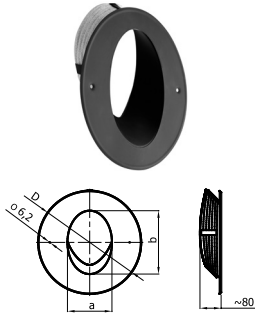
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Telescopic wall insert allows to connect the stove/fireplace to the chimney at 45° angle

**Caution!**

Other inserts upon individual order

### 63. ANGULAR WALL INSERT WITH CERAMIC ROPE WKK-KS (TO BE BUILT IN)



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
a [mm]	130.0	140.0	160.0	170.0	190.0	210.0	230.0	260.0
b [mm]	184.0	198.0	226.0	240.0	269.0	297.0	325.0	368.0
Diameter D	280	290	310	320	340	360	380	410
Weight [kg]	0.95	1.10	1.20	1.35	1.45	1.60	1.75	2.00

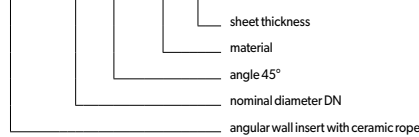
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Angular insert allows to connect the stove/ fireplace to the chimney at 45° angle.

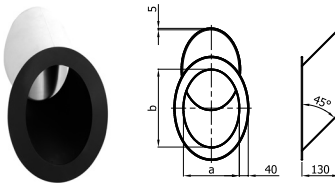
**Caution!**

Pipe element ending that is put into the WKK-KS wall insert should be cut at the proper angle, so the pipe does not go into chimney duct causing an obstruction.

**WKK-KS x /45 - CZ 2**



### 64. ANGULAR WALL INSERT WITH INSULATION WKK (TO BE BUILT IN)



Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
a [mm]	130.0	140.0	160.0	170.0	190.0	210.0	230.0	260.0
b [mm]	184.0	198.0	226.0	240.0	269.0	297.0	325.0	368.0
Weight [kg]	0.95	1.10	1.20	1.35	1.45	1.60	1.75	1.90

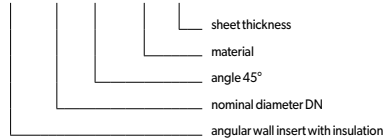
Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

Angular wall insert allows to connect the stove to a chimney at 45° angle. Thermal insulation protects ceramic chimneys from damages caused by thermal expansion of metal elements.

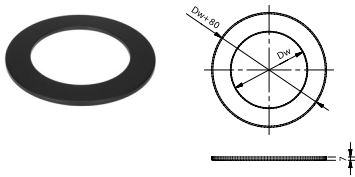
**Caution!**

Pipe element ending that is put into the WKK wall insert should be cut at the proper angle, so the pipe does not go into chimney duct causing an obstruction.

**WKK x /45 - CZ 2**



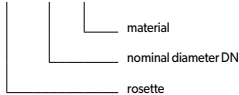
### 65. ROSETTE ROZ



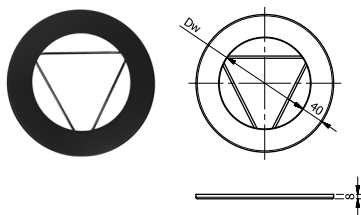
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	127	137	157	167	187	207	227	257
Weight [kg]	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	6	6 - sheet thickness 0.6 mm

**ROZ x CZ**



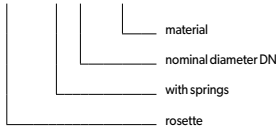
### 66. ROSETTE WITH SPRINGS ROZ/S



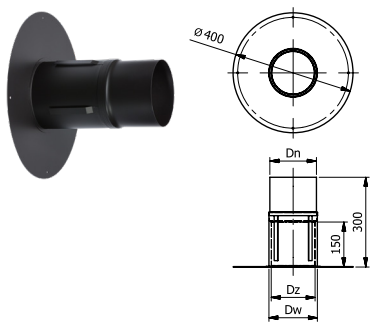
Diameter DN	ø120	ø130	ø150	ø160	ø180	ø200	ø220	ø250
Dw [mm]	127	137	157	167	187	207	227	257
Weight [kg]	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	6	6 - sheet thickness 0,6 mm

**ROZ / S x - CZ**



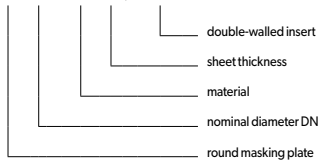
**67. ROUND MASKING PLATE Ø400 WITH DOUBLE-WALLED INSERT PLo/WD**



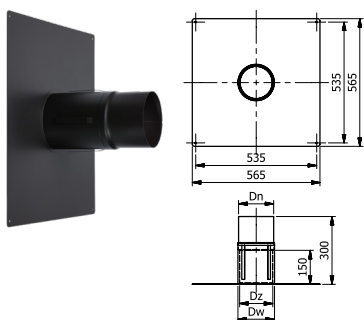
Diameter DN	ø120	ø130	ø150
Dw [mm]	117	127	147
Dz [mm]	130	140	160
Dn [mm]	125	135	155
Weight [kg]	4.90	5.00	5.10

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**PLo x - CZ 2 / WD**



**68. SQUARE MASKING PLATE #565x565 WITH DOUBLE-WALLED INSERT PLkw/WD**



Diameter DN	ø120	ø130	ø150
Dw [mm]	117	127	147
Dz [mm]	130	140	160
Dn [mm]	125	135	155
Weight [kg]	4.90	5.00	5.10

Destination	D	D - smoke ducts
Material	CZ	CZ - mild steel DC01
Sheet thickness s	2	2 - sheet thickness 2.0 mm

**PLkw x - CZ 2 / WD**

