

Darco system



Vertical Flue System - SPOS

The vertical flue system allows the chimney to be built directly above the fireplace's hearth. In this case, the function of the cleanout and condensate removal is fulfilled by the hearth. The SPOS system uses typical elements of double-walled chimneys SKDZ and chimney connections SPK. When designing this type of chimney, current national regulations must be taken into account.

Application: In newly built or modernised buildings where there is no free flue chimney

Caution! In particular, the distances from combustible parts must be kept and suitable roof flashings must be used at the roof crossing points.

Distances from combustible elements:

- SKDZ system elements - 100 mm
- Chimney connection elements SPK - 500 mm

Examples of configurations

I. Version with passage through several storeys.

The chimney passes through the timber ceiling and the next storey. Roof insulated with rock wool and ceiling lined with plasterboard on the inside.



N°	Symbol	Name	Chimney System
1	DKD-II-...-Z8 or /ML	Cap with openable top	SKDZ
2	RPDZ-...-Z8 or /ML	Straight pipe	SKDZ
3	WPDZ/Z8 or /ML	Roof base	SPOS
4	PPD-...-Z8	Intermediate support	SKDZ
5	KWD-II-...-X	Supporting console	SKDZ
6	ZTDZ-...-Z8-N-II	Tee plug	SPOS
7	ROZ-...-WPDZ-ML	Rosette	SPOS
8	OP-IV-...-X or /ML	Securing clamp	SKDZ
9	RP-...-CZ2	Straight pipe	SPK
10	ZZ-...-CZ2	Female connector	SPK

II. Version with 90 degrees tee with passage through roof and ceiling.

The chimney passes through the timber ceiling and the next storey. The roof is insulated with rock wool and the ceiling is lined with plasterboard on the inside. A connection to the chimney via a 90 degrees tee was used in this case.

A chimney with a cleanout and a condensate drain bowl ensures that soot and any condensate will not flow directly into the fireplace.

N°	Symbol	Name	Chimney System
1	DKD-II-...-Z8 or /ML	Cap with openable top	SKDZ
2	RPDZ-...-Z8 or /ML	Straight pipe	SKDZ
3	WPDZ/Z8 or /ML	Roof base	SPOS
4	TRDZ-...-Z8-II	Tee	SKDZ
5	WCDZ-...-Z8	Clean out element with doors	SKDZ
6	MSDZ-...-Z8	Condensate drain bowl	SKDZ
7	KSDZ-...-90-Z8	Solid elbow	SKDZ
8	PPD-...-Z8	Intermediate support	SKDZ
9	KWD-II-...-X	Supporting console	SKDZ
10	ZTDZ-...-Z8-N-II	Tee plug	SPOS
11	ROZ-...-WPDZ-ML	Rosette	SPOS
12	OP-IV-...-X	Securing clamp	SKDZ
13	RP-.../1,0-CZ2	Straight pipe	SPK
14	ZZ-...-CZ2	Female connector	SPK



III. Version with passage directly through the roof.

The chimney goes directly through the rock wool insulated roof and the ceiling is lined with wood panels on the inside.

N°	Symbol	Name	Chimney System
1	DKD-II-...-Z8 or /ML	Cap with openable top	SKDZ
2	RPDZ...-...-Z8 or /ML	Straight pipe	SKDZ
3	WPDT/Z8 or /ML	Roof base	SPOS
4	ZTDZ...-...-Z8-N-II	Tee plug	SPOS
5	ROZ...-...-CZ2 /WPDT/...-st/ML	Angular rosette	SPOS
6	OP-IV-...-X or /ML	Securing clamp	SKDZ
7	RP-.../2,0-CZ2	Straight pipe	SPK
8	RPts/ZA.../1,0-CZ2	Straight pipe with anti-condensation protection, damper and revision	SPK



Technical data:

Detailed data and parameters can be found in the data sheets respectively:

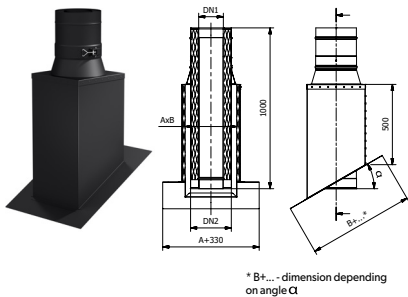
SPK - Chimney Connection System SPK

SKDZ - Heat Resistant Double-Walled Chimney System SKD_SKDZ

SPOS - Vertical Flue System

SPOS Vertical Flue System components

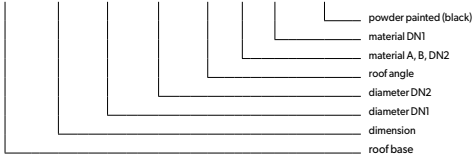
1. ROOF BASE WPDT/Z8



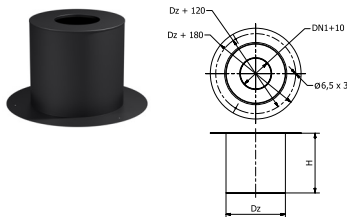
Diameter DN1/DN2	150 250	160 260	180 280	200 300
A [mm]	320	320	370	370
B [mm]	320	320	370	370
Weight [kg]	weight depends on the roof angle			

Destination	D	D - smoke ducts
Material	Z	Z - heat resistant sheet 1.4828
Sheet thickness s	8	8 - sheet thickness 0.8 mm

WPDT AxB / DN1 / DN2 / ...st - X / Z8-ML.CZ



2. ROSETTE ROZ/WPDT



Diameter DN1/DN2	150 250	160 260	180 280	200 300
H [mm]	300	300	300	300
Dz [mm]	310	320	340	360
Weight [kg]	3.60	3.70	3.95	4.15

Destination	D	D - smoke ducts
Material	Z	Z - heat resistant sheet 1.4828
Sheet thickness s	8	8 - sheet thickness 0.8 mm

ROZ DN1 / DN2 / WPDT-ML.CZ

