

**KRASO® Casing Type FL/ZA**  
for dowel-fixing - non-corrosive  
stainless steel - with special coating

- threaded protective caps protect the threaded bolts against contamination with thick coating
- spacers prevent the thick coating from being pressed off



## KRASO® Casing and Sealing Insert Type FL

### Fixed-loose flange for dowel-fixing or for concreting and as a sealing insert

- + For buildings with exterior sealing (“black tank”): according to DIN 18533 (“sealing of below-ground structural elements”)
- + Each design available as separate types for pressing and non-pressing water
- + Available in non-corrosive stainless steel V2A or V4A and in electrogalvanised steel!
- + Upon request available with special coating for buildings with thick coating (e.g. KMB)!
- + DIN 18533: water exposure classes W1 -E and W2.2 -E (“soil moisture and non-pressing water” or “high impact of pressing water (water column  $\geq 3$  metres)“)

**KRASO® Casing Type FL/ZA**  
- for dowel-fixing -



non-corrosive stainless steel V2A

**KRASO® Casing Type FL/ZE**  
- for concreting -



non-corrosive stainless steel V2A

**KRASO® Sealing Insert Type FL/DD**  
- double sealing -



non-corrosive stainless steel V2A



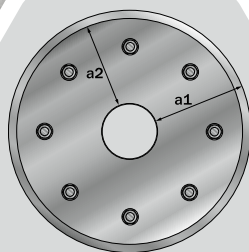
electrogalvanised



electrogalvanised,  
with plastic casing



electrogalvanised

Schematic  
top view

KRASO® Sealing Insert Type FL  
Check the installation video  
(Just scan the QR code!)



## KRASO® Sealing Insert Type FL - fixed-loose flange **LG2**

fixed-loose flange with **KRASO® Sealing Insert**, for installation of media pipes for buildings with exterior sealing ("black tank") according to DIN18533. Available in non-corrosive stainless steel V2A or electrogalvanised, each with or without special coating, **Torque Control Nut KRASO® DKM | DIN 18533 W1 -E and W2.2 -E**

Diameter DN	80	100	125	150	200	250	300
	max. external diameter pipe or cable						
from	0	0	0	0	0	0	0
to	55	75	100	125	175	225	275

Item	KRASO® Sealing Insert Type FL/DD - DIN 18533 W2.2 -E: HIGH IMPACT OF PRESSING WATER (WATER COLUMN ≥ 3 METRES)						
Diameter fixed-flange a1	surrounding 160 mm - t = 10 mm						
Diameter loose-flange a2	surrounding 150 mm - t = 10 mm						
KRASO® Sealing Insert Type FL/DD - non-corrosive stainless steel V2A -	779 €	876 €	954 €	1,063 €	1,258 €	1,543 €	1,900 €
KRASO® Sealing Insert Type FL/DD - electrogalvanised -	546 €	616 €	671 €	747 €	884 €	1,085 €	1,332 €
EPDM supplement (2 pcs.)	32 €	35 €	39 €	44 €	58 €	75 €	86 €
Surcharge special coating	144 €	151 €	166 €	183 €	201 €	222 €	243 €

Item	KRASO® Sealing Insert Type FL/ED - DIN 18533 W1 -E: SOIL MOISTURE AND NON-PRESSING WATER						
Diameter fixed-flange a1	surrounding 70 mm - t = 6 mm						
Diameter loose-flange a2	surrounding 60 mm - t = 6 mm						
KRASO® Sealing Insert Type FL/ED - non-corrosive stainless steel V2A -	550 €	639 €	711 €	833 €	1,038 €	1,293 €	1,632 €
KRASO® Sealing Insert Type FL/ED - electrogalvanised -	384 €	448 €	499 €	585 €	730 €	907 €	1,143 €
EPDM supplement (2 pcs.)	22 €	23 €	28 €	30 €	39 €	53 €	61 €
Surcharge special coating	122 €	129 €	135 €	142 €	149 €	157 €	164 €

**Scope of supply:** KRASO® Sealing Insert Type FL/DD / KRASO® Sealing Insert Type FL/ED, sealing insert with welded fixed-flange, loose-flange, dowels M8 x 100, bolts, nuts and washers M20 or M12, 40 mm or 20 mm seal

**Further diameters available on request! Also available in V4A!**