

**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



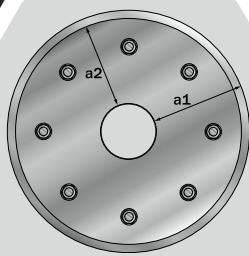
electrogalvanised



electrogalvanised,  
with plastic casing



electrogalvanised

Schematic  
top view

KRASO® Casing Type FL/ZE  
Check the installation video  
(Just scan the QR code!)



## KRASO® Casing Type FL/ZE - fixed-loose flange for concreting **LG2**

fixed-loose flange for concreting, with casing, for installation of media pipes using a sealing insert (not included in the scope of supply) for buildings with exterior sealing ("black tank") against pressing/non-pressing water according to DIN 18533. Available in non-corrosive stainless steel V2A or electrogalvanised with plastic casing, each with or without special coating. ID = InternalDiameter | **DIN 18533 W2.1 -E and W2.2 -E**

Item	KRASO® Casing Type FL/ZE - DIN 18533 W2.2 -E: HIGH IMPACT OF PRESSING WATER (WATER COLUMN $\geq 3$ METRES)						
Casing Internal Diameter ID	80	100	125	150	200	250	300
Wall thickness in cm	20 • 24 • 25 • 30 • 35 • 36.5 • 40 • 45 • 50						
Diameter fixed-flange a1	surrounding 160 mm - t = 10 mm						
Diameter loose-flange a2	surrounding 150 mm - t = 10 mm						
KRASO® Casing Type FL/ZE - non-corrosive stainless steel V2A -	839 €	918 €	997 €	1,121 €	1,400 €	1,722 €	2,036 €
KRASO® Casing Type FL/ZE - electrogalvanised -	587 €	642 €	698 €	785 €	980 €	1,206 €	1,425 €
EPDM supplement (2 pcs.)	32 €	35 €	39 €	44 €	58 €	75 €	86 €
Surcharge special coating	144 €	151 €	166 €	183 €	201 €	222 €	243 €

Item	KRASO® Casing Type FL/ZE - 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® Casing Type FL/ZE - non-corrosive stainless steel V2A -	622 €	679 €	759 €	874 €	1,169 €	1,666 €	1,833 €
KRASO® Casing Type FL/ZE - electrogalvanised -	436 €	476 €	531 €	612 €	818 €	1,166 €	1,283 €
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® Casing Type FL/ZE, with welded fixed-flange, loose-flange, dowels M8 x 100, bolts, nuts and washers M20 or M12

**Further diameters and wall thicknesses available on request! Also available in V4A!**