



Utility Connection -
Entries

Floor

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Wall

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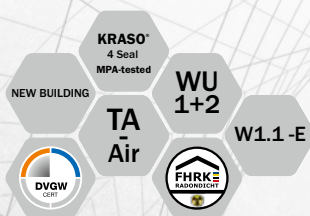
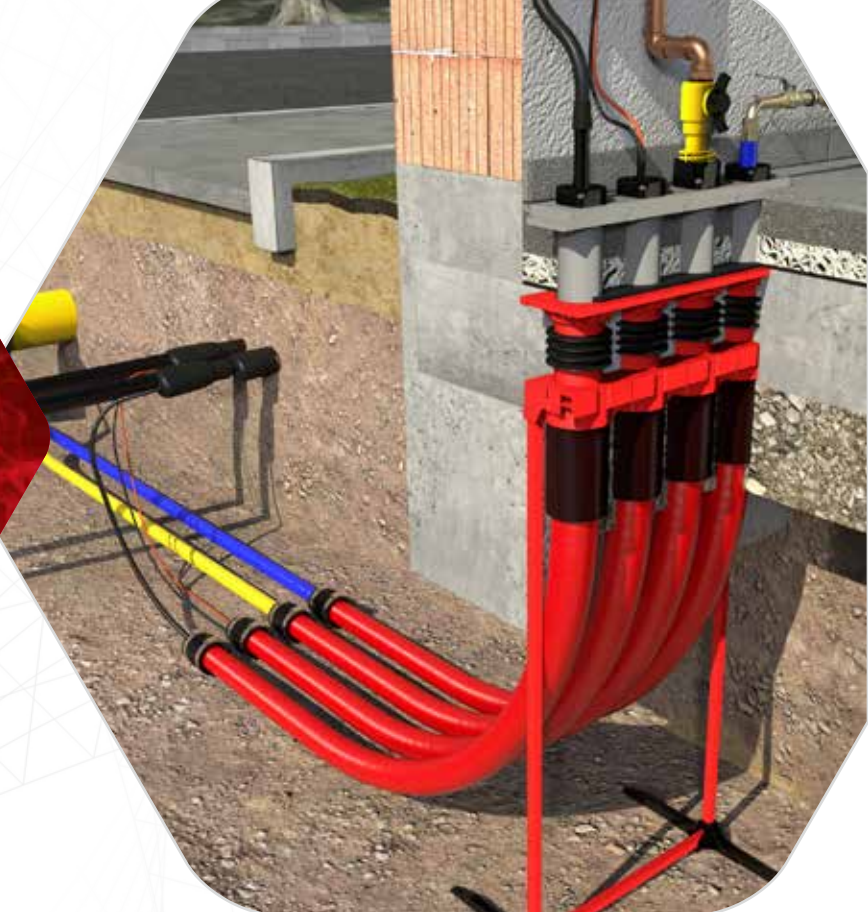
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KRASO® Builder's Convenience Box - floor
Check the installation video
(just scan the QR code!)

**Multi utility
connection
for buildings
without
basement**



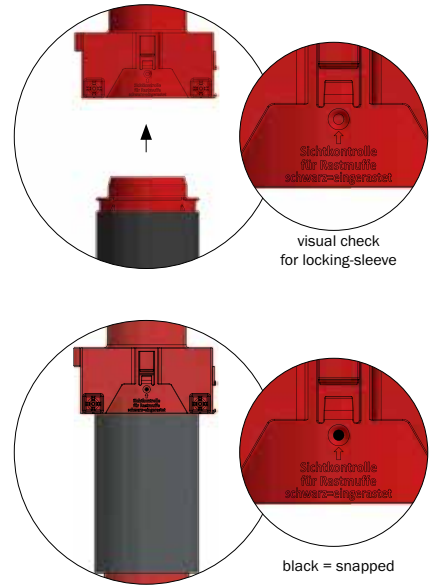
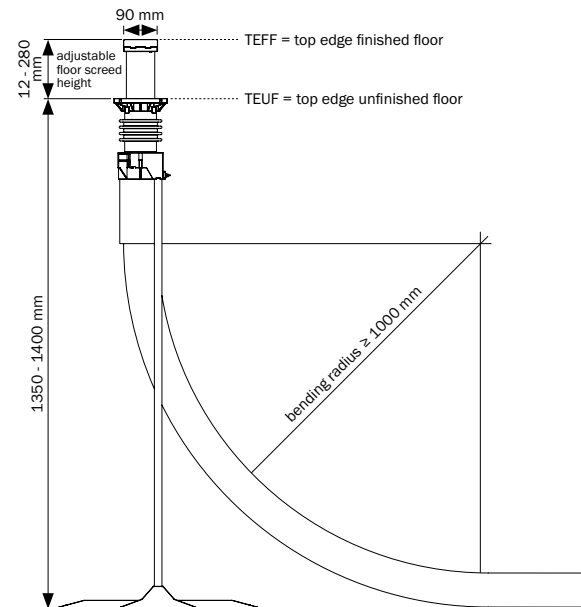
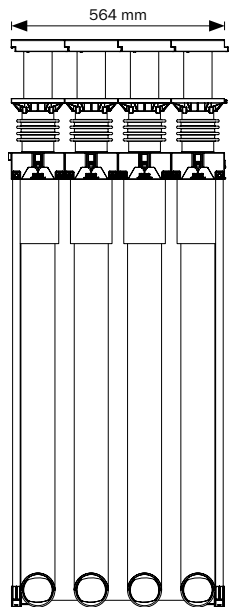
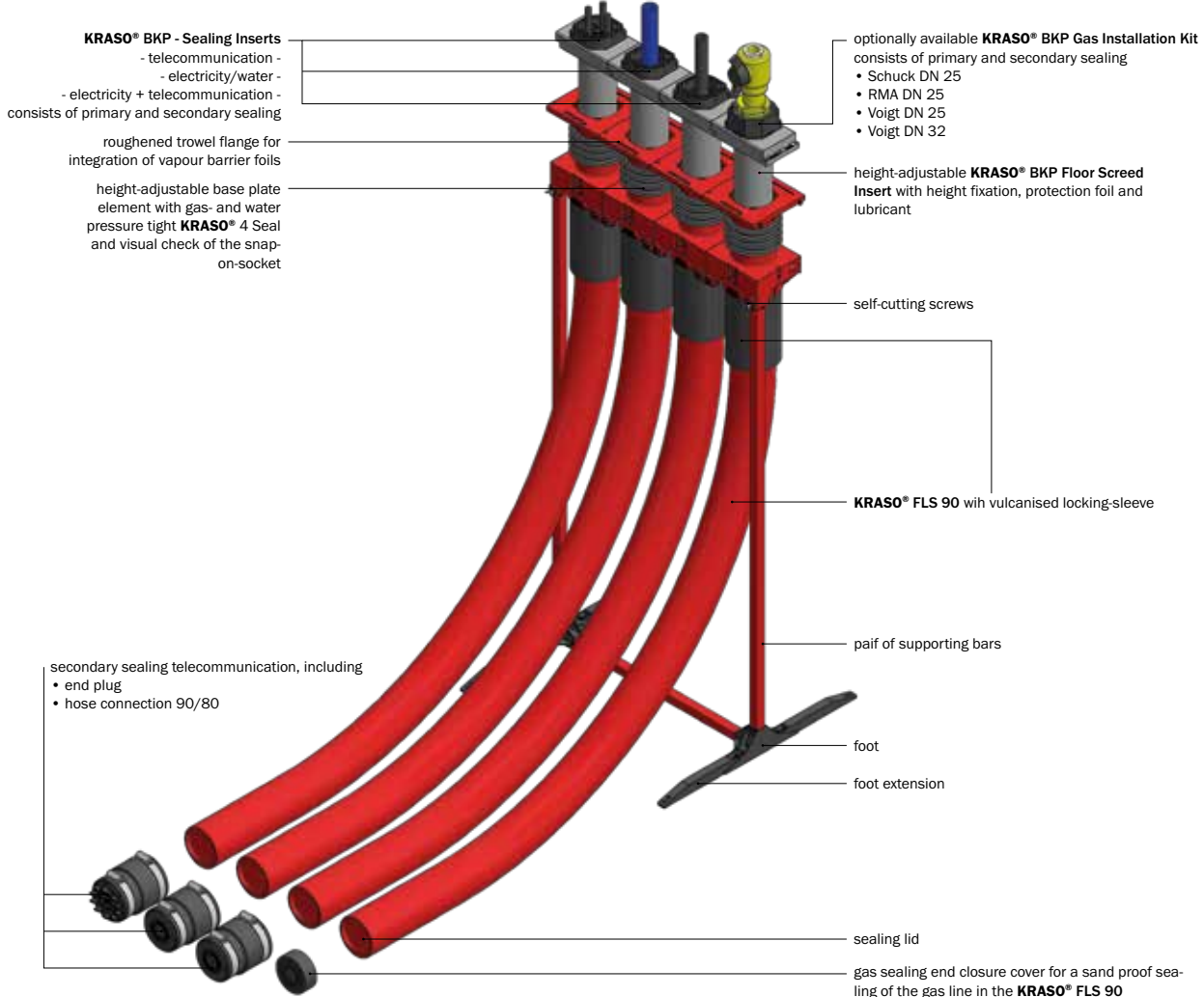
KRASO® Builder's Convenience Box - floor

The multi utility connection for
gas, water, electricity, telecommunication

- + The convenient solution for builders: **safe and tight installation of gas, water, electricity and telecommunication lines into buildings without basement!**
- + • **DVGW-certified according to VP 601:**
 - complete system is gas- and water pressure tight up to 1 bar!
 - Gas- and odour-tight – high-quality in terms of TA-Air!
 - Radon-tight! Resistant to methane gas!
 - **KRASO® 4 Seal** : exterior sealing of concrete: 10 bar!
- Overall system is gas- and water pressure tight up to 1 bar!
- + **Simple installation** due to stable installation device and visual check of the snap-on-socket - helps to avoid installation errors!
- + Hose diameter: **external 90 mm - internal 80 mm!**
- + For flush-mount installation in the base plate - no tripping hazards, no wall damages! Including building period installation cover.
- + **Easy integration of vapour barrier foils** due to the **roughened trowel flange!**
- + **Height-adjustable** base plate as well as floor screed.
- + **Optionally available KRASO® BKP Gas Installation Kits:**
 - gas utility connection Schuck DN 25
 - gas utility connection RMA DN 25
 - gas utility connection Voigt DN 25
 - gas utility connection Voigt DN 32
- + Split end plugs for easy installation!
- + Including extension set!
- + **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E**

Internal
diameter
80 mm!





KRASO® BKP - floor - extension set

as an extension for the Flexible Empty Pipe System **KRASO® FLS 90** with on-site provided cable protective hose, including 2 x shrink hose 95/25 and 1 x adapter tube DN 90 with protective cover per system.

Included in all **KRASO® Builder's Convenience boxes - floor!**





KRASO® Builder's Convenience Box - floor **LG 5**

KRASO® Builder's Convenience Box (BKP) - floor, multi utility connection for supply lines (gas, water, electricity, telecommunication) for buildings without basement incl. **KRASO®** FLS 90, incl. installation kits for electricity/water (2 x), telecommunication, electricity + telecommunication as standard configuration for **KRASO®** BKP - floor - 4-fold, desired configuration for the **KRASO®** BKP - floor - 3-fold, 2-fold, 1-fold, **KRASO®** BKP Gas Installation Kits are optionally available | **DafStB** waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E

Type / Item	KRASO® BKP - floor			
Height-adjustable to TEUF* in mm from ... to ...	1350 - 1400			
Height-adjustable to TEFF** in mm from ... to ...	12 - 280			
Bending radius in mm	≥ 1000			
Dimensions floor screed insert wiping edge in mm	564 x 90	423 x 90	284 x 90	141 x 90

Type / Item	KRASO® BKP - floor - 4-fold			
incl. KRASO® FLS 90	4 x 3 metres	4 x 6 metres	4 x 9 metres	4 x 12 metres
KRASO® BKP - floor - 4-fold	963 €	1.197 €	1.431 €	1.665 €

Type / Item	KRASO® BKP - floor - 3-fold			
incl. KRASO® FLS 90	3 x 3 metres	3 x 6 metres	3 x 9 metres	3 x 12 metres
KRASO® BKP - floor - 3-fold	834 €	1.010 €	1.185 €	1.361 €

Type / Item	KRASO® BKP - floor - 2-fold			
incl. KRASO® FLS 90	2 x 3 metres	2 x 6 metres	2 x 9 metres	2 x 12 metres
KRASO® BKP - floor - 2-fold	553 €	670 €	787 €	904 €

Type / Item	KRASO® BKP - floor - 1-fold			
incl. KRASO® FLS 90	1 x 3 metres	1 x 6 metres	1 x 9 metres	1 x 12 metres
KRASO® BKP - floor - 1-fold	404 €	463 €	521 €	580 €

Scope of supply: the following details are for the **KRASO®** Builder's Convenience Box - floor - 4-fold with **KRASO®** FLS 90 (3 metres), the delivery is differing with regard to other designs (3-fold, 2-fold, 1-fold).

- foot
- foot extension
- pair of supporting bars
- height-adjustable base plate element 4-fold with gas- and water pressure tight **KRASO®** 4 Seal, trowel flange, visual check for locking-sleeve and pre-installed building period installation cover
- 4 x Flexible Empty Pipe System **KRASO®** FLS 90 (3 metres) with vulcanised locking-sleeve and closure cover
- height-adjustable **KRASO®** BKP Floor Screed Insert with protective cover and lubricant
- height fixation for **KRASO®** BKP Floor Screed Insert (2 pcs.)
- installation instructions **KRASO®** Builder's Convenience Box - floor
- folding rule
- **KRASO®** BKP - floor - extension set including
 - 8 x shrink hose 95/25
 - 4 x adapter tube DN 90 with protective cover
- installation kits including
 - **KRASO®** BKP - Sealing Insert - electricity/water - 2 pcs. with stepless onion ring technology 26 - 50 mm or blind
 - primary sealing + secondary sealing electricity/water
 - casing pipe end plugs including
 - end plugs electricity/water - split -
 - hose connection 90/80

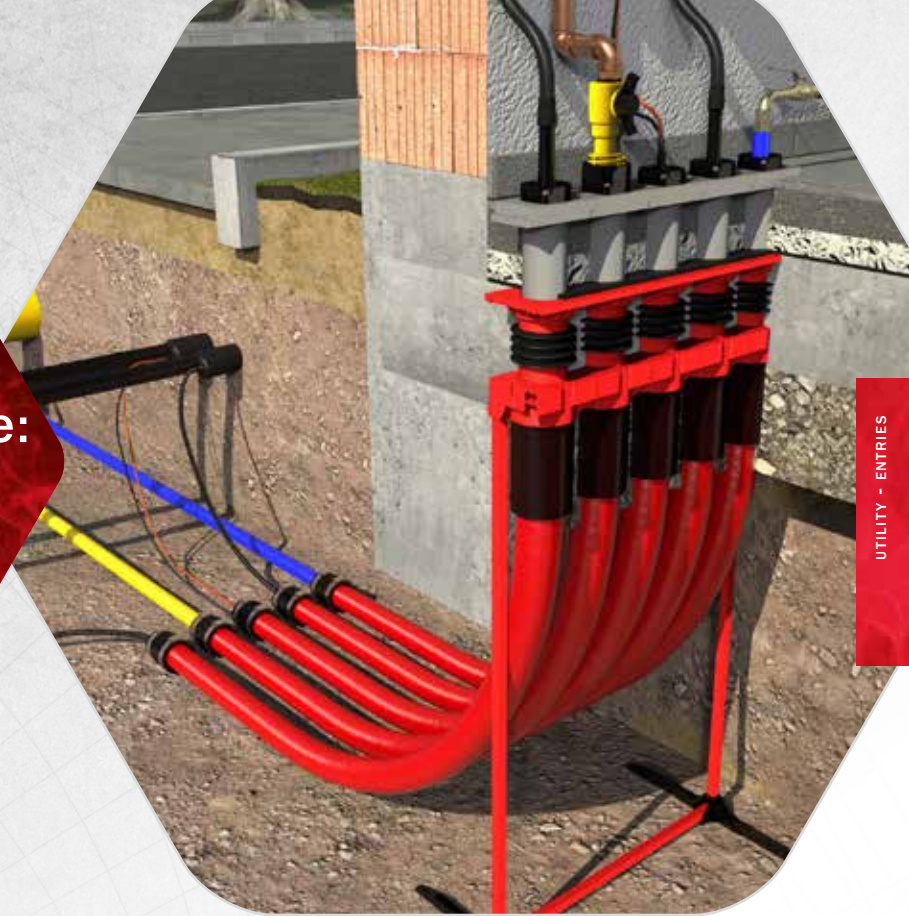
- **KRASO®** BKP - Sealing Insert - telecommunication - clamping range: 5 - 13 mm, 3 x 7 - 13 mm, 13 - 21 mm
 - primary sealing + secondary sealing telecommunication
 - casing pipe end plugs including
 - end plug telecommunication - split -
 - hose connection 90/80
- **KRASO®** BKP - Sealing Insert - electricity + telecommunication - clamping range: electricity 25 - 36 mm / telecommunication 2 x 5 - 10 mm, 3 x 7 - 14 mm
 - primary sealing + secondary sealing electricity + telecommunication
 - casing pipe end plugs including
 - end plug electricity + telecommunication
 - hose connection 80
 - a tube of lubricant

optionally available **KRASO®** BKP Gas Installation Kits:

- **Schuck DN 25** consists of primary and secondary sealing as well as gas end plug
- **RMA DN 25** consists of primary and secondary sealing as well as gas end plug
- **Voigt DN 25** consists of primary and secondary sealing as well as gas end plug
- **Voigt DN 32** consists of primary and secondary sealing as well as gas end plug

* TEUF = Top Edge Unfinished Floor, ** TEFF = Top Edge Finished Floor

**Building
for the future:
one with a
spare
system!**



UTILITY - ENTRIES



KRASO® Builder's Convenience Box - floor - 5-fold Building for the future: 10 metres empty pipe + 1 system on top

- + Builders build for the future! **Be prepared for future projects and developments** with a fifth system and 10 metres empty pipe system!
- + With an empty pipe system installed to the property boundary, **you can save both costs and time regarding excavation and digging work on your own property in the event of future retrofitting or improving connections.** The **KRASO® Builder's Convenience Box - floor - 5-fold** contains 10 metres of **KRASO® FLS 90** for each section!
- + **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E**

KRASO® Builder's Convenience Box - floor - 5-fold **LG 5**

KRASO® Builder's Convenience Box (BKP) - floor, multi utility connection for supply lines (gas, water, electricity, telecommunication) for buildings without basement incl. **KRASO® FLS 90**, incl. installation kits for electricity/water (3 x), telecommunication, electricity + telecommunication as standard configuration for **KRASO® BKP - floor - 5-fold**, **KRASO® BKP Gas Installation Kits** are optionally available | **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E**

Type / Item	KRASO® BKP - floor - 5-fold
Height-adjustable to TEUF* in mm from ... to ...	1350 - 1400
Height-adjustable to TEFF** in mm from ... to ...	12 - 280
Bending radius in mm	≥ 1000
Dimensions floor screed insert wiping edge in mm	705 x 90
incl. KRASO® FLS 90	5 x 10 metres
electricity/water (3 x), telecommunication, electricity + telecommunication	1.627 €

Scope of supply: see **KRASO®** Builder's Convenience Box - floor, but with additional **KRASO® BKP - Sealing Insert - electricity/water -**, 5 x Flexible Empty Pipe System **KRASO® FLS 90** (10 metres)

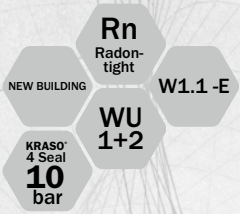
* TEUF = Top Edge Unfinished Floor, ** TEFF = Top Edge Finished Floor

1 system
on top!



10 metres empty pipe up to the street
= no more dredging!

Single utility connection for buildings without basement



KRASO® Builder's Convenience Box - floor - 110

The flexible utility connection for heat pumps, local, district or geothermal heating, gas, water or electricity

- + The secure utility connection for heat pumps for buildings without basement:
 - KRASO® Builder's Convenience Box - floor - 110 for water-to-water heat-pumps and brine-water-heat pumps (probe and collector)
 - KRASO® Builder's Convenience Box - floor - 110 - SWP for air-to-water heatpump (split).
- + Flexible: also usable for configuring with local, district or geothermal piping systems, gas, water or electricity up to DN 50.
- + With water pressure tight surrounding KRASO® 4 Seal : exterior sealing of concrete: 10 bar!
- + Radon-tight!
- + Hose diameter: external 110 mm - internal 100 mm!
- + Stable installation device with foot extension for a save position and an easy installation
- + For flush-mount installation in the base plate – no tripping hazards, no wall damages! Including building period protection cover
- + Incl. empty pipe insert (25 cm, internal diameter: 100 mm) for a flexible floor construction
- + Incl. Flexible Empty Pipe System KRASO® FLS 110 (internal diameter: 100 mm): bending radius 1000 mm. Incl. hose connection 110 and end plug
- + DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E



KRASO® Builder's Convenience Box - floor - 110

With KRASO® Sealing Insert Universal 100 DD with large flange for internal installation of the lines

Scope of application:

- stepless onion ring technology
18 – 65 mm or blind

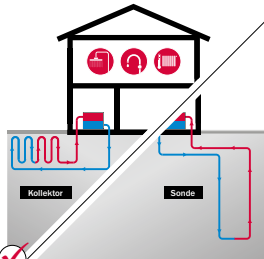
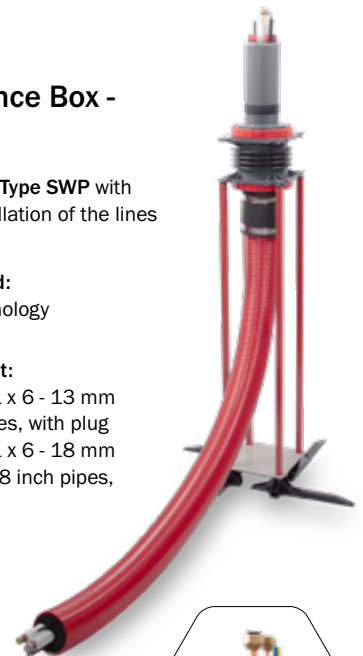


KRASO® Builder's Convenience Box - floor - 110 - SWP

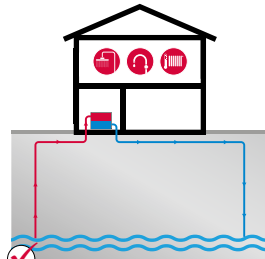
With KRASO® Sealing Insert Type SWP with large flange for internal installation of the lines

Scope of application:

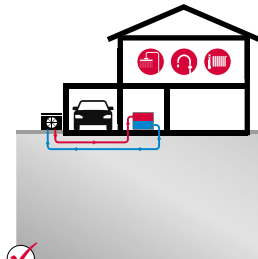
- for control cables, closed:
stepless onion ring technology
2 x 5 - 18 mm, with plug
- for refrigerant pipes, split:
 - onion ring technology 1 x 6 - 13 mm
for 1/4 or 3/8 inch pipes, with plug
 - onion ring technology 1 x 6 - 18 mm
for 1/4, 3/8, 1/2 or 5/8 inch pipes,
with plug



Brine-to-water heat pump
- collector - / - probe -



Water-to-water heat pump



Air-to-water heat pump
- split -



incl. empty pipe insert (25 cm,
internal diameter: 100 mm)



KRASO® Builder's Convenience Box - floor - 110 **LG5**

(including installation set)

KRASO® Builder's Convenience Box (BKP) - floor - 110 – 1-fold, single utility connection for supply lines (heat pump, local/district/geothermal heating, gas, water or electricity) for buildings without basement, incl. KRASO® FLS 110. | DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 - E

Type / Item	KRASO® BKP - floor - 110 / KRASO® BKP - floor - 110 - SWP			
Height to TEUF in mm	approx. 1185			
Height-adjustable to TEFF in mm to max.	approx. 1435			
Bending radius in mm	1000			
incl. KRASO® FLS 110	3 metres	6 metres	9 metres	12 metres
KRASO® BKP - floor - 110	715 €	814 €	913 €	1.012 €
KRASO® BKP - floor - 110 - SWP	750 €	849 €	948 €	1.047 €

Scope of supply: stable installation device with foot extension, wall penetration for installation flush with the base plate, Flexible Empty Pipe System KRASO® FLS 110 (internal diameter: 100 mm, radius: 1000 mm, incl. hose connection 110, installation set including: empty pipe insert ID 100, approx. 25 cm, KRASO® Sealing Insert Universal 100 DD with large flange, end plug FLS 110 Universal or KRASO® Sealing Insert Type SWP with large flange, end plugs

KRASO®
Builder's Convenience
Box - floor - 110
also available as multi
utility connection





Heat pump technology – simple and tight into the building



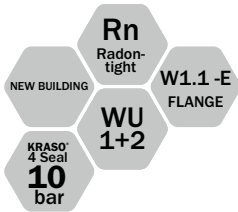
- + An efficient heat pump system includes gas- and water pressure tight installation into the building – either through the basement wall or the base plate, with a white or black tank.
- + With or without basement, new building or rehabilitation: **KRASO®** offers various solutions for a simple and tight connection of heat pumps!



KRASO® is a member of **FHRK e.V.**

- + As a member of the Fachverband Hauseinführungen Rohre und Kabel (FHRK e.V.) association, we develop testing principles and technical guidelines together with other manufacturers and users such as utility companies so that the quality of our sealing solutions for utility connections is ensured and can also be compared.





KRASO® Builder's Convenience Box - floor - 150

The safe multi utility connection for larger media lines

- + **The safe utility connection for larger media lines** for buildings without basement, e.g. electricity or water for residential buildings or commercial buildings
- + **Usable with KRASO® Sealing Insert with large flange as utility connection entry or outlet:** e.g. **for charging stations in residential buildings** (flat ownership modernisation law – WEMoG).
- + With water pressure tight surrounding **KRASO® 4 Seal** : **exterior sealing of concrete: 10 bar!**
- + **Radon-tight!**
- + **Stable installation device** incl. rigid empty pipe **with bending radius from 1000 mm**
- + For flush-mount installation in the base plate – no tripping hazards, no wall damages! Including building period protection cover
- + Including empty pipe insert (25 cm, internal diameter: 150 mm) **for a flexible floor construction**
- + Internal installation of media lines via **KRASO® Sealing Inserts**: various designs with stepless onion ring technology
- + External optional connection possibilities: connection to **KRASO® FLS**, cable protective hoses DN 110 or DN 160 or KG empty pipe systems with DN 160
- + Optionally available: **KRASO® Trowel Flange**
- + **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E**

KRASO® Builder's Convenience Box - floor - 150 **LG 5**

single utility connection for supply lines, for buildings without basement, with water pressure tight surrounding **KRASO® 4 Seal** | **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E**

Type / Item	KRASO® BKP - floor - 150			
Height to TEUF in mm	approx. 1220			
Height-adjustable to TEFF in mm to max.	approx. 1470			
Bending radius in mm	1000			
KRASO® Sealing Insert with large flange	Design 1	Design 2	Design 3	Design 4
Stepless onion ring technology: external cable diameter from... to ... in mm	3 x 6 - 52 mm or Blind	4 x 6 - 18 mm and 6 x 6 - 33 mm or Blind	6 x 6 - 38 mm or Blind	1 x 50 - 92 mm or Blind
KRASO® System Cover – either:	Design 1	Design	Design 3	
	hose connection 160	hose connection 110	plug-in sleeve DN 160	
KRASO® BKP - floor - 150	821 €			
optional: KRASO® Trowel Flange	93 €			

Scope of supply: rigid empty pipe 150 incl. stable installation device, empty pipe insert ID150, approx. 25cm, **KRASO® Sealing Insert with large flange** for the installation in **KRASO® Empty Pipe Insert**, **KRASO® System Cover** for the connection of on-site empty pipe

Simple, comfortable, tight to the heat pump or to the local, district and geothermal energy network

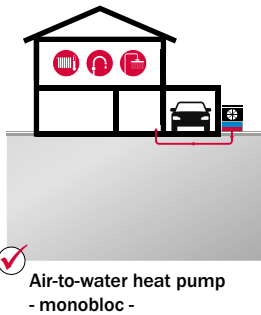
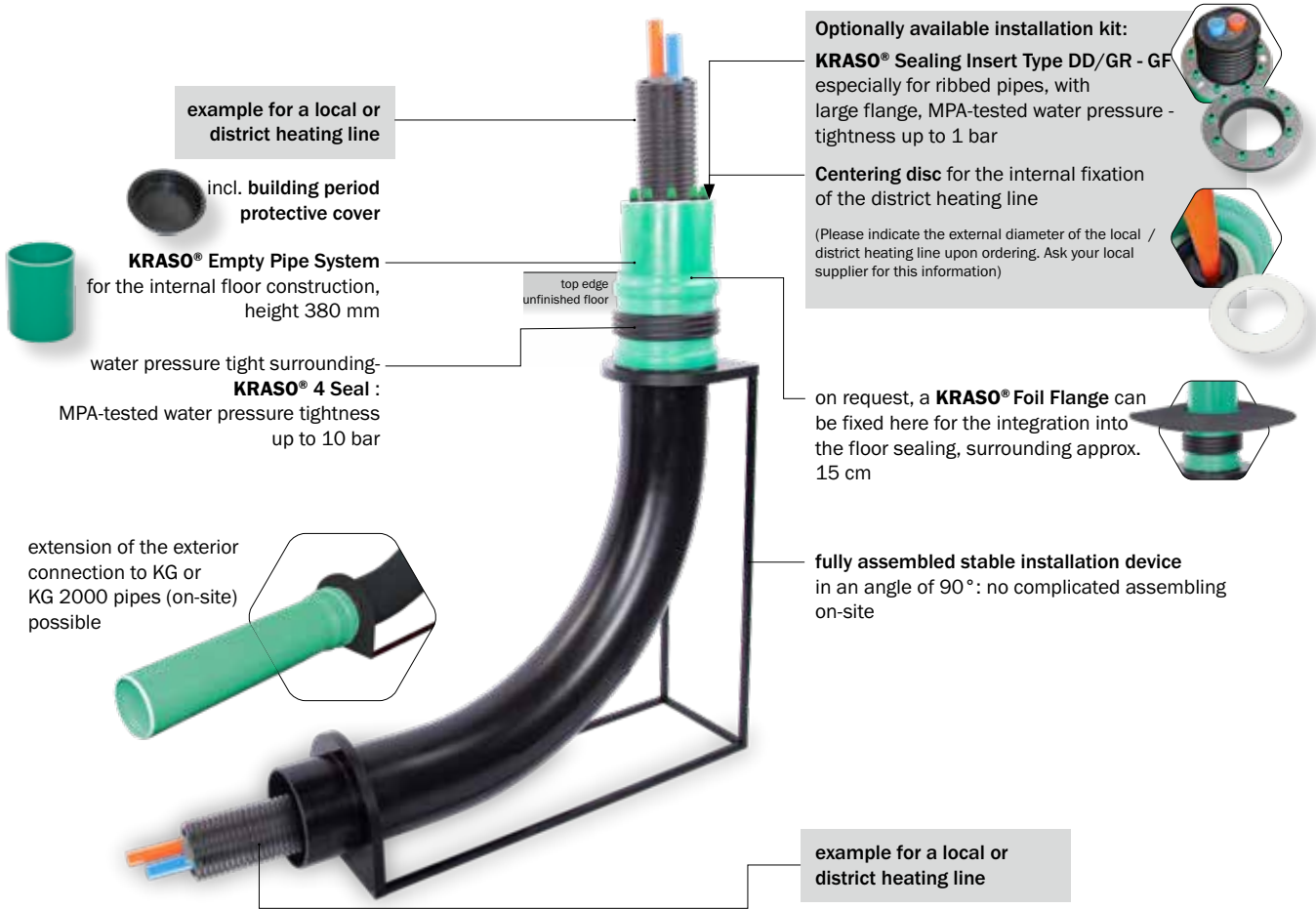


KRASO® Builder's Convenience Box - floor - NFE - Basis

Simple, comfortable, tight up to the heat pump or to the local, district and geothermal energy network

- + The comfortable solution for the connection to air-water-heat pump (monobloc) or to the local, district and geothermal energy network – for flexible and insulated pipelines with integrated supply and reflux
- + Fully assembled stable installation device:
positioning – arrangement – concreting – connection – ready!
- + **For buildings without basement:**
single-/multi-family houses, public and commercial buildings
- + On request also available with **KRASO® Foil Flange** – for the integration into the floor sealing
- + **KRASO® Builder's Convenience Box - floor - NFE - Basis** including:
 - **KRASO® Builder's Convenience Box - floor - NFE - Basis DN 200, DN 250 or DN 315** with water pressure tight surrounding **KRASO® 4 Seal**
 - **KRASO® Empty Pipe Insert KG 2000:** for the internal floor construction
 - Building period protection cover
- + **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E**





KRASO® Builder's Convenience Box - floor - NFE - Basis available as 2-fold system!



KRASO® Builder's Convenience Box - floor - NFE - Basis **LG 5**

for the connection to the local, district and geothermal energy network. Optionally available: **KRASO® Foil Flange** for the integration into the floor sealing | DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1.1 -E

Type / Item	KRASO® BKP - floor - NFE - Basis				
Diameter DN	DN 200	DN 200	DN 200	DN 250	DN 315
Bending radius in mm	800	1000	1250	800	1000
KRASO® BKP - floor - NFE - Basis	905 €	955 €	1.017 €	981 €	1.143 €
KRASO® Foil Flange (optionally available)	235 €	235 €	235 €	306 €	395 €
Installation kit (optionally available)	280 €	280 €	280 €	336 €	429 €

Scope of supply: KRASO® Builder's Convenience Box - floor - NFE - Basis with installation device, empty pipe insert and building period protective cover - optionally available: **KRASO® Foil Flange**, installation kit with **KRASO® Sealing Insert Type DD/GR - GF** and centering disc

Two-fold version on request!



KRASO® BKP - floor - 1-fold



KRASO® BKP - floor - 2-fold



KRASO® BKP - floor - 3-fold



KRASO® BKP - floor - NFE - Basis - 2-fold

	KRASO® Builder's Convenience Box				
	- floor	- floor - 110 -	- floor - 110 - SWP	- floor - 150 -	- floor - NFE - Basis
Single utility connection	✓	✓	✓	✓	✓
Multi utility connection	✓	✓	-	✓	✓
Gas	✓	✓	-	-	-
Water	✓	✓	-	✓	-
Electricity	✓	✓	-	✓	-
Telecommunication	✓	✓	-	✓	-
Local/geothermal/district heating	-	✓	-	-	✓
Heat pump	-	✓	✓	-	✓
DVGW approved in accordance with VP 601: whole system is gas and water pressure-tight up to 1 bar!	✓	-	-	-	-
KRASO® 4 Seal : exterior sealing of concrete: 10 bar!	✓	✓	✓	✓	✓
Gas- and odour-tight – high-quality in terms of TA-Air!	✓	✓	✓	✓	-
Radon tightness IAF tested		Rn Radon-tight	Rn Radon-tight	Rn Radon-tight	Rn Radon-tight
DafStB waterproof concrete guideline / DIN 18533	WU 1+2 W1.1 -E	WU 1+2 W1.1 -E	WU 1+2 W1.1 -E	WU 1+2 W1.1 -E	WU 1+2 W1.1 -E
External/internal diameter KRASO® FLS in mm or nominal size of arc (- floor - NFE)	90/80	110/100	110/100	Connection via KRASO® System Cover	DN 200 DN 250 DN 315
Bending radius in mm	≥ 1000	≥ 1000	≥ 1000	1000	800 (DN 200) 800 (DN 250) 1000 (DN 315)
Height to TEUF in mm	1350 - 1400 (adjustable)	approx. 1185	approx. 1185	1265	1300 (DN 200) 1365 (DN 250) 1490 (DN 315)
Height-adjustable to TEFF in mm from ... to ... or height to OKFF in mm	12 - 280 (adjustable)	approx. 1435	approx. 1435	1515	0 - 250 (adjustable on-site)
Installation kit	✓	✓	✓	✓	optional
Scope of application KRASO® BKP - Sealing Insert - electricity/water	26 - 50 mm or blind	-	-	KRASO® Sealing insert with large flange: Design 1: 3 x 6 - 52 mm or Blind Design 2: 4 x 6 - 18 mm and 6 x 6 - 33 mm or Blind Design 3: 6 x 6 - 38 mm or Blind Design 4: 1 x 50 - 92 mm or Blind	-
Scope of application KRASO® BKP - Sealing Insert - telecommunication	5 - 13 mm 3 x 7 - 13 mm 13 - 21 mm	-	-		-
Scope of application KRASO® BKP - Sealing Insert - electricity + telecommunication	electricity 25 - 36 mm telecommunication 2 x 5 - 10 mm 3 x 7 - 14 mm	-	-		-
Scope of application KRASO® Sealing Insert Universal 100 DD with large flange	-	18 - 65 mm or blind	-		-
Scope of application KRASO® Sealing Insert Type SWP with large flange	-	-	For control cables, closed: stepless onion ring technology 2 x 5 - 18 mm, with plug For refrigerant lines, split: • onion ring technology 1 x 6 - 13 mm for 1/4 or 3/8 inch pipes, with plug • onion ring technology 1 x 6 - 18 mm for 1/4, 3/8, 1/2 or 5/8 inch pipes, with plug	-	-
Scope of application KRASO® Sealing Insert Type DD/GR with large flange*	-	-	-	-	0 - 155 mm (DN 200) 0 - 201 mm (DN 250) 0 - 262 mm (DN 315)
Optionally available KRASO® BKP gas installation kits	• Schuck DN 25 • RMA DN 25 • Voigt DN 25 • Voigt DN 32	-	-	-	-

* Scope of application sealing insert - when choosing the utility connection, take the bending radius of the media line into account. Material and rigidity vary between different manufacturers.



KRASO® Builder's Convenience Box - wall
Check the installation video
(just scan the QR code!)

**Multi utility
connection for
buildings with
basement**

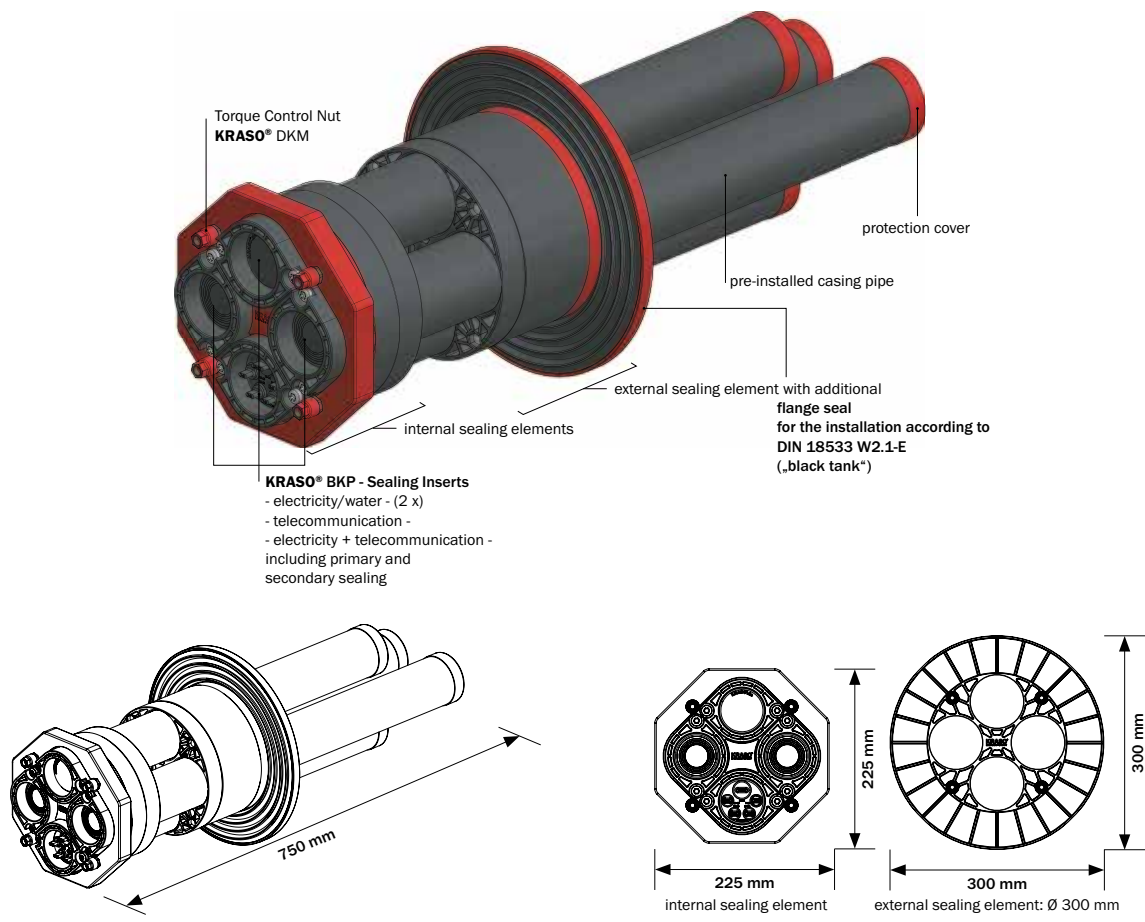


KRASO® Builder's Convenience Box - wall Multi utility connection for buildings with basement: gas, water, electricity and telecommunication

- + **DVGW-certified according to VP 601:** complete system is gas- and water pressure tight up to 1 bar!
- + For core drilling and casing DN 200 (199 - 203 mm). **For precast walls and in-situ concrete walls!**
- + External sealing element with **flange according to DIN 18533!** Seal: 80 mm
- + **Tight in waterproof concrete structures with stress class 1** (permanently or temporarily pressing water).
- + **Radon tightness IAF tested** - meets the requirements for radon precautionary areas according to FHRK leaflet MB 101! **Resistant to methane gas!**
- + Torque Control Nut **KRASO® DKM:** integrated torque limiter - **no torque wrench required!**
- + Split end plugs for **easy installation!**
- + Ready for the network connection of gas, water, electricity and telecommunication:
Tested in accordance with DVGW! Including **KRASO® BKP - Sealing Inserts for electricity/water, telecommunication, electricity + telecommunication**
- + **Optionally available KRASO® BKP Gas Installation Kits:**
 - gas utility connection Schuck DN 25
 - gas utility connection RMA DN 25
 - gas utility connection Voigt DN 25
 - gas utility connection Voigt DN 32
- + Including **KRASO® BKP - wall - extension set!**
- + DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E

KRASO® BKP - wall - extension set including
- 4 x double sleeve DN 75
- 8 x sealing ring
- lubricant





KRASO® Builder's Convenience Box - wall **LG5**

multi utility connection for supply lines (gas, water, electricity, telecommunication) for buildings with basement, **KRASO® BKP Gas Installation Kits** optionally available | **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E**

Type / Item	KRASO® BKP - wall
Wall thickness from ... to ...	200 - 500 mm
Diameter core drilling min ... max ...	199 - 203 mm
Length complete system	750 mm
Length x width internal sealing element	225 x 225 mm
Diameter external sealing element	300 mm
Internal diameter casing pipes	68 mm
External diameter casing pipes	75 mm
KRASO® BKP - wall	772 €

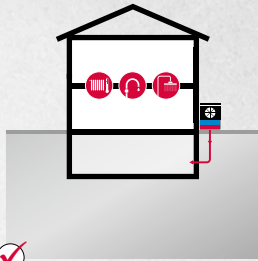
Scope of supply:

- **KRASO® Builder's Convenience Box - wall** including
 - internal sealing element with pre-installed casing pipes incl. protective cover for the installation of supply lines such as gas, water, electricity, telecommunication
 - external sealing element
- **KRASO® BKP - wall - extension set** including
 - 4 x double sleeve DN 75
 - 8 x sealing ring
 - lubricant
- installation instructions **KRASO® Builder's Convenience Box - wall**
- folding rule
- installation kits including
 - **KRASO® BKP - Sealing Insert - electricity/water** - 2 pcs. with stepless onion ring technology 26 - 50 mm or blind
 - primary sealing + secondary sealing electricity/water
 - casing pipe end plugs including
 - end plug electricity/water - split -
 - hose connection 80
 - **KRASO® BKP - Sealing Insert - telecommunication** - clamping range: 5 - 13 mm, 3 x 7 - 13 mm, 13 - 21 mm
 - primary sealing + secondary sealing telecommunication
 - casing pipe end plugs including
 - end plug telecommunication - split -
 - hose connection 80

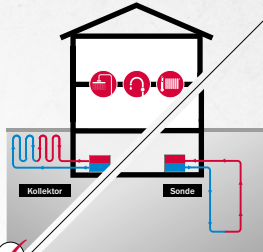
- **KRASO® BKP - Sealing Insert - electricity + telecommunication** - clamping range: electricity 25 - 36 mm / telecommunication 2 x 5 - 10 mm, 3 x 7 - 14 mm
 - primary sealing + secondary sealing electricity + telecommunication
 - casing pipe end plugs including
 - end plug electricity + telecommunication
 - hose connection 80
 - a tube of lubricant

optionally available **KRASO® BKP Gas Installation Kits:**

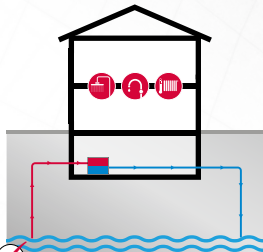
- **Schuck DN 25** consists of primary and secondary sealing as well as gas end plug
- **RMA DN 25** consists of primary and secondary sealing as well as gas end plug
- **Voigt DN 25** consists of primary and secondary sealing as well as gas end plug
- **Voigt DN 32** consists of primary and secondary sealing as well as gas end plug



✓ Air-to-water heat pump
- monobloc -



✓ Brine-to-water heat pump
- collector - / - probe -



✓ Water-to-water heat pump

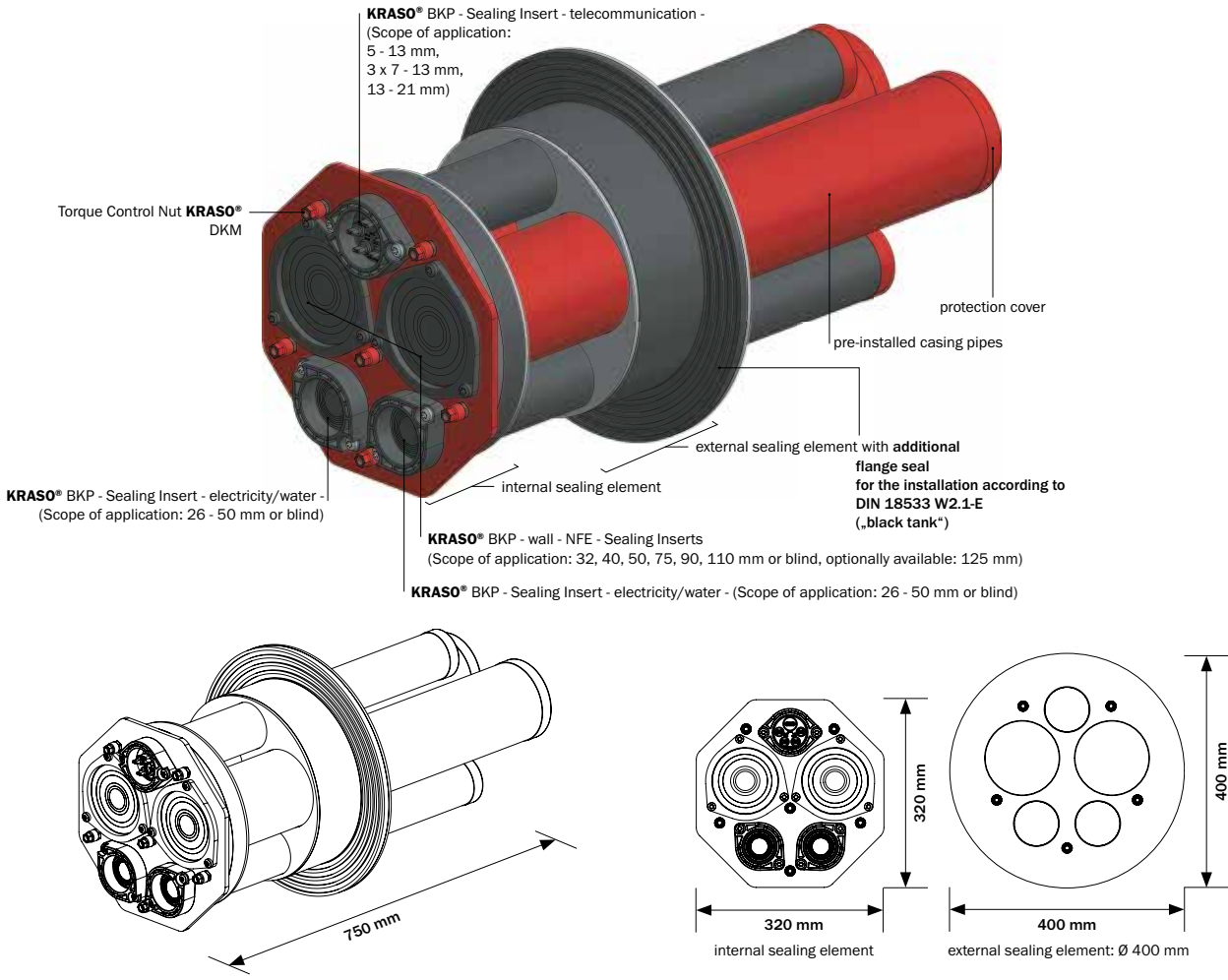
Multi utility
connection for
buildings with
basement



KRASO® Builder's Convenience Box - wall - NFE

Comfortable connection to your basement: heat pump, local, district or geothermal heating

- + Heat pumps- or local, district or geothermal heating system each with supply and reflux!
- + For heat pumps or local, district or geothermal heating lines with diameter 110, 90, 75, 50, 40 or 32 mm, optionally available with a diameter of 125 mm.
- + For core drilling and casing DN 300 (299 - 303 mm). For precast walls and in-situ concrete walls!
- + External sealing element with flange according to DIN 18533!
Seal: 90 mm.
- + Gas- and odour-tight - high-quality in terms of TA-Air!
- + Certified up to 1 bar!
- + Radon tightness IAF tested - according to FHRK leaflet MB 101! Resistant to methane gas!
- + Torque Control Nut KRASO® DKM: integrated torque limiter - no torque wrench required!
- + Including all components for a secure grid connection of heat pump, local, district or geothermal heating, water, electricity and telecommunication!
- + Including casing pipe end plugs – cold bridges are avoided!
- + Optionally available: KRASO® BKP - wall - NFE - extension set – for cable protective hoses, KRASO® FLS or rigid casing pipes!
- + DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E



KRASO® Builder's Convenience Box - wall - NFE **LG5**

multi utility connection for supply lines (local, district or geothermal heating, water, electricity, telecommunication) for buildings with basement | DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E

Type / Item	KRASO® BKP - wall - NFE
Wall thickness from ... to ...	200 - 500 mm
Diameter core drilling min ... max ...	299 - 303 mm
Length complete system	750 mm
Length x width internal sealing element	320 x 320 mm
Diameter external sealing element	400 mm
Seal width external sealing element	90 mm
Internal diameter casing pipes	68 mm
External diameter casing pipes	75 mm
Internal diameter casing pipes NFE	118 mm
External diameter casing pipes NFE	125 mm
KRASO® BKP - wall - NFE	1,225 €

Scope of supply; KRASO® Builder's Convenience Box - NFE including

- internal sealing element with 5 casing pipes for the installation of supply lines for heat pump, local, district or geothermal heating (supply and reflux), water, electricity and telecommunication incl. protection covers
- external sealing element
- installation instructions
- KRASO® Builder's Convenience Box - wall - NFE**
- folding rule
- installation kit including
 - **KRASO® BKP - wall - NFE - Sealing Insert** – 2 pcs.
Scope of application: 32, 40, 50, 75, 90, 110 mm or blind, optionally available: 125 mm
 - primary sealing + secondary sealing NFE
 - 2 x end plug NFE
 - 2 x hose connection 125/125

- **KRASO® BKP - Sealing Insert - electricity/water** - 2 pcs. with stepless onion ring technology 26 - 50 mm or blind
- primary sealing + secondary sealing electricity/water
- casing pipe end plugs including:
 - end plug electricity/water - split -
 - hose connection 80
- **KRASO® BKP - Sealing Insert - telecommunication** - clamping range: 5 - 13 mm, 3 x 7 - 13 mm, 13 - 21 mm
- primary sealing + secondary sealing telecommunication
- casing pipe end plugs including:
 - end plug telecommunication - split -
 - hose connection 80

Optionally available:

- **KRASO® BKP - wall - NFE - extension set**

Further wall thicknesses available on request!



KRASO® Builder's Convenience Box - wall - ESH
Check the installation video
(just scan the QR code!)

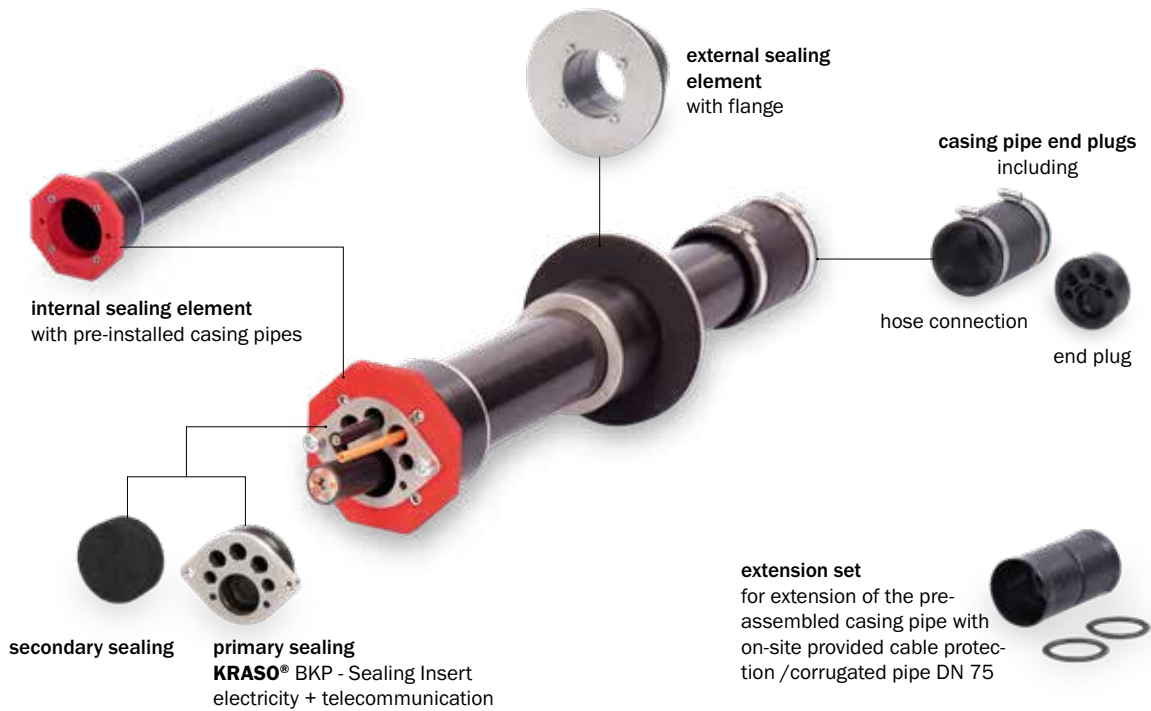
**Single utility
connection for
buildings with
basement**



UTILITY - ENTRIES

KRASO® Builder's Convenience Box - wall - ESH Convenient, safe, tight connection to the network – gas, water, electricity or telecommunication

- + Simple and safe **single utility connection for new buildings or rehabilitation** for buildings with basement
- + **Flexible installation:** gas, water, electricity or telecommunication – including installation / mounting set
- + **Double installation possible: electricity and telecommunication!**
- + **DVGW-certified according to VP 601: complete system is gas- and water pressure tight up to 1 bar!**
- + For core drilling and casing DN 100 (99 - 103 mm). **For precast walls and in-situ concrete walls!**
- + For wall thickness from **160 – 500 mm**
- + **Tight in waterproof concrete structures with stress class 1** (permanently or temporarily pressing water)
- + **External sealing element with flange according to DIN 18533!** Seal: 80 mm
- + **Radon tightness IAF tested** - according to FHRK leaflet MB 101! **Resistant to methane gas!**
- + **Gas- and odour-tight – high-quality in terms of TA-Air!**
- + **Split end plugs for easy installation!**
- + **Including extension set**
- + **DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E**



KRASO® Builder's Convenience Box - wall - ESH **LG 5**

(including installation set)

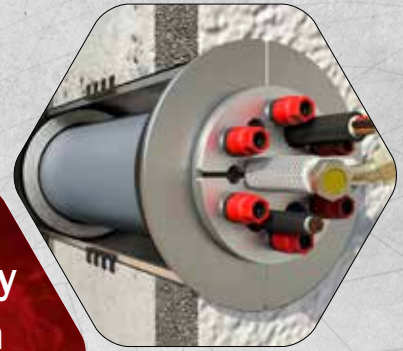
single utility connection for supply lines (gas, water, electricity or telecommunication) for buildings with basement, incl. extension set | DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E

Type / Item	KRASO® BKP - wall - ESH
Wall thickness from ... to ...	160 - 500 mm
Diameter casing or core drilling min ... max ...	99 - 103 mm
Length complete system	630 mm
Length x width internal sealing element	120 x 120 mm
Seal width internal sealing element	40 mm
Diameter external sealing element with flange seal	160 mm
Seal external sealing element with flange seal	80 mm
Internal diameter casing pipe	68 mm
External diameter casing pipe	75 mm
KRASO® BKP - wall - ESH	277 €

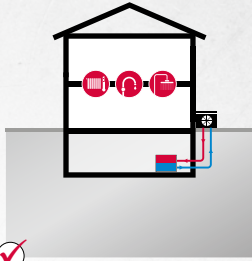
Scope of supply: KRASO® Builder's Convenience Box - wall - ESH including

- internal sealing element with pre-installed casing pipe incl. protective cover for the installation of supply lines such as gas, water, electricity or telecommunication
 - external sealing element
 - installation instructions **KRASO® BKP - wall - ESH**
 - folding rule
 - **KRASO® BKP - wall - ESH - extension set** including
 - double sleeve DN 75
 - 2 x sealing ring
 - lubricant
- as well as one of the following, optionally available installation kits or BKP gas installation kits:
- **KRASO® BKP - Sealing Insert - electricity/water** with stepless onion ring technology 26 - 50 mm or blind
 - primary sealing + secondary sealing electricity/water
 - casing pipe end plugs including
 - end plug electricity/water - split -
 - hose connection 80
 - **KRASO® BKP - Sealing Insert - telecommunication** - clamping range: 5 - 13 mm, 3 x 7 - 13 mm, 13 - 21 mm
 - primary sealing + secondary sealing telecommunication
 - casing pipe end plugs including
 - end plug telecommunication - split -
 - hose connection 80
 - **KRASO® BKP - Sealing Insert - electricity + telecommunication** - clamping range: electricity 25 - 36 mm / telecommunication 2 x 5 - 10 mm, 3 x 7 - 14 mm
 - primary sealing + secondary sealing electricity + telecommunication
 - casing pipe end plugs including:
 - end plug electricity + telecommunication
 - hose connection 80
 - a tube of lubricant
 - **Schuck DN 25** consists of primary and secondary sealing as well as gas end plug
 - **RMA DN 25** consists of primary and secondary sealing as well as gas end plug
 - **Voigt DN 25** consists of primary and secondary sealing as well as gas end plug
 - **Voigt DN 32** consists of primary and secondary sealing as well as gas end plug

Further wall thicknesses available on request!



Single utility connection for heat pumps



✓ Air-to-water heat pump - Split -



KRASO® Builder's Convenience Box - wall - SWP

Utility connection system for air-water heat pumps (split)

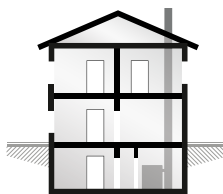
- + Simple and safe single-utility connection for new buildings and rehabilitation of buildings with a basement
 - + For core drilling and casing DN 150 (149 - 153 mm). For precast walls, in-situ concrete walls and brickwork, for wall thicknesses from 160 – 500 mm
 - + External sealing element with flange according to DIN 18533! Seal: 80 mm
 - + With KRASO® Sealing Insert Type SWP with large flange for internal installation.
- Scope of application:**
- For control cables, closed:
 - stepless onion ring technology
 - 2 x 5 - 18 mm, with plug
 - For refrigerant lines, split:
 - ring technology 1 x 6 - 13 mm for 1/4 or 3/8 inch pipes, with plug
 - ring technology 1 x 6 - 18 mm for 1/4, 3/8, 1/2 or 5/8 inch pipes, with plug
- + Radon tightness IAF tested - according to FHRK leaflet MB 101!
 - + DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E

KRASO® Builder's Convenience Box - wall - SWP **LG 5**

single utility connection for control cables and refrigerant lines of air-water heat pumps (split) for buildings with basement | DafStB waterproof concrete guideline: stress class 1 + 2, DIN 18533 W1 -E and W2.1 -E

Type / Item	KRASO® BKP - wall - SWP
Wall thickness from ... to ...	160 - 500 mm
Diameter casing or core drilling min ... max ...	149 - 153 mm
Length complete system	630 mm
Seal width internal sealing element	30 mm
Diameter external sealing element	250 mm
Seal width external sealing element	80 mm
Internal diameter casing pipe	100 mm
External diameter casing pipe	110 mm
KRASO® BKP - wall - SWP	353 €





Scope of supply: KRASO® Builder's Convenience Box - wall - SWP incl. KRASO® Sealing Insert Type SWP with large flange
Further wall thicknesses available on request!



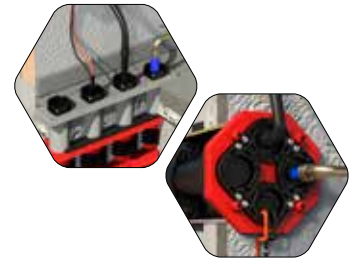
Buildings with basement



KRASO® Builder's Convenience Box
















	- wall -	- wall - ESH	- wall - SWP	- wall - NFE																
Single utility connection system	-	✓	✓	-																
Multi utility connection system	✓	-	-	✓																
Gas	✓	✓	-	-																
Water	✓	✓	-	✓																
Electricity	✓	✓	-	✓																
Telecommunication	✓	✓	-	✓																
Local/geothermal/district heating	-	-	-	✓																
Heat pump	-	-	✓	✓																
DVGW-certified according to VP 601: complete system is gas- and water pressure tight up to 1 bar!	✓	✓	-	-																
External sealing element with flange according to DIN 18533! seal: 80 mm	✓	✓	✓	✓																
Gas- and odour-tight – high-quality in terms of TA-Air!	✓	✓	✓	-																
Radon tightness IAF tested																				
DafStB waterproof concrete guideline / DIN 18533	<table border="1"><tr><td>WU</td><td>W1-E</td></tr><tr><td>1+2</td><td>W2.1-E</td></tr></table>	WU	W1-E	1+2	W2.1-E	<table border="1"><tr><td>WU</td><td>W1-E</td></tr><tr><td>1+2</td><td>W2.1-E</td></tr></table>	WU	W1-E	1+2	W2.1-E	<table border="1"><tr><td>WU</td><td>W1-E</td></tr><tr><td>1+2</td><td>W2.1-E</td></tr></table>	WU	W1-E	1+2	W2.1-E	<table border="1"><tr><td>WU</td><td>W1-E</td></tr><tr><td>1+2</td><td>W2.1-E</td></tr></table>	WU	W1-E	1+2	W2.1-E
WU	W1-E																			
1+2	W2.1-E																			
WU	W1-E																			
1+2	W2.1-E																			
WU	W1-E																			
1+2	W2.1-E																			
WU	W1-E																			
1+2	W2.1-E																			
Diameter casing or core drilling	DN 200 (199 - 203 mm)	DN 100 (99 - 103 mm)	DN 150 (149 - 153 mm)	DN 300 (299 - 303 mm)																
Wall thickness* in mm from ... to ...	200 - 500	160 - 500	160 - 500	200 - 500																
Length complete system in mm	750	630	630	750																
External/internal diameter casing pipe(e) in mm	75/68	75/68	110/100	75/68 110/103,6 (NFE)																
Length x width/diameter of internal sealing element in mm	225 x 225	120 x 120	170	320 x 320																
Diameter/seal width of external sealing element in mm	300/80	160/80	250/80	400/90																
Installation kit	✓	✓	✓	✓																
Scope of application KRASO® BKP - Sealing Insert - electricity/water	26 - 50 mm or blind	26 - 50 mm or blind	-	26 - 50 mm or blind																
Scope of application KRASO® BKP - Sealing Insert - telecommunication	5 - 13 mm 3 x 7 - 13 mm 13 - 21 mm	5 - 13 mm 3 x 7 - 13 mm 13 - 21 mm	-	5 - 13 mm 3 x 7 - 13 mm 13 - 21 mm																
Scope of application KRASO® BKP - Sealing Insert - electricity + telecommunication	electricity 25 - 36 mm telecommunication 2 x 5 - 10 mm 3 x 7 - 14 mm	electricity 25 - 36 mm telecommunication 2 x 5 - 10 mm 3 x 7 - 14 mm	-	electricity 25 - 36 mm telecommunication 2 x 5 - 10 mm 3 x 7 - 14 mm																
Scope of application KRASO® BKP - wall - Sealing Insert - NFE	-	-	-	32, 40, 50, 75, 90, 110 mm or blind, optionally available: 125 mm																
Scope of application KRASO® Sealing Insert Type SWP with large flange	-	-	for control cables, closed: stepless onion ring technology 2 x 5 - 18 mm, with plug for refrigerant lines, split: • onion ring technology 1 x 6 - 13 mm for 1/4 or 3/8 inch pipes, with plug • onion ring technology 1 x 6 - 18 mm for 1/4, 3/8, 1/2 or 5/8 inch pipes, with plug	-																
optionally available KRASO® BKP gas installation kits -	• Schuck DN 25 • RMA DN 25 • Voigt DN 25 • Voigt DN 32	• Schuck DN 25 • RMA DN 25 • Voigt DN 25 • Voigt DN 32	-	-																

* Further wall thicknesses available on request



KRASO® BKP - Sealing Inserts **LG 5**

Installation kits for **KRASO®** Builder's Convenience Box - floor and **KRASO®** Builder's Convenience Box - wall, wall - NFE and wall - ESH: electricity/water, telecommunication, electricity + telecommunication. Tested in accordance with DVGW!

Sealing insert including		Casing pipe end plugs (optional) including			
Primary sealing	Secondary sealing	End plug	Hose connection		
 <p>Primary sealing electricity/water for internal installation of electricity cable or water pipeline clamping range: 26 - 50 mm</p>	 <p>Secondary sealing electricity/water for internal installation of electricity cable or water pipeline</p>	 <p>End plug electricity/water - split - for external installation of electricity cable or water pipeline</p>	 <p>Hose connection 90/80 for KRASO® BKP - floor - 90 for the connection with the casing pipe and fitting of the end plugs for electricity/water - split -</p>	 <p>Hose connection 80 for KRASO® BKP - wall for the connection with the casing pipe and fitting of the end plugs for electricity/water - split -</p>	
 <p>Primary sealing telecommunication for internal installation of the telecommunication lines clamping range: 5 - 13 mm 3 x 7 - 13 mm 13 - 21 mm</p>	 <p>Secondary sealing telecommunication for internal installation of the telecommunication lines</p>	 <p>End plug telecommunication - split - for external installation of the telecommunications lines</p>	 <p>Hose connection 90/80 for KRASO® BKP - floor - 90 for the connection with the casing pipe and fitting of the end plugs for telecommunication - split -</p>	 <p>Hose connection 80 for KRASO® BKP - wall for the connection with the casing pipe and fitting of the end plugs for telecommunication - split -</p>	
 <p>Primary sealing electricity + telecommunication for internal installation of the electricity- and telecommunication lines clamping range: electricity 25 - 36 mm telecomm. 2 x 5 - 10 mm 3 x 7 - 14 mm</p>	 <p>Secondary sealing electricity + telecommunication for internal installation of the electricity- and telecommunication lines</p>	 <p>End plug electricity + telecommunication for external installation of the electricity- and telecommunication lines</p>	 <p>Hose connection 90/80 for KRASO® BKP - floor - 90 for the connection with the casing pipe and fitting of the end plugs for telecommunication - split -</p>	 <p>Hose connection 80 for KRASO® BKP - wall for the connection with the casing pipe and fitting of the end plugs for telecommunication - split -</p>	
Type / Item	- Electricity/water -		- Telecommunication -		- Electricity + telecommunication -
KRASO® BKP - Sealing Insert					54 €
Casing pipe end plugs (optional)					32 €

Scope of supply: as an installation kit for electricity/water, telecommunication or electricity + telecommunication, **KRASO® BKP - Sealing Insert**, including primary sealing and secondary sealing, optionally available casing pipe end plugs including end plug and hose connection 90/80 (floor) or hose connection 80 (wall)



KRASO® BKP Floor Screed Insert 1-fold



KRASO® BKP Floor Screed Insert **LG 5**

for **KRASO®** Builder's Convenience Box - floor - 1- to 4-fold, with height fixation, protection foil and lubricant, adjustable height from 12 to 280 mm or 12 to 590 mm

Type / Item	1-fold	2-fold	3-fold	4-fold
KRASO® BKP Floor Screed Insert (12 - 280 mm)	55 €	109 €	163 €	217 €
KRASO® BKP Floor Screed Insert (12 - 590 mm)	83 €	165 €	248 €	330 €

Scope of supply: **KRASO® BKP Floor Screed Insert** with height fixation, protection foil and lubricant

Further heights on request!



KRASO® BKP Gas Installation Kits **LG 5**

for anti-twist and tear-off protection of gas utility connections, according to DVGW VP 601, incl. primary and secondary elements, gas end plug and self-cutting screws



Type / Item	KRASO® BKP Gas Installation Kits			
Gas utility connection	Schuck DN 25	RMA DN 25*	Voigt DN 25	Voigt DN 32
KRASO® BKP Gas Installation Kit	64 €	64 €	64 €	171 €

* for rigid and flexible designs

Scope of supply: KRASO® BKP Gas Installation Kit



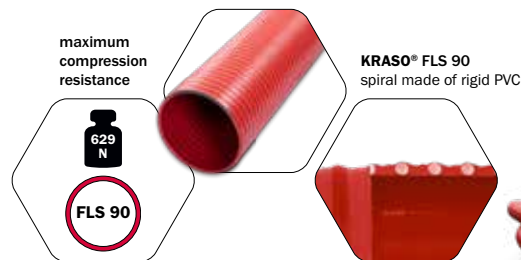
KRASO® BKP - wall - NFE - extension set **LG 5**

for the extension of the casing pipes for water, electricity and telecommunication in the KRASO® Builder's Convenience Box - wall - NFE with a cable protection hose provided on-site



Type / Item	KRASO® BKP - wall - NFE - extension set
KRASO® BKP - wall - NFE - extension set	104 €

Scope of supply: KRASO® BKP - wall - NFE - extension set including 6 x shrink hose 95/25, 3 x adapter hose DN 75



KRASO® FLS 90 - Flexible Empty Pipe System **LG 4**

flexible empty pipe system as a cable protective hose for the extension of the KRASO® Builder's Convenience Box - floor - 90 using the KRASO® extension set, with a smooth interior for easy cable pulling, smooth exterior for optimal sealing, flexible, high axial resistance, resistant to alkalis and acids, resistant to brine and sea water, good UV and ozone resistance, gas-tight and liquid-tight, RoHS-compliant (Restriction of Hazardous Substances), compression resistance 629 N, tests in line with DIN EN 61386-24 lead to the following classifications: Type 250 - Impact resistance: Normal - Classification code: N250



Type / Item	KRASO® FLS 90
InternalDiameter ID in mm	80
External diameter in mm	88
Bending radius in mm	200
Weight in kg/m ca.	1.5
Material thickness in mm	4
Compression resistance	629 N
Classification according to DIN EN 61386-24	N250 (reached test force F: 364 N)
Stock length in m	30
KRASO® FLS	22 € per metre
Cutting cost*	16 €

* without discount

Scope of supply: KRASO® FLS 90