



OKT: SELF-INFLATING SYSTEM FOR OCCUPIED DUCTS

PRODUCT DESCRIPTION

The OKT is recommended for plugging existent ducts with their cables by manual action. Quick and easy to install, it selfinflates in seconds. The product doesn't need either heat or others component to close the duct at the entry point of pipes. Prevents the accumulation of moisture, gas, and liquids in general.

The bladder is fabricated from sheet aluminium, polyethylene, and polyester. It is provided with a system of sealant closing base.

The gas used for inflating the bladder is located in a cartridge Co2 pressure that is activated from the outside.

RECOMMENDATIONS

It is recommended to store the OKT in a dry and closed place and far away from different chemical products. The use of OKT shutter is specified at entry of impermeable pipe (plastic, metal, etc.) to ensure the complete sealing of the pipe. It is important to follow the installation instructions for a correct installation and uninstallation.

PRODUCT FEATURES

Internal pressure of 300 ± 30 Kpa. Used for sealing and shutter occupied ducts subjected to an internal maximum pressure of 50 kPa (5 meter water level in the access manholes).

ADDITIONAL ASSEMBLY ACCESSORIES

The clip and the lubricant are the complementary accessories necessary for the installation of the OKT.



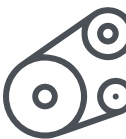
LABORATORY TESTS



TEMPERATURE TEST
20 cycles of 12 hours at 50 kPa of pressure, switching temperature between -15°C and +30°C.



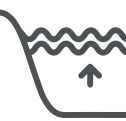
VIBRATION TEST
10 days with 10 Hz frequency cycles, 6 mm amplitude and pressure of 50 kPa.



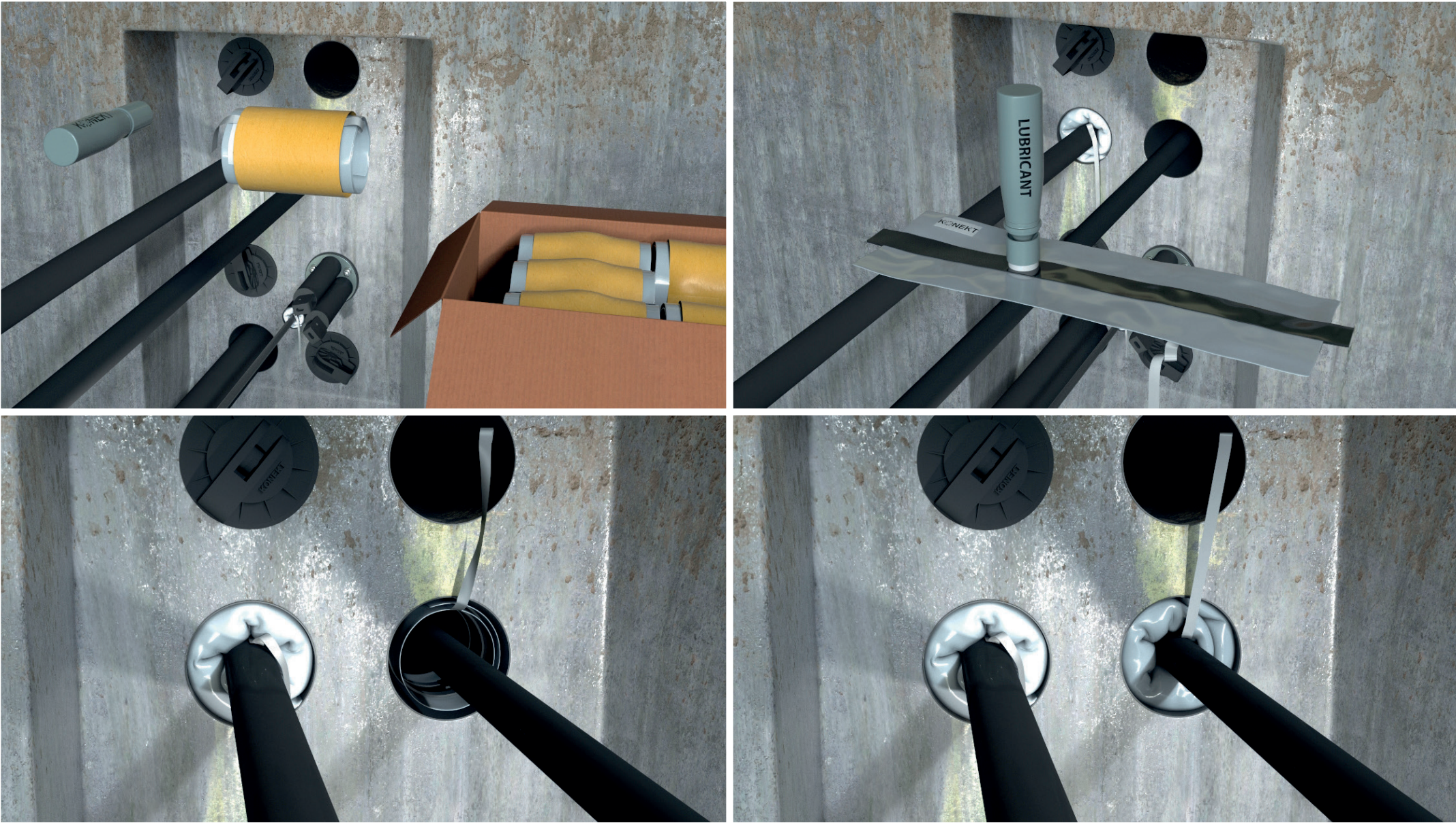
MECHANICAL TESTS
Tensile test D/2 x 10 N (5h), D twisting N (5 min in each direction) and folding action between 35 and 45 degrees (5 min each way).



CHEMICAL RESISTANCE TEST
Chlorhydric acid (pH 2), sodium hydroxide (pH 12), sodium sulfate, sodium chloride, and diesel oil.



LEAK TEST
Water immersion for 48 hours with 50 kPa of pressure in the conduit after the previous tests.



INSTALLATION VIDEO AVAILABLE ON YOUTUBE AND WEBSITE.

SELECTION TABLE OF OKT ACCORDING TO DUCT AND CABLE SIZE

Dimensions tested according to product specifications. For other combinations consult with KONEKT TELECO.

Ø (mm) Duct. Int.	OKT25	OKT32	OKT40	OKT50	OKT63	OKT75	OKT90
20	0 to 12						
25	5 to 15	0 to 15					
30		5 to 20	0 to 17				
35			5 to 22				
40			5 to 25	0 to 20			
45				5 to 25			
50				7 to 30	5 to 27		
55					5 to 33		
60					7 to 40		
65					10 to 45	7 to 40	
70						7 to 47	
75						10 to 55	7 to 50
80						10 to 60	10 to 55
85							10 to 60
90							12 to 65
95							12 to 70
CLIP SELECTION	OKTCR-S	OKTCR-M	OKTCR-L				

Ø (mm) Cond. Int.	OKT110	OKT160	OKT200
90	10 to 60		
95	10 to 67		
100	12 to 75		
105	12 to 80		
110	15 to 85	10 to 75	
115	15 to 90	10 to 80	
120	17 to 95	12 to 85	
125		12 to 90	
130		12 to 95	
135		15 to 100	
140		15 to 105	
145		15 to 110	
150		17 to 115	15 to 105
155		17 to 120	15 to 110
160		17 to 125	15 to 115
165		20 to 130	17 to 120
170			17 to 125
175			17 to 130
180			20 to 135
185			20 to 140
190			20 to 145
195			22 to 150
200			22 to 155
205			22 to 160
CLIP SELECTION	OKTCR-L	OKTCR-XL	



FISS: SELF-INFLATING SYSTEM FOR OCCUPIED DUCTS FIRESTOP SEALING SYSTEM

PRODUCT DESCRIPTION

The **FISS (Firestop Sealing System)**, is recommended for plugging existent ducts with their cables by manual action. It adds excellent fire resistance thanks to an innovative system placed inside.

The bladder is fabricated from sheet aluminium, polyethylene, and polyester. It is provided with a system of sealant closing base. The gas used for inflating the bladder is located in a cartridge CO2 pressure that is activated from the outside.

RECOMMENDATIONS

It is recommended to store the FISS in a dry and closed place and far away from different chemical products. The use of FISS shutter is specified at entry of impermeable pipe (plastic, metal, etc.) to ensure the complete sealing of the pipe. It is important to follow the installation instructions for a correct installation and uninstallation (same instructions that the OKT).

The FISS is environmentally friendly.

PRODUCT FEATURES


Internal pressure of 300 ± 30 kPa. Used for sealing and shutter occupied ducts subjected to an internal maximum pressure of 50 kPa (5 meter water level in the access manholes).


COMPLEMENTARY ASSEMBLY ACCESSORIES

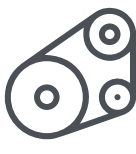
The clip and the lubricant are the complementary accessories necessary for the installation of the FISS.




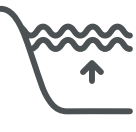
LABORATORY TESTS

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TEMPERATURE TEST
20 cycles of 12 hours at 50kPa of pressure, switching temperature between -15°C and +30°C.
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VIBRATION TEST
10 days with 10 Hz frequency cycles, 6 mm amplitude and pressure of 50 kPa.
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MECHANICAL TESTS
Tensile test D/2 x 10 N (5h), D twisting N (5 min in each direction) and folding action between 35 and 45 degrees (5 min each way).
- 

CHEMICAL RESISTANCE TEST
Chlorhydric acid (pH 2), sodium hydroxide (pH 12), sodium sulfate, sodium chloride, and diesel oil.
- 

LEAK TEST
Water immersion for 48 hours with 50 kPa of pressure in the conduit after the previous tests.



FIRE RESISTANCE
Ta > 1000°C. EI 120, according UNE EN 1366-1.



FISS SELECTION TABLE ACCORDING TO CABLE AND DUCT SIZE

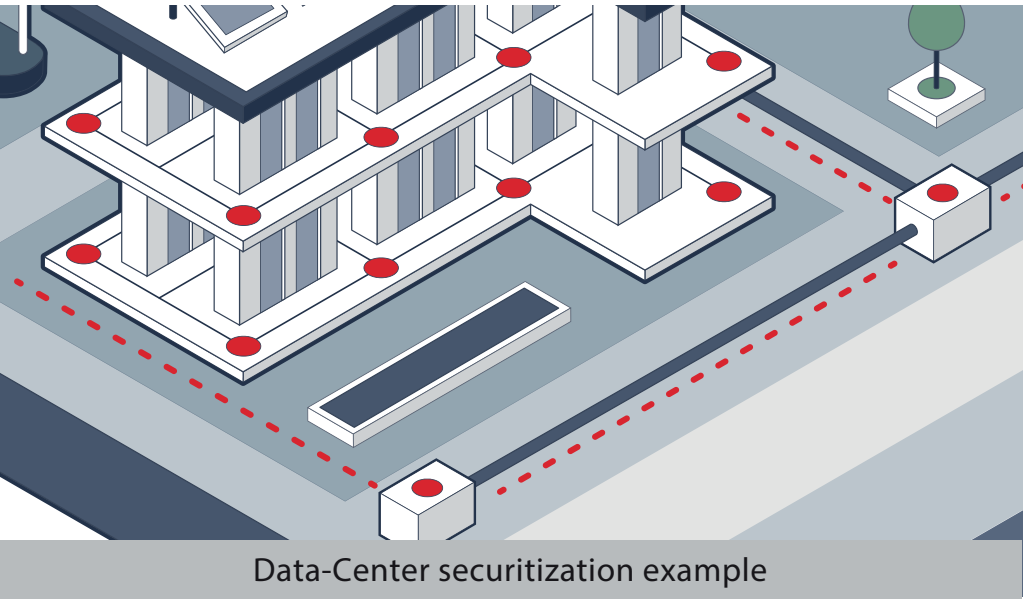
Dimensions tested according to product specifications. For other combinations consult with KONEKT.

Ø (mm) Duct. int.	FISS25	FISS32	FISS40	FISS50	FISS63	FISS75	FISS90	FISS110	FISS160	FISS200
20	Cable 0 to 10mm									
25	Cable 5 to 12mm	Cable 0 to 12mm								
30		Cable 5 to 17mm	Cable 0 to 15mm							
35			Cable 5 to 17mm							
40			Cable 5 to 22mm	Cable 0 to 15mm						
45				Cable 5 to 17mm						
50				Cable 7 to 27mm	Cable 5 to 25mm					
55					Cable 5 to 30mm					
60					Cable 7 to 35mm					
65					Cable 10 to 40mm	Cable 7 to 35mm				
70						Cable 7 to 42mm				
75						Cable 10 to 48mm	Cable 7 to 45mm			
80						Cable 10 to 55mm	Cable 10 to 50mm			
85							Cable 10 to 55mm			
90							Cable 12 to 60mm	Cable 10 to 55mm		
95							Cable 12 to 65mm	Cable 10 to 62mm		
100								Cable 12 to 70mm		
105								Cable 12 to 75mm		
110								Cable 15 to 80mm	Cable 10 to 75mm	
115								Cable 15 to 85mm	Cable 10 to 80mm	
120								Cable 17 to 90mm	Cable 12 to 85mm	
125									Cable 12 to 90mm	
130									Cable 12 to 95mm	
135									Cable 15 to 100mm	
140									Cable 15 to 105mm	
145									Cable 15 to 110mm	
150									Cable 17 to 115mm	Cable 15 to 105mm
155									Cable 17 to 120mm	Cable 15 to 110mm
160									Cable 17 to 125mm	Cable 15 to 115mm
165									Cable 20 to 130mm	Cable 17 to 120mm
170										Cable 17 to 125mm
175										Cable 17 to 130mm
180										Cable 20 to 135mm
185										Cable 20 to 140mm
190										Cable 20 to 145mm
195										Cable 22 to 150mm
200										Cable 22 to 155mm
205										Cable 22 to 160mm
CLIP SELECTION	OKTCR-S		OKTCR-M		OKTCR-L			OKTCR-XL		

FISS UTILISATION (FIRESTOP SEALING SYSTEM)

With the FISS, KONEKT has managed to develop a new product that extends the properties of OKT, by adding a fire protection. This passive fire protection allows to act as a fire door in strategic places where the FISS is installed.

In effect, the FISS is a direct response against fires and allows the expansion of fire to be retarded, thus protecting the infrastructures.



POSSIBLE APPLICATION FISS ZONES

STRATEGIC AREAS

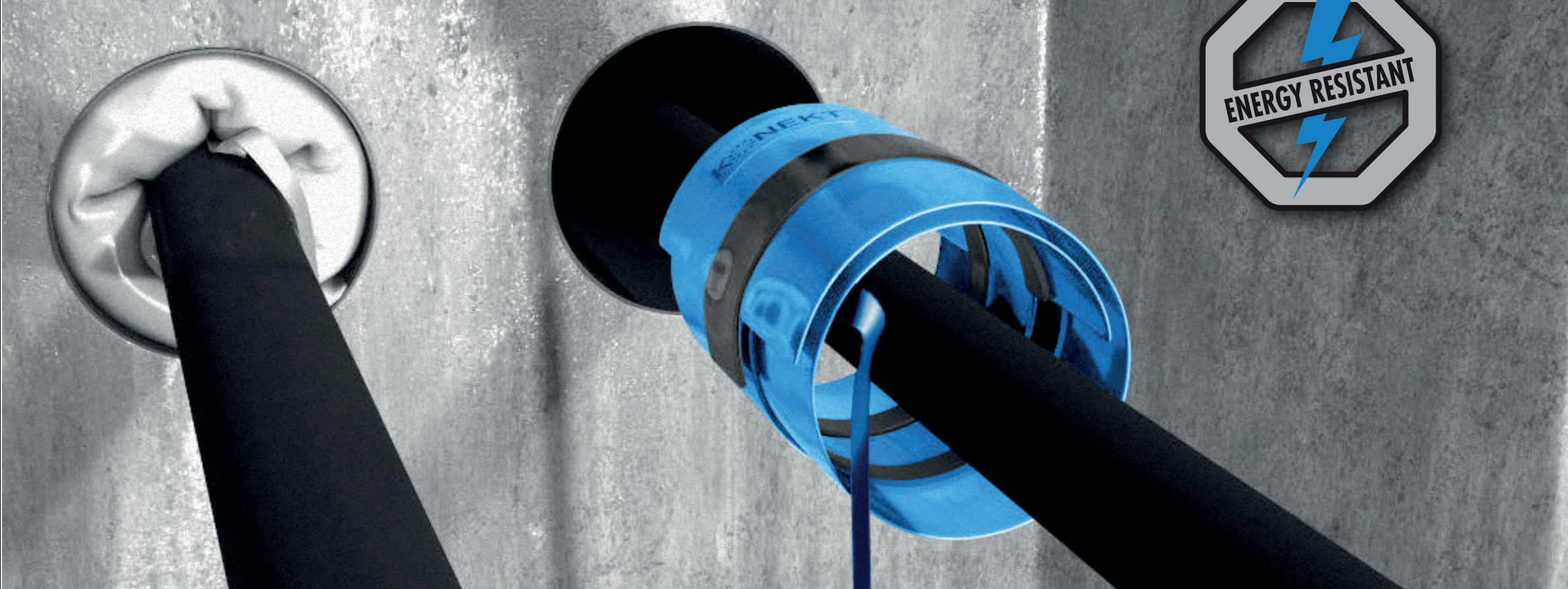
- Data-Centers
- Airports
- Business centers
- Military bases
- Publics Services

RESIDENTIAL AREAS

- Buildings in general

Several points of intervention and control against fires are foreseen in the set of many buildings, why not protect the optical fiber with the importance that it has at present?

The FISS is designed to withstand more than 2 hours in case of fire, so the installation will be protected until the intervention of the means of extinction. The FISS works like a fire door and prevents the spread of fumes and gases harmful to people.



OKE: SELF-INFLATING SYSTEM FOR OCCUPIED DUCTS AND POWER CABLES

PRODUCT DESCRIPTION

The OKE is specially manufactured for the energy sector and allows to easily seal ducts with existing cables by manual action. Quick and easy to install, it self-inflates in seconds.

The product doesn't need either heat or others component to close the duct at the entry point of pipes. Prevents the accumulation of moisture, gas, and liquids in general.

The lining of the product is made of very resistant materials, using sheets of aluminum and reinforced polyethylene. It is provided with a system of sealant closing base.

The product is easy to use and is activated from the outside.

RECOMMENDATIONS

It is recommended to store the OKE in a dry and closed place and far away from different chemical products. The use of OKT shutter is specified at entry of impermeable pipe (plastic, metal, etc.) to ensure the complete sealing of the pipe. It is important to follow the installation instructions for a correct installation and uninstallation.

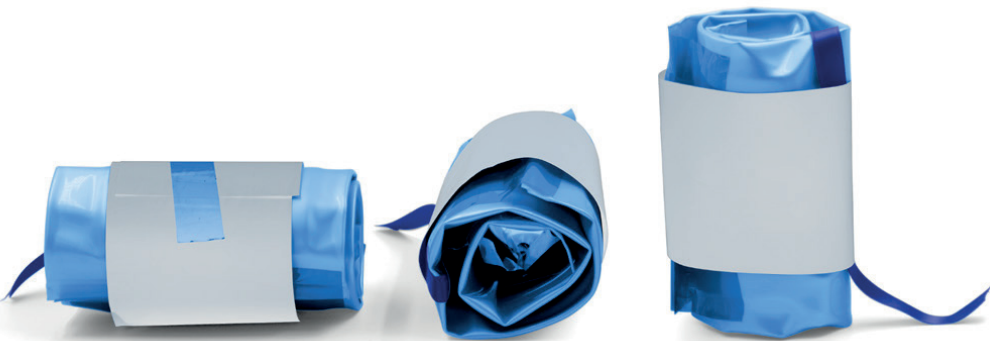
PRODUCT FEATURES

Internal pressure of 300 ± 30 kPa. Used for sealing and shutter occupied ducts subjected to an internal maximum pressure of 50 kPa (5 meter water level in the access manholes).

Resists cable overheating.

ADDITIONAL INSTALLATION ACCESSORIES

The clip and the lubricant are the complementary accessories necessary for the installation of the OKE.



LABORATORY TESTS



TEMPERATURE TEST
20 cycles of 12 hours at 50 kPa of pressure, switching temperature between -15°C and +30°C.



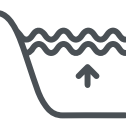
VIBRATION TEST
10 days with 10 Hz frequency cycles, 6 mm amplitude and pressure of 50 kPa.



MECHANICAL TESTS
Tensile test D/2 x 10 N (5h), D twisting N (5 min in each direction) and folding action between 35 and 45 degrees (5 min each way).



CHEMICAL RESISTANCE TEST
Chlorhydric acid (pH 2), sodium hydroxide (pH 12), sodium sulfate, sodium chloride, and diesel oil.



LEAK TEST
Water immersion for 48 hours with 50 kPa of pressure in the conduit after the previous tests. Gas tightness.



THERMAL STRESS
More than 200 h, 90°C with 200°C peaks.



POWER CABLE RESISTANCE
Maximum Temperature greater than 90°C



OKE SELECTION TABLE ACCORDING TO CABLE AND DUCT SIZE

Dimensions tested according to product specifications. For other combinations consult with KONEKT.

Ø (mm) Duct. Int.	OKE25*	OKE32*	OKE40*	OKE50*	OKE63	OKE75	OKE90
20	0 to 12						
25	5 to 15	0 to 15					
30		5 to 20	0 to 17				
35			5 to 22				
40			5 to 25	0 to 20			
45				5 to 25			
50				7 to 30	5 to 27		
55					5 to 33		
60					7 to 40		
65					10 to 45	7 to 40	
70						7 to 47	
75						10 to 55	7 to 50
80						10 to 60	10 to 55
85							10 to 60
90							12 to 65
95							12 to 70
CLIP SELECTION	OKECR-S	OKECR-M	OKECR-L				

Ø (mm) Duct. Int.	OKE110	OKE160	OKE200
90	10 to 60		
95	10 to 67		
100	12 to 75		
105	12 to 80		
110	15 to 85	10 to 75	
115	15 to 90	10 to 80	
120	17 to 95	12 to 85	
125		12 to 90	
130		12 to 95	
135		15 to 100	
140		15 to 105	
145		15 to 110	
150		17 to 115	15 to 105
155		17 to 120	15 to 110
160		17 to 125	15 to 115
165		20 to 130	17 to 120
170			17 to 125
175			17 to 130
180			20 to 135
185			20 to 140
190			20 to 145
195			22 to 150
200			22 to 155
205			22 to 160
CLIP SELECTION	OKECR-L	OKECR-XL	

OKE, THE SOLUTION FOR YOUR ELECTRICAL NETWORKS



OKE installation with several power cables.



The installed product guarantees a perfect seal.

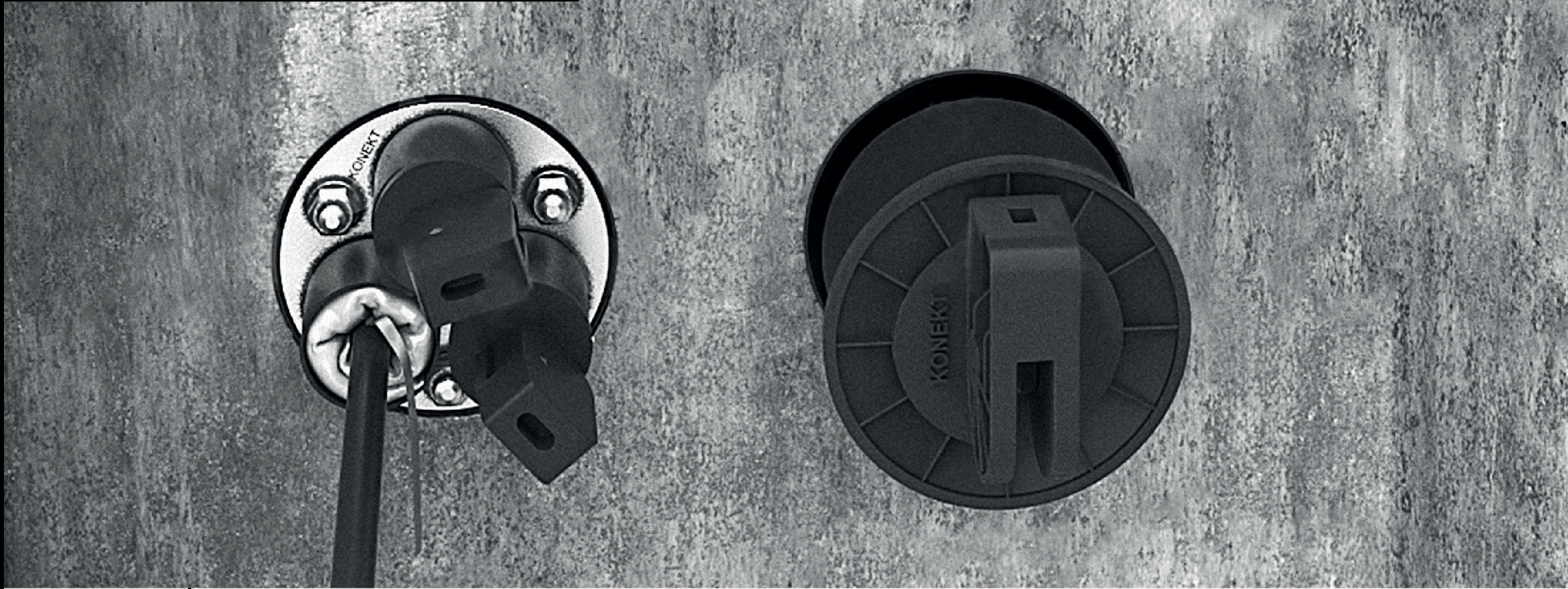
USE OF THE OKE

With OKE, KONEKT has developed a new product that extends the properties of OKT, for power cables.

This passive protection withstands overheating temperatures above 90°C, preserving the properties of the product.

The power cable cover will begin to degrade before that time:

INSULATING	OPERATING LIMIT TEMPERATURE (°C)
Polyethylene	90
PVC	70
Polypropylene	90



TO: DUCT PLUG FOR EMPTY DUCTS

PRODUCT DESCRIPTION

Used to seal and seal temporarily empty subterranean duct, ie without cable.

Ensure that in the future these ducts will be in perfect condition for facilities subconducts or cables, prevented the entry of liquids, chemicals, dirt, gases, rodents, and any other element that can hinder and even prevent the use of the duct.

PRODUCT FEATURES

Quick and easy installation, saving time in assembly and disassembly. Duct sealing and sealing plastic, metal and even cement (depending on the permeability of the latter) supporting an internal pressure 50 KPa above.

Reusable, once uninstalled can be reinstalled again as many times as needed.

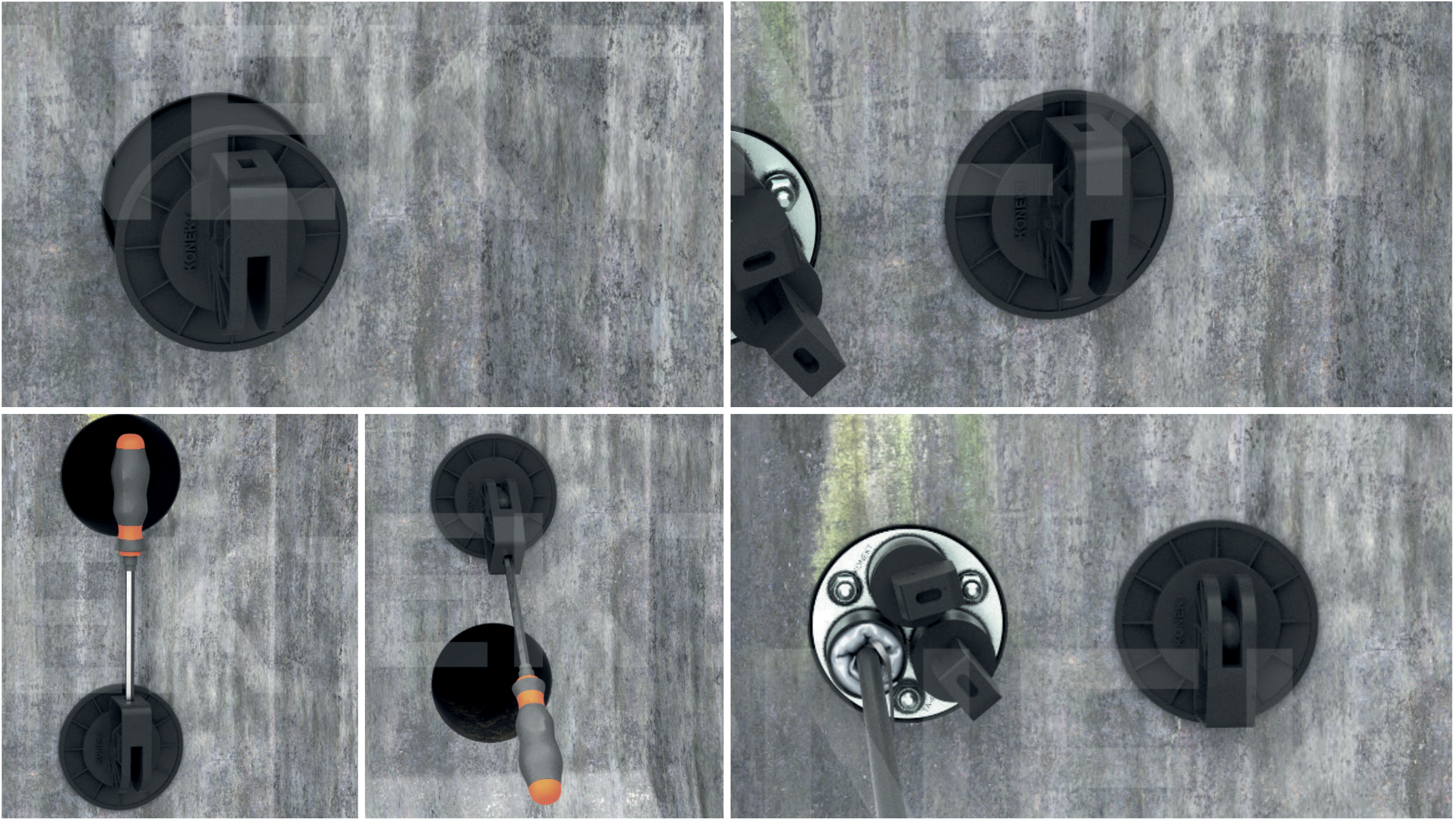
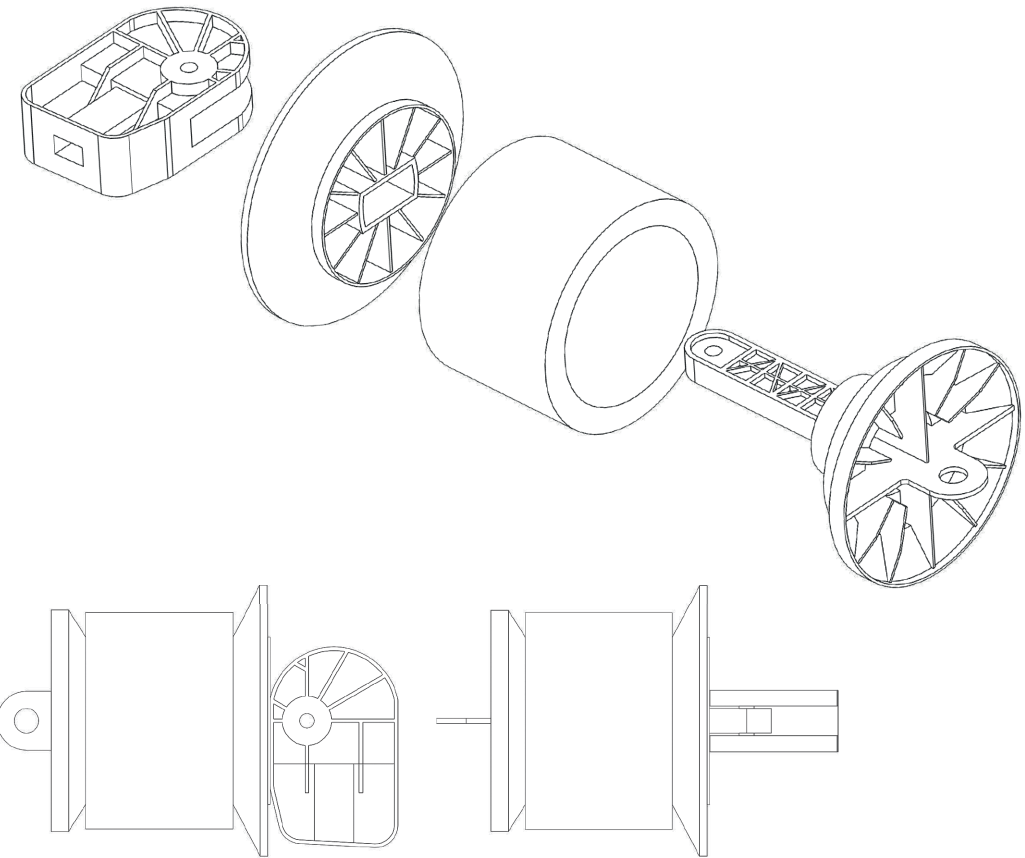
Minimum useful life 20 years. The plug of KONEKT ensures reliable and secure installation for many years.

Model	Ref.	Ø mm Duct. Ext.	Ø mm Duct. Int.
TO20	TO20	20	15-17,5
TO22	TO22	22	17,5-20
TO25	511380	25	20-23
TO32	511381	32	27,5-30
TO40	546151	40	32-35,5
TO50	TO50	50	40-46,5
TO63 Corrugated	020033	63	48-52
TO63 PEAD	511471	63	52-56
TO63	511382	63	56-61
TO90	544833	100	91-96
TO100	545619	110	95-100
TO110	544825	110	102-108

LABORATORY TESTS

- TEMPERATURE TEST
20 cycles of 12 hours at 50kPa of pressure, switching temperature between -15°C and +30°C.
- FATIGUE
50 install and unistall cycles.
- MECHANICAL TESTS
Load test between 30-300 Kg depending on the model.
- LEAK TEST
Water immersion for 48 hours with 50 kPa of pressure in the conduit after the previous tests.

PLANIMETRY



INSTALLATION VIDEO AVAILABLE ON YOUTUBE AND WEBSITE.



TO32
Empty duct
Ref. 511381

TO63
Empty duct
Ref. 511382

TO110
Empty duct
Ref. 544825

