

Tie Technology DK, SK Reliable sealing of tie points

Product Brochure – Issue 01/2018



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Important information

All current safety regulations and guidelines applicable in those countries where our products are used must be observed.

The photos shown in this brochure feature construction sites in progress. For this reason, safety and anchor details in particular cannot always be considered as conclusive or final. These are subject to the risk assessment carried out by the contractor.

In addition, computer graphics are used which are to be understood as system representations. For ensuring a better understanding, these and the detailed illustrations shown have been partially reduced to show certain aspects. The safety installations which have possibly not been shown in these detailed descriptions must nevertheless still be available. The systems or items shown might not be available in every country.

Safety instructions and load specifications are to be strictly observed at all times. Separate structural calculations are required for any deviations from the standard design data.

The information contained herein is subject to technical changes in the interests of progress. Errors and typographical mistakes reserved.



Tie Technology DK, SK

The difficulties

The conventional methods used to waterproof tie points are, in practice, not reliable. During hardening, shrinkage cracks form in the concrete which run through the entire wall thickness along the tie point. Difficulties also arise during striking. Construction sequences require striking to take place just one day after concreting. In the process, the tie rod nut is released by means of several hammer blows. Tie rods and mounting parts can therefore be shaken through the vibrations. Furthermore, the tension force of the tie rod acts in one direction after the release of one formwork half. This results in the formation of hairline cracks around the mounting parts. The customary expansion of the tie rod during concreting, and the inevitable compression when being released, results in cracks being formed between the tie rod and concrete.

The requirements

The two variants from PERI fully meet the requirements.

In order to seal the tie points, great care must be taken regardless of the method used.

PERI has developed a new technique for the subsequent sealing of tie points. Thereby, there is a much better chance of achieving dense and tight walls rather than using conventional solutions.By sealing the tie points, the end result can still be influenced whereas embedded sealing components are no longer accessible. And the experienced operator knows just how many uncertainties are involved in concreting and curing.

The solution

- PERI Tie Systems DK and SK are:
- waterproof
- gas impermeable
- fire-resistant F 90
- soundproof

Faulty mounting of waterstop centre piece

One very common installation error is working with spacer tubes on the two tie rods on either side of the mounted component. These permeable tubes allow the water to penetrate right into the middle of the wall thus making the expensive waterstop centre piece ineffective.

Faulty mounting of fibre concrete spacer tube

The biggest disadvantage is that the tubes can split. One hammer blow too many or slight overtightening of the nuts leads to cracking or splitting of the fibre concrete spacer tubes. The safe solution With PERI Tie Technology DK and SK.



Shrinkage crack formation endangers the water impermeability with waterstop centre pieces ...



.. as well as with concreted tie rods



A tightly closed tie point is the most cost-effective!

The right solution for all requirements

DK Sealing Cone System

Advantages

- DK Sealing Cones can be effortlessly unscrewed with the cone spanner.
- DK Sealing Cones can be re-used many times.
- All DK Sealing Cones DW 15, 20, 26 have the same outside form, i.e. one concrete cone fits all cone openings.
- Targeted use for dealing with seepage water.
- Waterproof concrete, soundproof and fireproof walls for wall thicknesses up to 60 cm.

Application

The system consists of 2 re-usable DK Sealing Cones and one concreted Spacer Tube. The end-to-end tie rod is advantageous when shuttering. The Sealing Ring DW 15 between the cone and formwork compensates for any unevenness, and prevents laitance trickling in.



SK Tie Cone System

Advantages

- SK Tie Cones have a long service life. Plastic tubes can be replaced.
- SK Tie Cones can be simply unscrewed for ease of striking.
- Used for walls in high security areas with lost tie rods.
- Can also be used as a stable spacer with tube for wall thicknesses greater than 60 cm. The tie rod is re-usable.

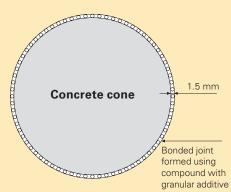
Application

The SK System consists of 2 re-usable SK Tie Cones and 3 tie rods, the middle one of which can be embedded in the concrete (e.g. for vaults and strongrooms, and buildings providing radiation protection). For all other applications, a spacer tube is used to enable the middle tie rod to be recovered. The closing process with the Sealing Ring DW 15, 20, 26 is carried out similar to the handling with the DK Sealing System.



The concrete cones

- Smooth non-porous surface
- Grey concrete colour
- Hardness strength in the centre 100 N/mm²
- Imperviousness tested on the basis of DIN 1048 Part 5 (corresponds to 50 m head of water)



A granular material with particles of a suitable size for the gap is added to the sealing compound which centres the concrete cone in the pocket, and prevents any settling.

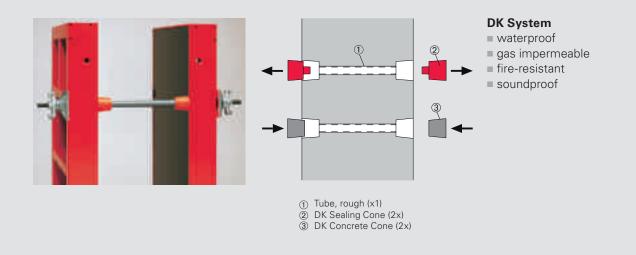
Sealing compound

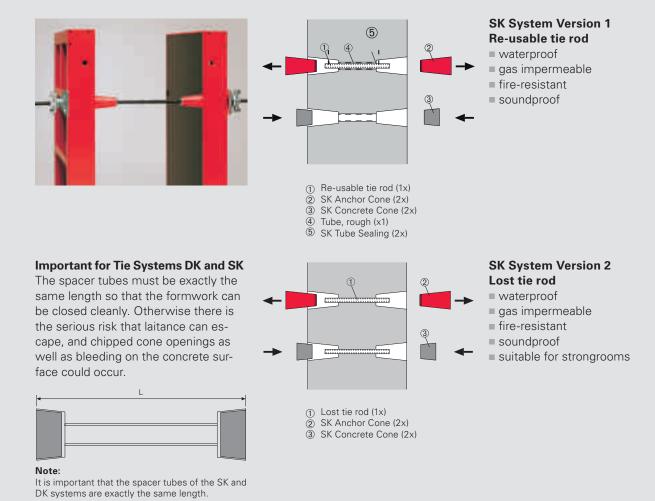
- 2-component adhesive
- Grey concrete colour
- Processing time of 1 hour at 23 °C
- Salt water resistant
- Heat and cold resistant

Acid resistant to limited extent
 In accordance with the KTW recommendation concerning the levels of polymers in drinking water and the recommendation of the DVGW (German Technical and Scientific Association for Gas and Water) suitable for:

drinking water tanks

containers for foodstuffs





Careful working procedures guarantee tight and clean tie points

Removing the DK Sealing Cone

After striking, the DK Sealing Cone is removed by means of the DK Cone Spanner UNI. The spanner is simply fitted on the cone, then slightly turned and pulled out together with the sealing cone. The cones can be re-used.

A careful working procedure when installing the spacer tubes results in tight and clean tie points.



Removing the DK Sealing Cones with the DK Cone Spanner UNI.

Installing the Concrete Cone

Important:

The surface of the cone opening must be dry and free of ice, grease and dust. The surface temperature of the sealing compound, cone and surrounding concrete must be min. + 5 $^{\circ}$ C.



Coat the cleaned pocket sparingly with the sealing compound.



Hold the concrete cone with a pair of cone pliers, and coat its tapered surface and end evenly with sealing compound.

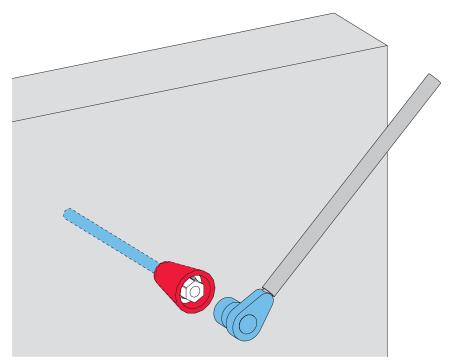


Insert the concrete cone into the pocket, and turn slightly several times to ensure that the sealing compound is evenly spread.

Removing the SK Tie Cone

The following tools are needed to remove the SK Tie Cones:

| Cone | ΤοοΙ |
|----------------|---------------------|
| SK Anchor Cone | Socket SW 27 – 1/2* |
| DW 15 | item no. 029650 |
| SK Anchor Cone | Socket Wrench SW 36 |
| DW 20 | item no. 031480 |
| SK Anchor Cone | Socket SW 46 – 1* |
| DW 26 | item no. 029630 |



Depending on the SK Tie Cone used, the Socket SW 27, 36 or 46 is required.



Tap the concrete cone flush with the cone gauge.



Scrap the surplus compound off with a filling knife.



A clean and tight tie point with the PERI Tie System.

Special application features

Waterproof concrete

Waterproof is not the same as impermeable to water

"Impermeable to water" is used to describe materials and components into which water cannot penetrate. With "waterproof" components, more water evaporates from the side facing away than penetrates the side in contact with the water.

This means

With sealing cones which are less than 50 mm in length, there is a risk of water penetrating in the vicinity of the tie point, getting round the cone and passing along the shrinkage crack around the spacer tube. For this reason, the Sealing Cones DW 15/55 DK or SK Tie Cones DW 15 should always be used for waterproof concrete.

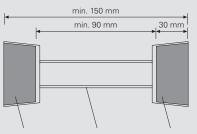
Gas-proof concrete

Gas-proof is not the same as gas-tight.

The PERI Tie Systems do not affect the diffusion resistance of concrete walls.

Fire protection

When complying with the measures represented in the drawing, the tie point created with the PERI Tie System DK or SK does not have any negative impact on Fire Resistance Class F 90 according to DIN 4102, Part 4.



Concrete Cone Spacer Tube Concrete Cone

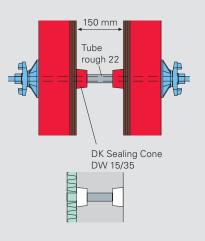
A tie point formed in this way corresponds to DIN 4102, Part 4 requirements and thus complies with Fire Resistance Class F 90 specifications. Also possible with DK Concrete Cone UNI 58/52.

If the Concrete Cone DW 15-58/30 is installed in an offset manner, the Repoxal Adhesive 031550 must be used. In that case the tie point does not comply with Fire Resistance Class F 90.

Soundproofing

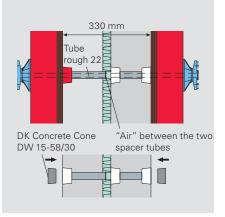
Airborne sound

Regardless of the wall thickness, the use of the DK and SK systems does not have any measurable negative influences on the airborne sound insulation of the walls. This applies to all wall thicknesses, with or without insulating board fitted.



Structure-borne sound

With cavity walls, please note that the spacer tubes are not continuous in the area of the insulation. The recommendations for preventing transmission of airborne sound in cavity walls are the same as for solid walls.



Architectural concrete

For different architectural requirements, other concrete cone variants can be used, e.g. recessed or with shadow joint (the colour of the cones may vary).

Single-sided shuttering against sheet piling

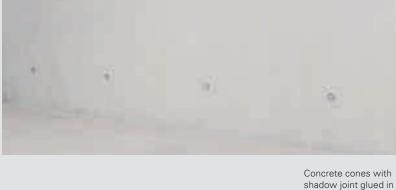
With reusable tie rod.

Version 1:



Weldable Tie DW 15, DK Cone Tie Rod, continuous item no. 031300 DK Concrete Cone UNI Lost tube, rough 58/52, item no. 031643 Version 2: With lost tie rods. Weldable Tie DW 15, SK Cone turned item no. 031300

DK Concrete Cone UNI 58/52, item no. 031643



DK Concrete Cone DW 15-58/30, item no. 031642

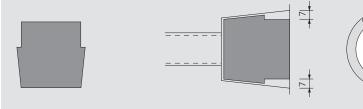


7-9

place.

Shadow joint

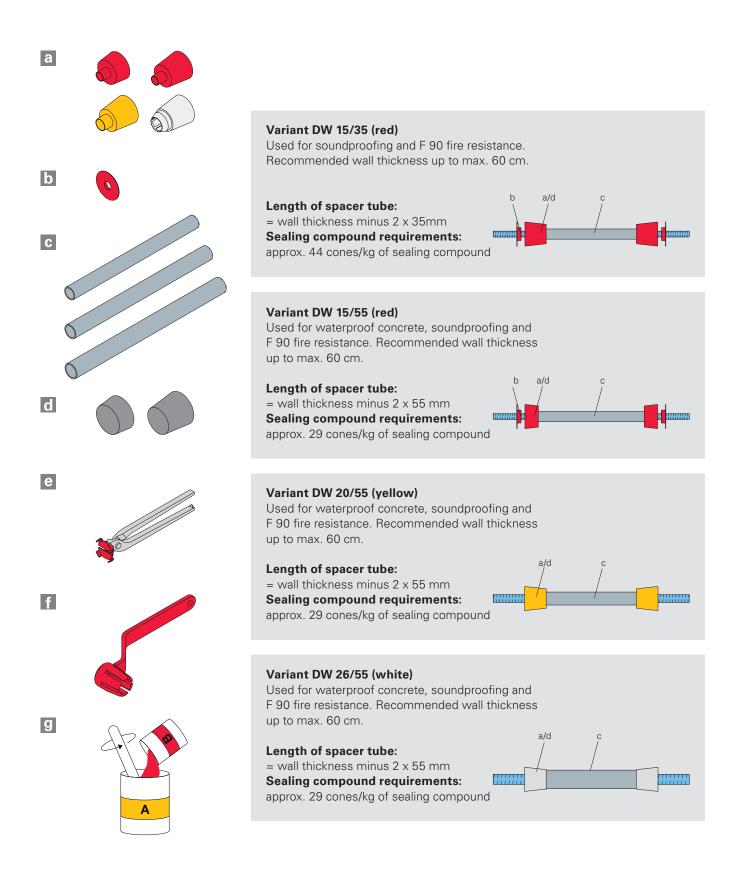
DK Concrete Cone Architectural 01 DW 15-58/52, item no. 031641





DW 15 lost

DK Sealing Cones

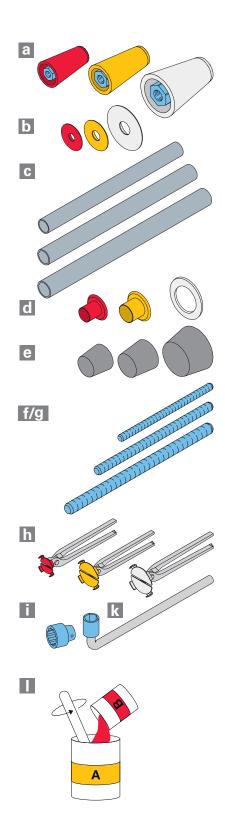


| Com- po- nent | ltem no. | Designation | re-usable | | | |
|---------------------|------------------|---|-----------|--|--|--|
| Varia | Variant DW 15/35 | | | | | |
| а | 031635 | DK Sealing Cone DW 15/35 | × | | | |
| b | 031639 | SK Sealing Ring UNI DW 15 | × | | | |
| С | 065027 | Tube rough 22, L = 2.0 m | | | | |
| d | 031642 | DK Concrete Cone DW 15-58/30 | | | | |
| е | 031644 | DK Cone Pliers 58 | × | | | |
| f | 031655 | DK Cone Spanner UNI | × | | | |
| g | 131709 | Sealing Compound-3 / Set of 6 Tins | | | | |
| Varia a | nt DW 15/5 | 55 DK Sealing Cone DW 15/55 | × | | | |
| a b | 031636 | | | | | |
| | 065027 | SK Sealing Ring UNI DW 15 Tube rough 22, L = 2.0 m | × | | | |
| | 031643 | DK Concrete Cone UNI 58/52 | | | | |
| e | 031644 | DK Cone Pliers 58 | × | | | |
| f | 031655 | DK Cone Spanner UNI | × | | | |
| g | 131709 | Sealing Compound-3 / Set of 6 Tins | | | | |
| Variant DW 20/55 | | | | | | |
| а | 031637 | DK Sealing Cone DW 20/55 | × | | | |
| С | 031626 | Tube rough 28, L = 3.0 m | | | | |
| | | | | | | |

| С | 031626 | Tube rough 28, L = 3.0 m | |
|---|--------|------------------------------------|---|
| d | 031643 | DK Concrete Cone UNI 58/52 | |
| е | 031644 | DK Cone Pliers 58 | × |
| f | 031655 | DK Cone Spanner UNI | × |
| g | 131709 | Sealing Compound-3 / Set of 6 Tins | |

| Variant DW 26/55 | | | |
|------------------|--------|------------------------------------|---|
| а | 031638 | DK Sealing Cone DW 26/55 | × |
| С | 031634 | Tube rough 42, $L = 3.0 \text{ m}$ | |
| d | 031643 | DK Concrete Cone UNI 58/52 | |
| е | 031644 | DK Cone Pliers 58 | × |
| f | 031655 | DK Cone Spanner UNI | × |
| g | 131709 | Sealing Compound-3 / Set of 6 Tins | |

SK Anchor Cones



Variant DW 15 (red)

Used for waterproof concrete, gasproof concrete, soundproofing and F 90 fire resistance. If used without spacer tubes, still suitable for radiation-proof walls and high security areas. Recommended wall thickness from 24 cm.

Length of spacer tube: = wall thickness minus 2 x 107 mm

Length of Tie Rod DW 15:

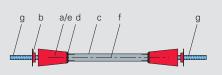
= wall thickness minus 2 x 55 mm Sealing compound requirements: approx. 29 cones/kg of sealing compound

Variant DW 20 (yellow)

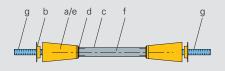
Used for waterproof concrete, gasproof concrete, soundproofing and F 90 fire resistance. If used without spacer tubes, still suitable for radiation-proof walls and high security areas. Recommended wall thickness from 30 cm. Length of spacer tube: = wall thickness minus 2 x 130 mm Length of Tie Rod DW 20: = wall thickness minus 2 x 65 mm Sealing compound requirements: approx. 22 cones/kg of sealing compound

Variant DW 26 (white)

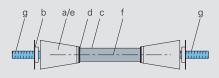
Used for waterproof concrete, gasproof concrete, soundproofing and F 90 fire resistance. If used without spacer tubes, still suitable for radiation-proof walls and high security areas. Recommended wall thickness from 35 cm. Length of spacer tube: = wall thickness minus 2 x 142 mm Length of Tie Rod DW 26: = wall thickness minus 2 x 75 mm Sealing compound requirements: approx. 13 cones/kg of sealing compound



When using the SK Sealing Ring with SK Tie Cone, the tie rod must be shortened by 1 mm at each end.



When using the SK Sealing Ring with SK Tie Cone, the tie rod must be shortened by 1.5 mm at each end.



When using the SK Sealing Ring with SK Tie Cone, the tie rod must be shortened by 2 mm at each end.

| Com- po- nent | ltem no. | Designation | re-usable |
|---------------------|----------|------------------------------------|-----------|
| Varia | nt DW 15 | | |
| а | 126609 | SK Anchor Cone DW 15 / 2 | × |
| b | 031639 | SK Sealing Ring UNI DW 15 | × |
| С | 065027 | Tube rough 22, L = 2.0 m | |
| d | 031671 | SK Tube Seal 22 | |
| е | 031643 | DK Concrete Cone UNI 58/52 | × |
| f | 030030 | Tie Rod DW 15, Special Length | × |
| g | 030030 | Tie Rod DW 15, Special Length | × |
| h | 031644 | DK Cone Pliers 58 | × |
| i | 029650 | 12-point Nut SW 27 - 1/2" | × |
| k | 072180 | Ratchet Wrench 1/2" | × |
| 1 | 131709 | Sealing Compound-3 / Set of 6 Tins | |
| Varia | nt DW 20 | | |
| а | 031646 | SK Anchor Cone DW 20 | × |
| b | 031648 | SK Sealing Ring DW 20 | × |
| С | 031626 | Tube rough 28, L = 3.0 m | |
| d | 031672 | SK Tube Seal 28 | |
| е | 031650 | SK Concrete Cone DW 20-67/60 | |
| f | 030700 | Tie Rod DW 20, Special Length | |
| g | 030700 | Tie Rod DW 20, Special Length | × |
| h | 031656 | SK Cone Pliers 67 | × |
| i | 031480 | Socket Wrench SW 36 | × |

| Variant DW 26 | | | |
|---------------|--------|------------------------------------|---|
| а | 031647 | SK Anchor Cone DW 26 | × |
| b | 031649 | SK Sealing Ring DW 26 | × |
| С | 031634 | Tube rough 42, $L = 3.0 \text{ m}$ | |
| d | 126013 | Seal Ring 60 x 15 x 4, EPDM | |
| е | 031651 | SK Concrete Cone DW 26-100/60 | |
| f | 030340 | Tie Rod DW 26, Special Length | |
| g | 030340 | Tie Rod DW 26, Special Length | × |
| h | 031657 | SK Cone Pliers 100 | × |
| i | 029630 | 12-point Nut SW 46 - 1" | × |
| k | 029610 | Ratchet Wrench 1" | × |
| I | 131709 | Sealing Compound-3 / Set of 6 Tins | |

1

131709

Sealing Compound-3 / Set of 6 Tins

Tie Technology DK, SK



Sewage works in Hameln, Germany.

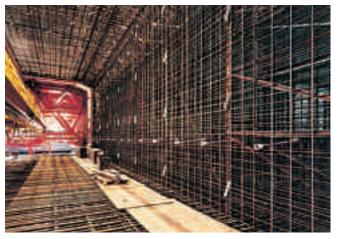


B311 Local Bypass Tunnel, Ertingen, Germany.



Other examples of completed projects:

- Käppala Sewage Works 2001, Sweden
- Izmit Sewage Works, Turkey
- Sewage works in Villach, Austria
- Elevated Tanks in Weilheim, Germany
- Gaggenau Groundwater Reservoir, Germany
- Seitschen Bridge, Germany
- Spremberg Housing Development, Germany



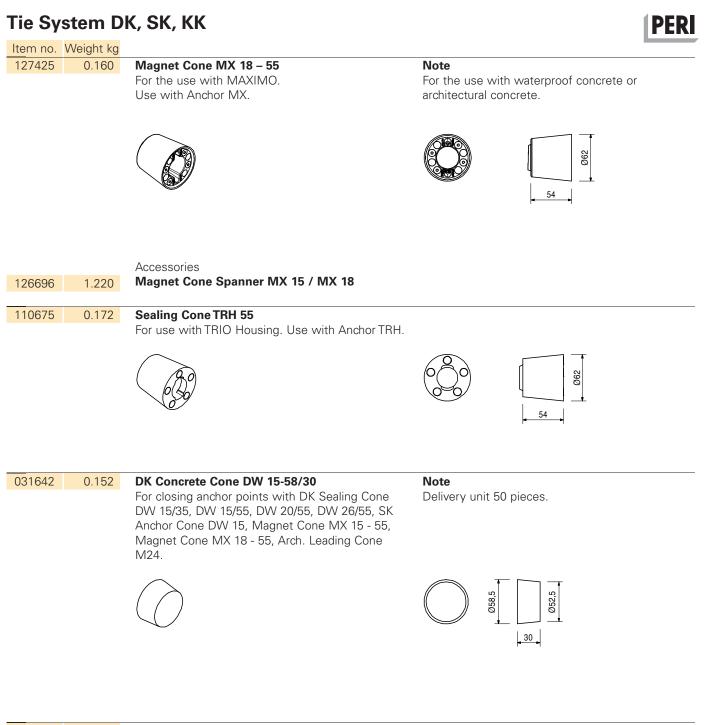
Oeresund Tunnel, from Denmark to Sweden.



Tunnel in Häggsviksleden, Sweden.

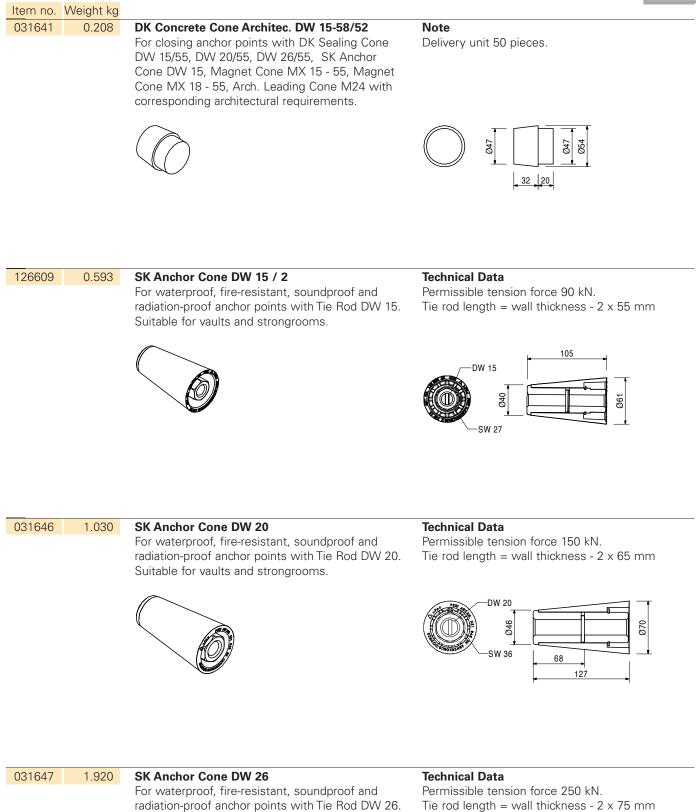
| Item no. Weig | ght kg | | |
|---------------|--------|---|---|
| |).043 | DK Cone DW 15/35 For fire-resistant and soundproof anchor points with DW 15. Resistant to seepage. For use with Spacer Tube rough 22. | Note Delivery unit 50 pieces. |
| | | | |
| 031636 C |).063 | DK Cone DW 15/55 For waterproof, fire-resistant and soundproof anchor points with Tie Rod DW 15. Used with Spacer Tube rough 22. | Note Delivery unit 50 pieces. |
| | | | |
| 031637 C | 0.055 | DK Cone DW 20/55 For waterproof, fire-resistant and soundproof anchor points with Tie Rod DW 20. Use with Spacer Tube rough 28. | Note Delivery unit 50 pieces. |
| | | | |
| 031638 0 | 0.054 | DK Cone DW 26/55 For waterproof, fire-resistant and soundproof anchor points with Tie Rod DW 26. Used with Spacer Tube rough 42. | Note Delivery unit 50 pieces. |
| | | | |
| 112937 0 |).173 | Sealing Cone MX 15 – 55 For use with MAXIMO. Use with Anchor MX. | Note For use with waterproofed concrete or architectu ral concrete. |
| | | | |
| 126696 1 | 1.220 | Accessories Magnet Cone Spanner MX 15 / MX 18 | |

PFRI



| 031643 | 0.241 | DK Concrete Cone UNI 58/52 | Note |
|--------|-------|---|--------------------------|
| | | For closing anchor points with DK Sealing Cone DW 15/55, DW 20/55, DW 26/55, SK Anchor Cone DW 15, Magnet Cone MX 15 - 55, Magnet Cone MX 18 - 55, Arch. Leading Cone M24. | Delivery unit 50 pieces. |
| | | | |

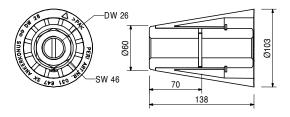
Ø48



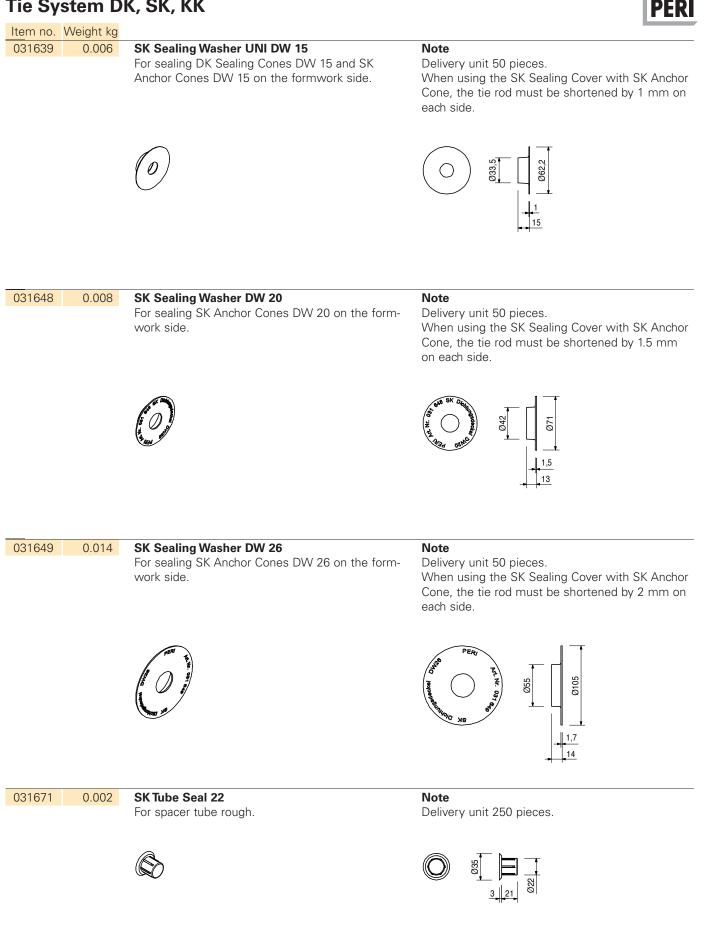


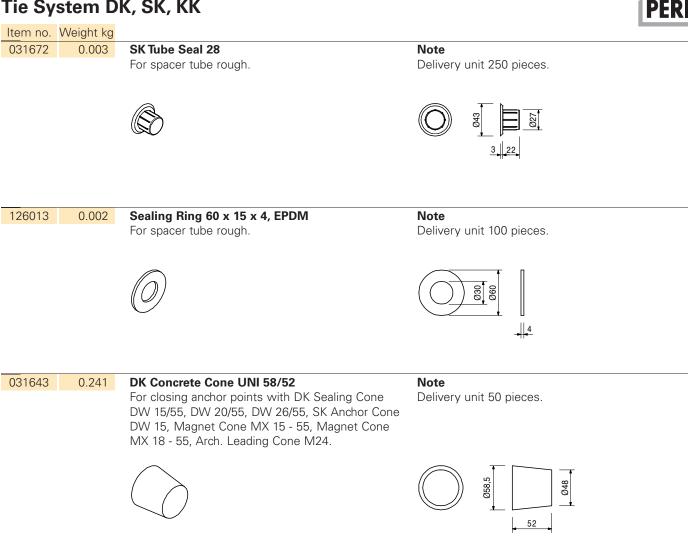
Suitable for vaults and strongrooms.

Tie rod length = wall thickness - 2 x 75 mm





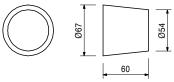




031650 0.364 SK Concrete Cone DW 20-67/60 Note For closing anchor points with SK Anchor Cone DW 20.



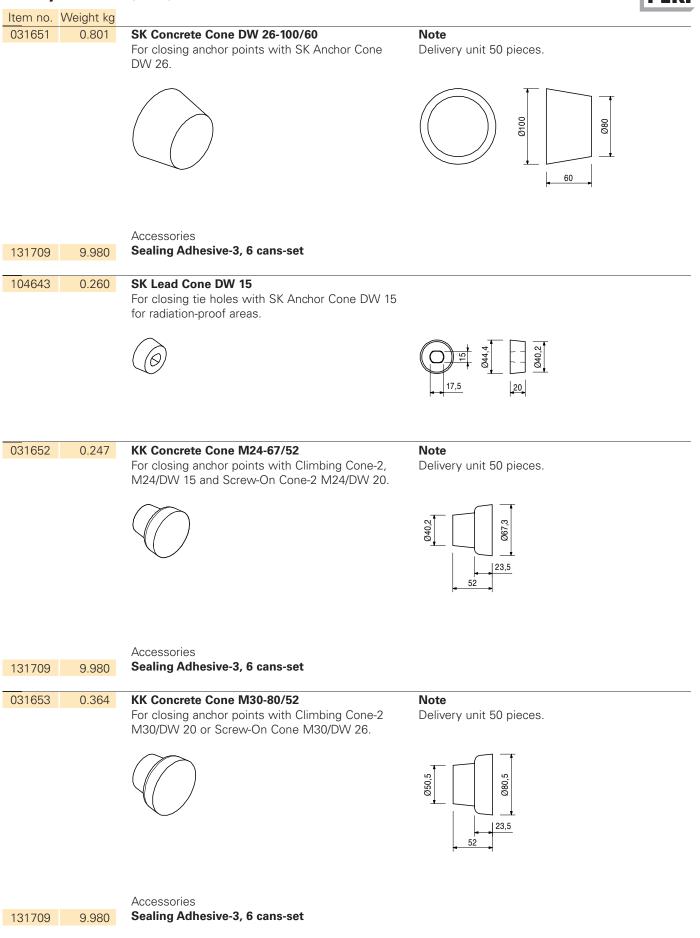
Delivery unit 50 pieces.



131709 9.980

Accessories Sealing Adhesive-3, 6 cans-set

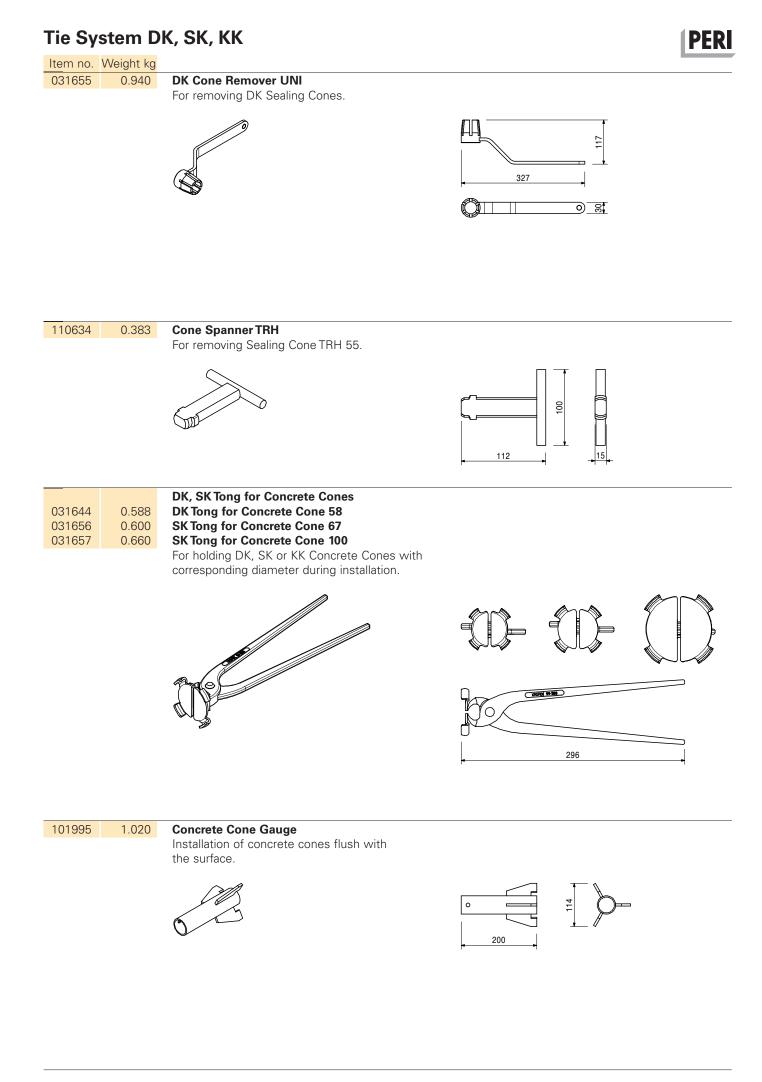


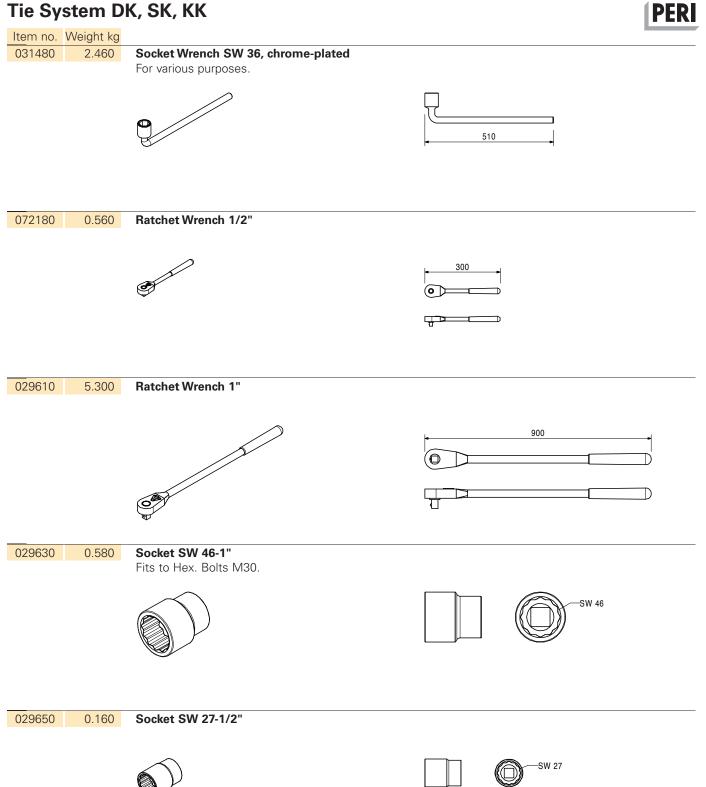


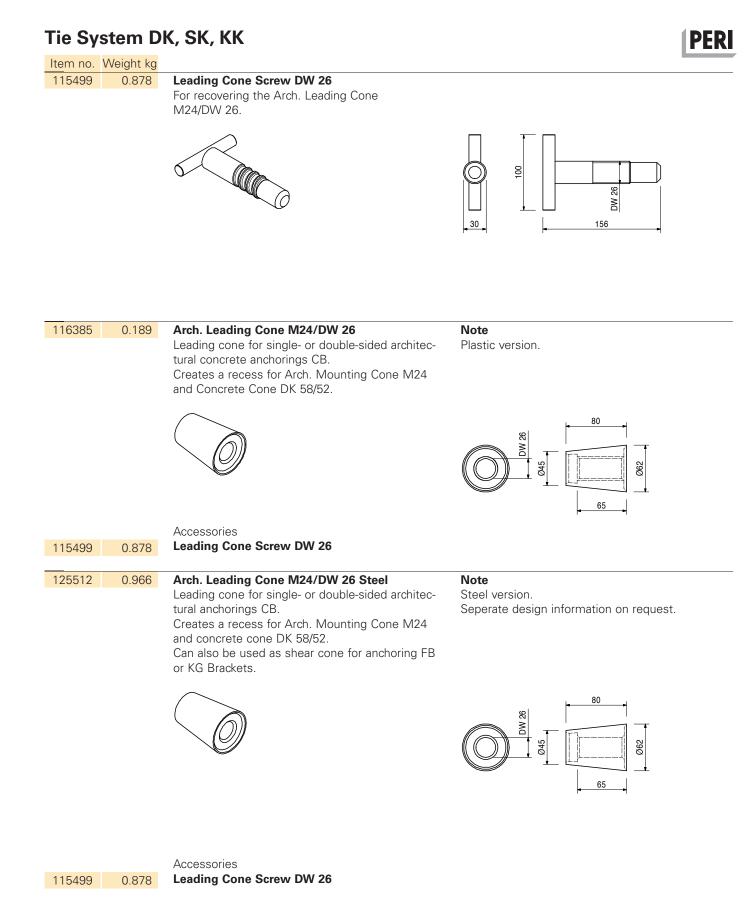
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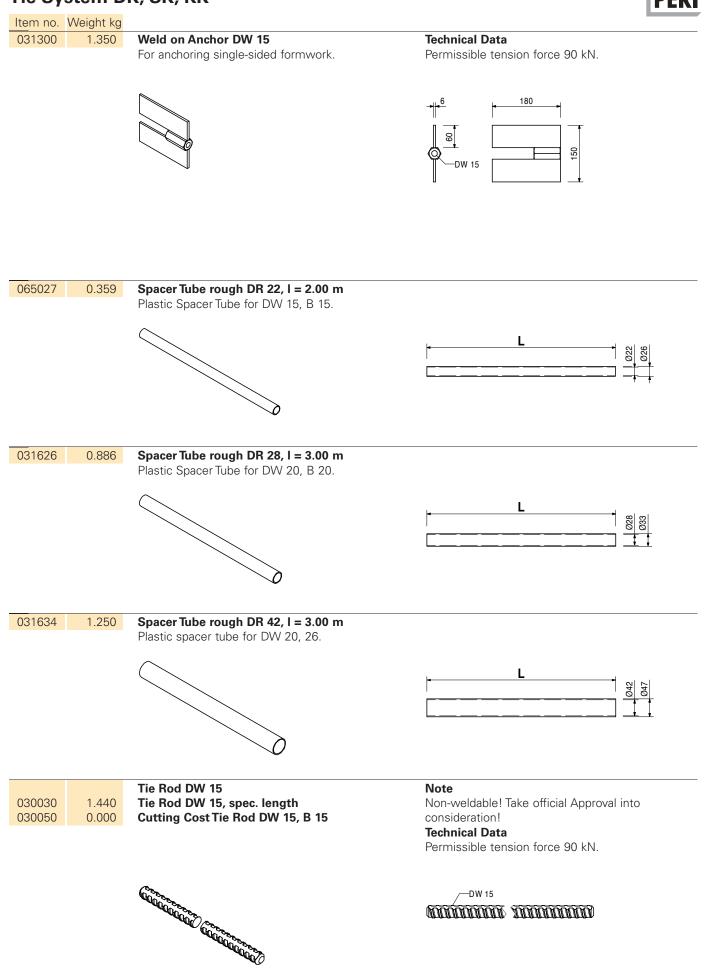


| Tie System D | K, SK, KK | PERI |
|------------------------------------|---|--|
| Item no. Weight kg 031654 0.512 | KK Concrete Cone M36-90/52 For closing anchor points with Climbing Cone-2 M36/DW 26. | Note Delivery unit 50 pieces. |
| | | |
| 131709 9.980 | Accessories Sealing Adhesive-3, 6 cans-set | |
| 131709 9.980 | Sealing Adhesive-3, 6 cans-set For bonding PERI concrete cones. | Note See Safety Data sheet! Consisting of: 6 x Component A, 6 x Component B |
| | A B | |
| 131710 0.890 | Sealing Adhesive-3 can CO-A | |
| 131711 0.670 | Sealing Adhesive-3 can CO-B | |
| 126696 1.220 | Magnet Cone Spanner MX 15 / MX 18 For dismantling of Magnet Cone MX 15 and MX 18. | |
| | | |

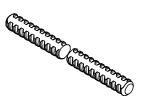


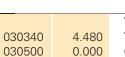






| ltem no. | Weight kg | | |
|----------|-----------|---------------------------------|--|
| | | Tie Rod DW 20 | Note |
| 030700 | 2.560 | Tie Rod DW 20, spec. length | Non-weldable! Take official Approval into conside- |
| 030800 | 0.000 | Cutting Cost Tie Rod DW 20/B 20 | ration! |
| | | | Technical Data |
| | | | Permissible tension force 150 kN. |
| | | | |
| | | | |
| | | (COOR | /—DW 20 |





Tie Rod DW 26 Tie Rod DW 26, spec. length Cutting Cost Tie Rod DW 26





Note

Non-weldable! Take official approval into consideration!

DFDI

Technical Data Permissible tension force 250 kN.





PERI International



North America

- CA Canada PERI Formwork Systems, Inc. www.peri.ca
- MX Mexico PERI Cimbras y Andamios, S.A. de C.V. www.peri.com.mx
- PA Panama PERI Panama Inc. www.peri.com.pa
- US USA PERI Formwork Systems, Inc. www.peri-usa.com

South America

- AR Argentina PERI S.A. www.peri.com.ar
- BR Brazil PERI Formas e Escoramentos Ltda. www.peribrasil.com.br
- CL Chile PERI Chile Ltda. www.peri.cl
- CO Colombia PERI S.A.S. www.peri.com.co
- PE Peru PERI Peruana S.A.C. www.peri.com.pe

Africa

- AO Angola Pericofragens, Lda. www.peri.pt
- DZ Algeria S.A.R.L. PERI www.peri.dz
- EG Egypt Egypt Branch Office www.peri.com.eg
- MA Morocco PERI S.A. www.peri.ma
- MZ Mozambique PERI (Pty.) Ltd. www.peri.co.mz
- NA Namibia PERI (Pty.) Ltd. www.peri.na
- NG Nigeria PERI Nigeria Ltd. www.peri.ng
- TN Tunisia PERI S.A.U. www.peri.es
- TZ Tanzania PERI Formwork and Scaffolding Ltd www.peri.co.tz
- ZA South Africa PERI Formwork Scaffolding (Pty) Ltd www.peri.co.za

Asia

IL.

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