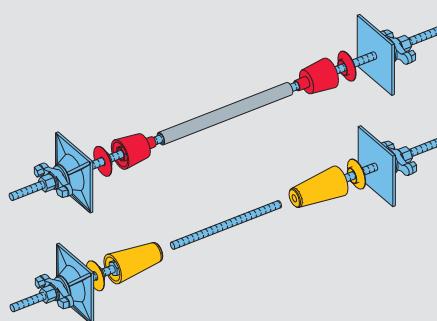


Tie Technology DK, SK

The right solution for all requirements



Waterproof
Gas-proof
Fire-resistant
Soundproof
For strongrooms



Content

Edition 10/2011

PERI GmbH
Formwork Scaffolding Engineering
P.O. Box 1264
89259 Weissenhorn
Germany
Tel +49 (0)73 09.9 50-0
Fax +49 (0)73 09.9 51-0
info@peri.com
www.peri.com

- 1 PERI Tie Technology DK, SK
- 2 The right solution for all requirements
- 4 Examples of completed projects
- 6 Careful working procedures guarantee tight and clean tie points
- 8 Special application features
- 10 Overview, Order form for DK Sealing Cones
- 12 Overview, Order form for SK Tie Cones
- 14 Components

Important Notes:

Without exception, all current safety regulations must be observed in those countries where our products are used.

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

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.

The problems

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 often make it necessary to strike 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 fulfil the requirements.

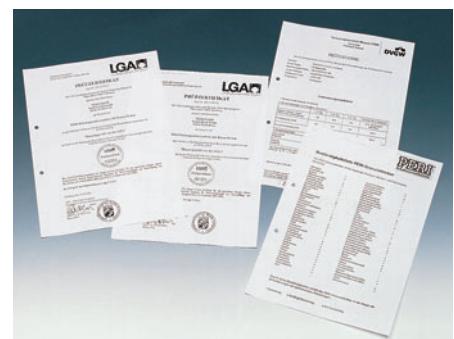
Tie points must always be sealed carefully, whatever the method used. PERI has developed a new technique for the subsequent sealing of tie points. Through this, there is a much better chance of achieving sound walls with PERI's system rather than conventional solutions. Sealing tie points allows you to influence the end result, whereas lost 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-proof
- fire-resistant F90
- soundproof
- suitable for strongrooms

Test reports issued by officially recognised testing institutes are available



Faulty mounting of waterstop centrepiece

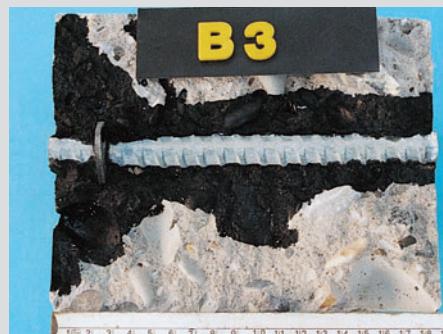
One very common error is working with spacer tubes on the two tie rods either side of the mounting part. These permeable tubes allow the water to penetrate right into the middle of the wall thus making the expensive waterstop centrepiece ineffective.



Shrinkage crack formation endangers the water impermeability with waterstop centerpieces ...

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 tubes.



... as well as with concreted tie rods.

The safe solution

With PERI Tie Technology DK and SK.



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

PERI Tie Technology DK, SK

The right solution for all requirements

DK Sealing Cone System

Advantages

- DK Sealing Cones can be unscrewed effortlessly 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. a concrete cone fits in all cone openings.
- Targeted and effective use 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 Cover DW 15 between the cone and formwork compensates for 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 rod.
- Can also be used as a stable spacer with tube for walls thicker than 60 cm. The tie rod is re-usable.

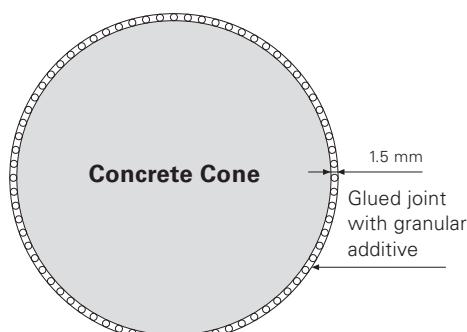
Application

The SK System consists of 2 re-usable SK Tie Cones and 3 Tie Rods, the middle one of which can be concreted in (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 Cover DW 15, 20, 26 is carried out similar to the handling with the DK Sealing System



Concrete Cones

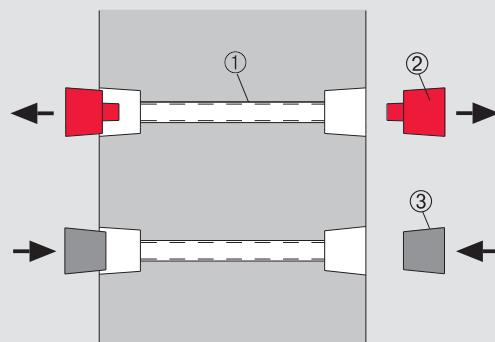
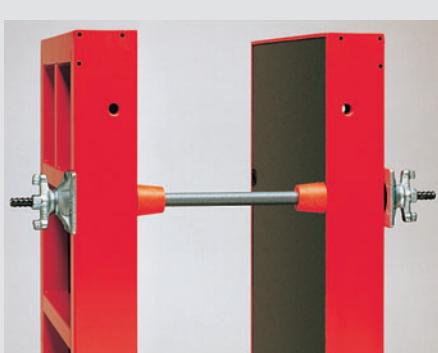
- smooth, non-porous surface
- grey concrete colour
- concrete quality corresponds to B100
- Imperviousness tested on the basis of DIN 1048 Part 5 (corresponds to 50 m head of water)



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

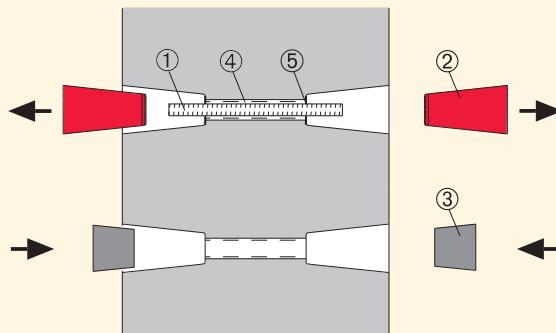
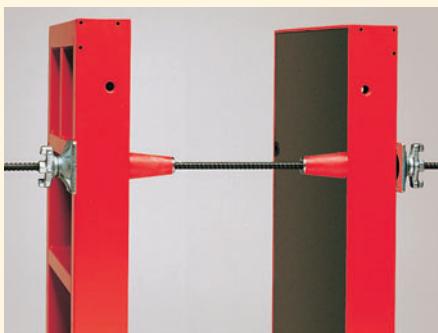
- 2-component sealing compound with the easy to remember mixing proportion of 1:1
- grey concrete colour
- processing time of 1 hour at 23 °C
- In line with German KTW and DVGW recommendations and suitable for:
 - drinking water tanks
 - containers for foodstuffs
- salt water resistant
- heat and cold resistant
- acid resistant to a limited extent



DK System

- waterproof
- gas-proof
- fire-resistant
- soundproof

- ① Tube rough (1x)
 ② DK Sealing Cone (2x)
 ③ DK Concrete Cone (2x)



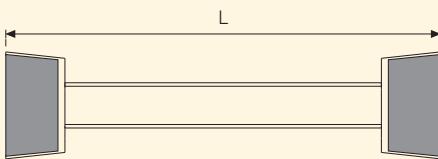
**SK System Version 1
Re-usable Tie Rod**

- waterproof
- gas-proof
- fire-resistant
- soundproof

- ① Re-usable Tie Rod (1x)
 ② SK Tie Cone (2x)
 ③ SK Concrete Cone (2x)
 ④ Tube rough (1x)
 ⑤ SK Tube Sealing (2x)

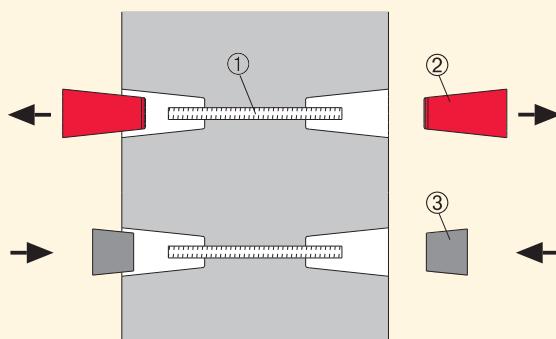
Important for Tie Systems DK and SK:

The spacers must be exactly the same length so that the formwork can be closed cleanly. Otherwise there is the serious risk that laitance can escape, and chipped cone openings as well as bleeding on the concrete surface could occur.



Note:

It is important that the spacer tubes of the SK and DK systems are exactly the same length.



**SK System Version 2
Lost Tie Rod**

- waterproof
- gas-proof
- fire-resistant
- soundproof
- suitable for strongrooms

- ① Lost Tie Rod (1x)
 ② SK Tie Cone (2x)
 ③ SK Concrete Cone (2x)

PERI Tie Technology DK, SK

Examples of completed projects



Sewage treatment plant in Hameln, Germany.



B311 Local Bypass Tunnel,
Ertingen, Germany.

**Other examples of completed projects:**

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



Oresund Tunnel, from Denmark to Sweden.



Tunnel in Häggsvisleden, Sweden.

PERI Tie Technology DK, SK

Careful working procedures guarantee tight and clean tie points

Removing 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 lightly turned and pulled out together with the sealing cone. The cones can be re-used.

A careful working procedure when installing the spacers result in tight and clean tie points.



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

Installing 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 a min. + 5 °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 the sealing compound.

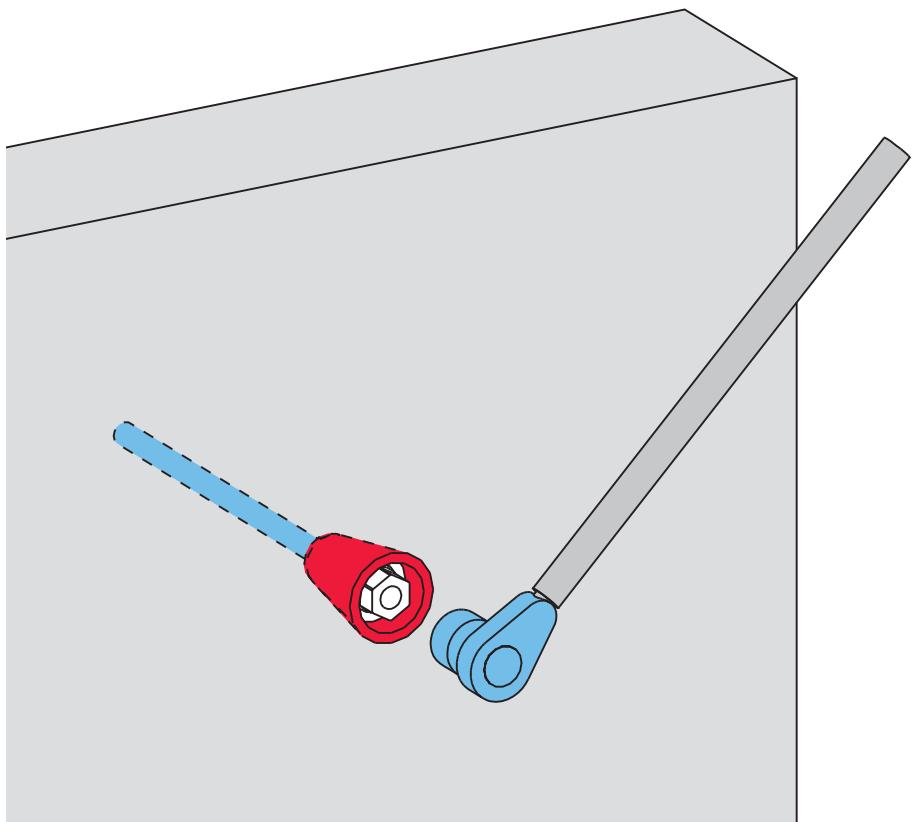
Insert the concrete cone into the pocket, and turn slightly several times to ensure that the sealing compound is evenly spread.



Removing SK Tie Cone

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

Cone	Tool
SK Tie Cone DW 15	Socket SW 27 - 1/2" Item no. 029650
SK Tie Cone DW 20	Socket Wrench SW 36 Item no. 031480
SK Tie Cone DW 26	Socket SW 46 - 1" Item no. 029630



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

Lightly tap the concrete cone flush with the cone gauge.



Remove the surplus compound with a filling knife.



A clean and tight tie point with PERI tie technology.



PERI Tie Technology DK, SK

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 DW 15/55 DK Sealing Cones or DW 15 SK Tie Cones should always be used for waterproof concrete.

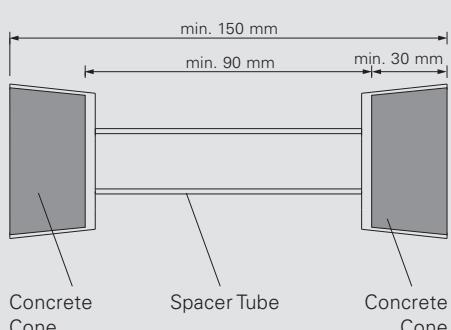
Gas-proof concrete

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

The PERI tie system does not affect the diffusion resistance of concrete walls.

Fire protection

When complying with the measures represented in the drawing, the tie points 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.

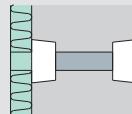
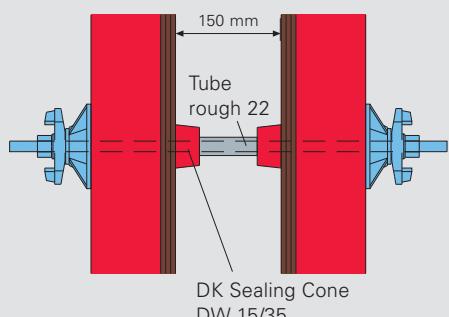


A tie point formed in this way corresponds to DIN 4102, Part 4 and hence Fire Resistance Class F 90 requirements.

Soundproofing

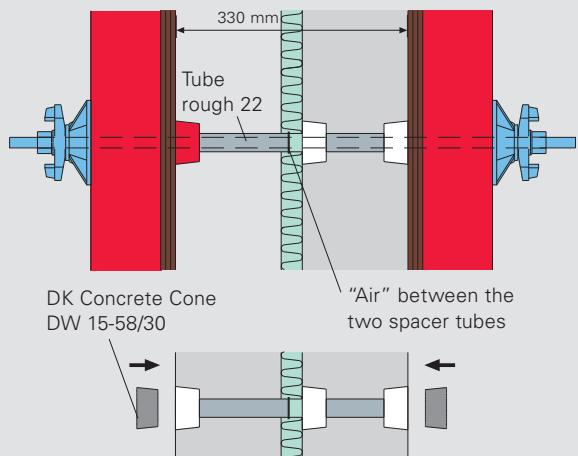
Airborne sound

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 wall panel being fitted.



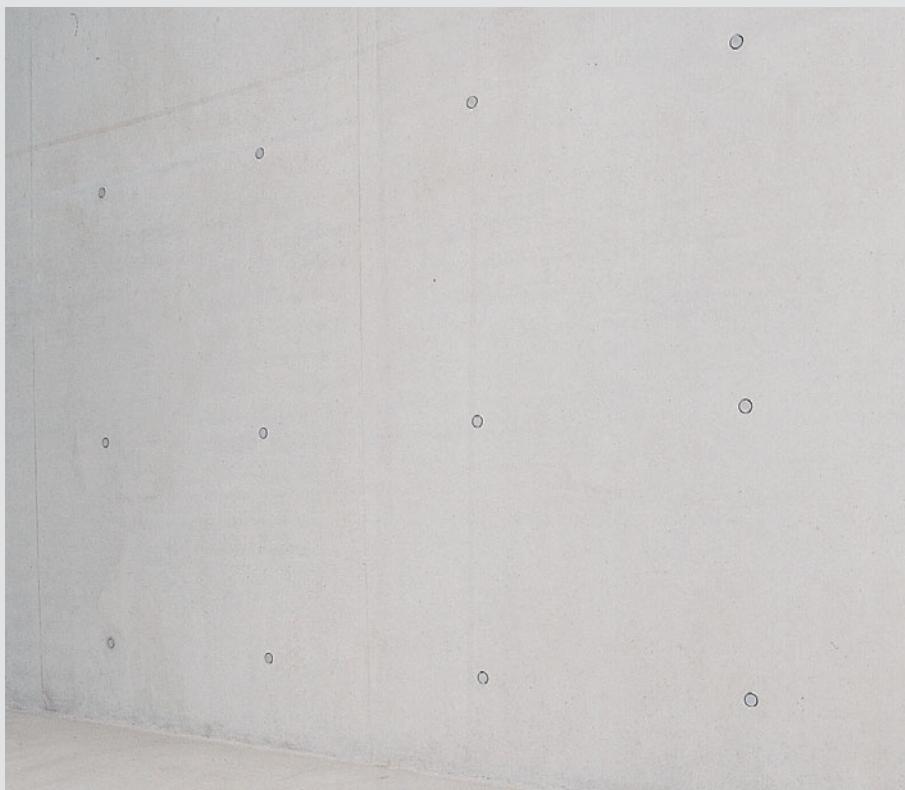
Structure-borne sound

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.

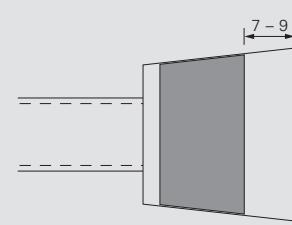


Architectural concrete

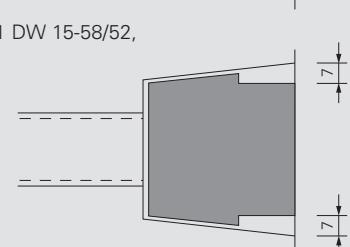
For different architectural requirements, other concrete cone variants can be used, e.g. recessed or with shadow joint. (It is possible that the colour of the cones may vary)



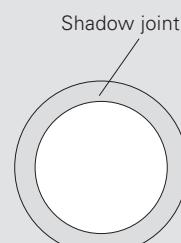
DK Concrete Cone DW 15-58/30,
Item no. 031642



Concrete cones with
shadow joint glued in
place.



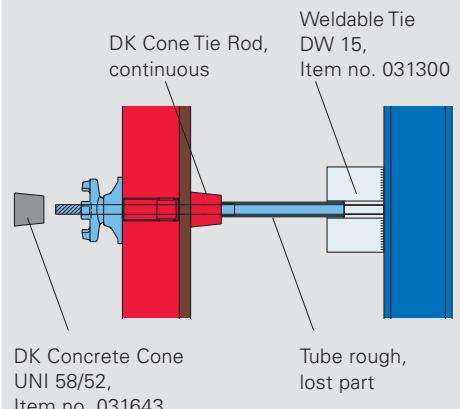
DK Concrete Cone Architectural 01 DW 15-58/52,
Item no. 031641



Single-sided shuttering against sheet piling

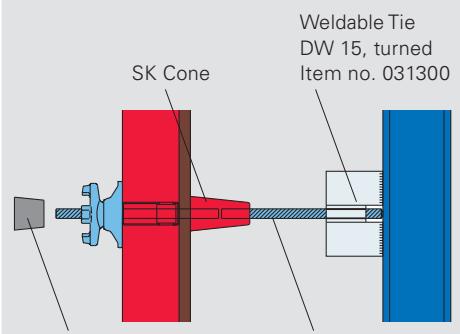
Version 1:

With re-usable tie rod.



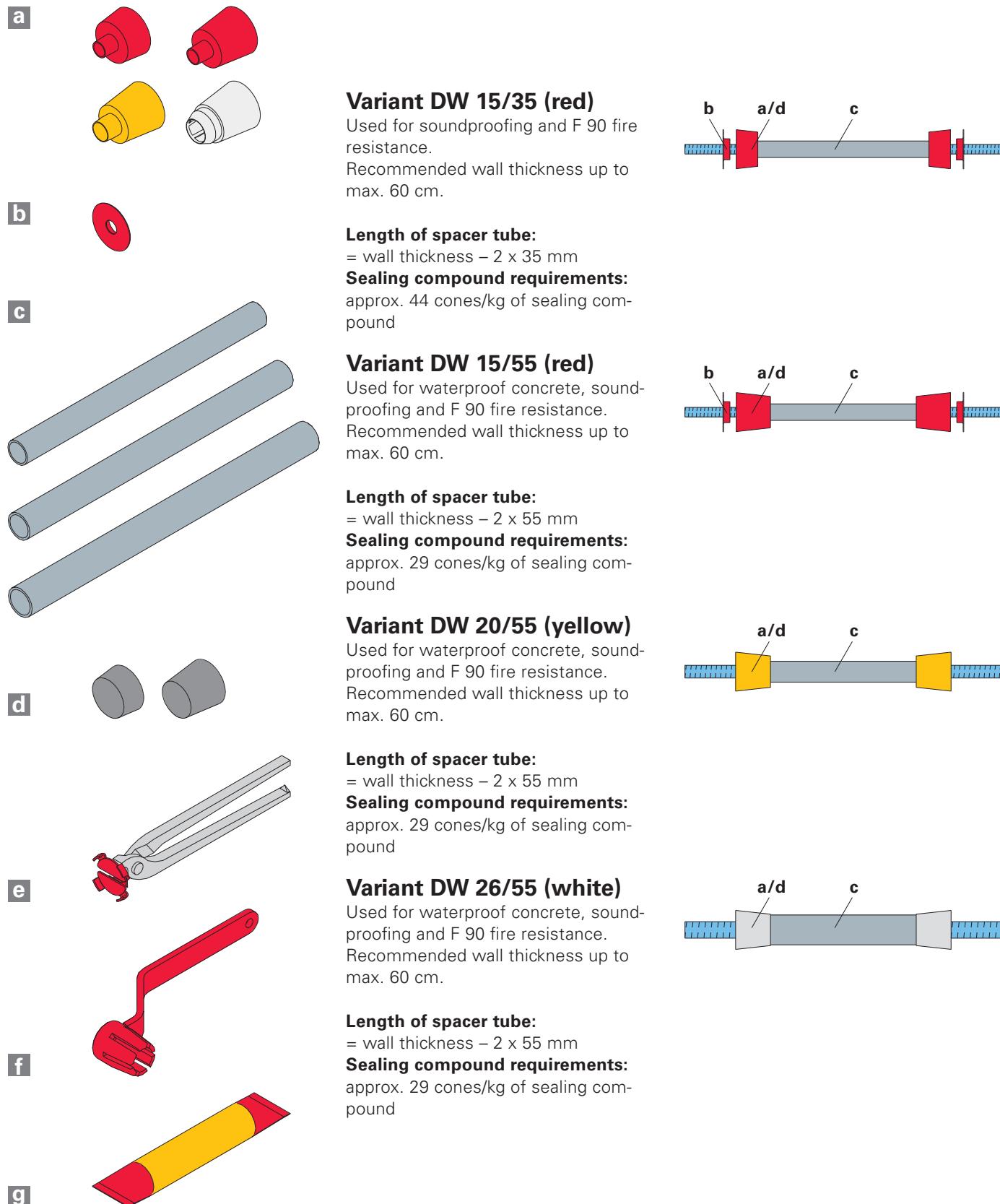
Version 2:

With lost tie rod.



PERI DK Sealing Cones

Overview, Order Form



Part	Item no.	Name	Re-usable	Qty	Unit Price [€]	Total Price [€]
-------------	-----------------	-------------	------------------	------------	-----------------------	------------------------

Variant DW 15/35

a	031635	DK Sealing Cone DW 15/35	X			
b	031639	SK Sealing Ring UNI DW 15	X			
c	065027	Tube rough 22, L = 2.0 m				
d	031642	DK Concrete Cone DW 15-58/30				
e	031644	DK Cone Pliers 58	X			
f	031655	DK Cone Spanner UNI	X			
g	108136	Sealing Compound-2, 5 kg pack				

Variant DW 15/55

a	031636	DK Sealing Cone DW 15/55	X			
b	031639	SK Sealing Ring UNI DW 15	X			
c	065027	Tube rough 22, L = 2.0 m				
d	031643	DK Concrete Cone UNI 58/52				
e	031644	DK Cone Pliers 58	X			
f	031655	DK Cone Spanner UNI	X			
g	108136	Sealing Compound-2, 5 kg pack				

Variant DW 20/55

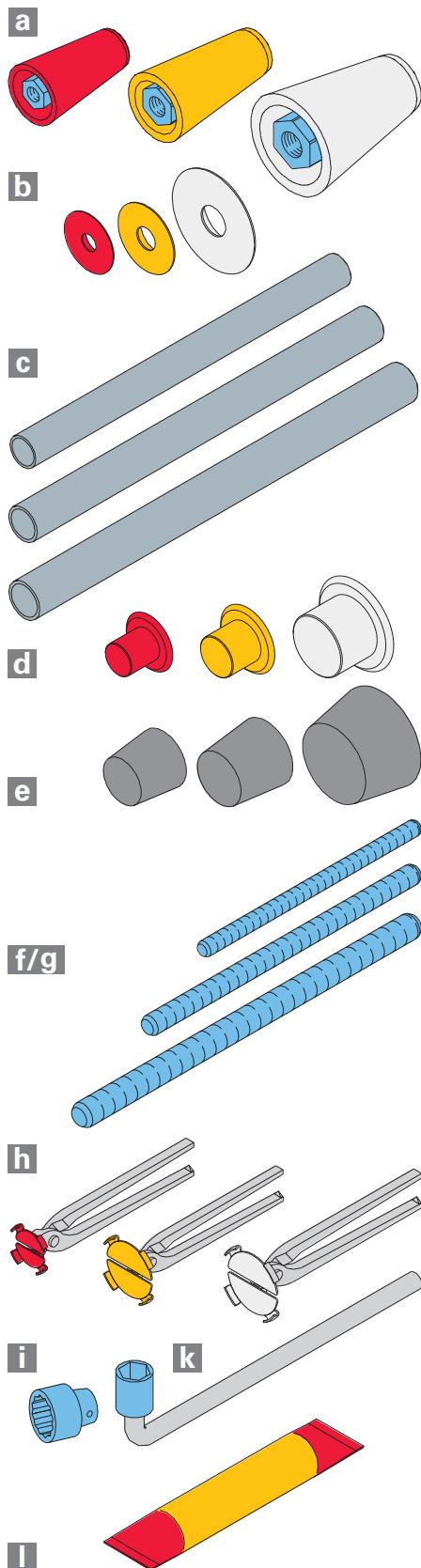
a	031637	DK Sealing Cone DW 20/55	X			
c	031626	Tube rough 28, L = 3.0 m				
d	031643	DK Concrete Cone UNI 58/52				
e	031644	DK Cone Pliers 58	X			
f	031655	DK Cone Spanner UNI	X			
g	108136	Sealing Compound-2, 5 kg pack				

Variant DW 26/55

a	031638	DK Sealing Cone DW 26/55	X			
c	031634	Tube rough 42, L = 3.0 m				
d	031643	DK Concrete Cone UNI 58/52				
e	031644	DK Cone Pliers 58	X			
f	031655	DK Cone Spanner UNI	X			
g	108136	Sealing Compound-2, 5 kg pack				

PERI SK Tie Cones

Overview, Order Form



Variant DW 15 (red)

Used for waterproof concrete, sound-proofing 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:

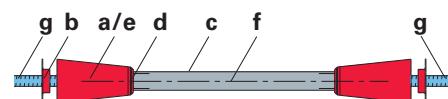
= wall thickness – 2 x 107 mm

Length of Tie Rod DW 15:

= wall thickness – 2 x 55 mm

Sealing compound requirements:

approx. 29 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.

Variant DW 20 (yellow)

Used for waterproof concrete, gas-proof 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:

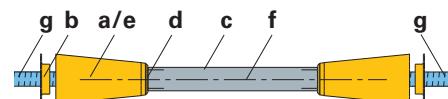
= wall thickness – 2 x 130 mm

Length of Tie Rod DW 20:

= wall thickness – 2 x 65 mm

Sealing compound requirements:

approx. 22 cones/kg of sealing compound



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

Variant DW 26 (white)

Used for waterproof concrete, gas-proof 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:

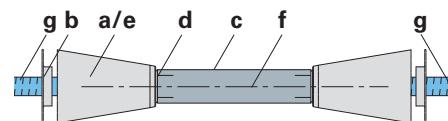
= wall thickness – 2 x 142 mm

Length of Tie Rod DW 26:

= wall thickness – 2 x 75 mm

Sealing compound requirements:

approx. 13 cones/kg of sealing compound



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

Part	Item no.	Name	Re-usable	Qty	Unit Price [€]	Total Price [€]
------	----------	------	-----------	-----	----------------	-----------------

Variant DW 15

a	031645	SK Tie Cone DW 15	X			
b	031639	SK Sealing Ring UNI DW 15	X			
c	065027	Tube rough 22, L = 2.0 m				
d	031671	SK Tube Seal 22				
e	031643	DK Concrete Cone UNI 58/52	X			
f	030030	Tie Rod DW 15, special length	X			
g	030030	Tie Rod DW 15, special length	X			
h	031644	DK Cone Pliers 58	X			
i	029650	12-point Nut SW 27 - 1/2"				
k	072180	Ratchet Wrench 1/2"				
l	108136	Sealing Compound-2, 5 kg pack				

Variant DW 20

a	031646	SK Tie Cone DW 20	X			
b	031648	SK Sealing Ring DW 20	X			
c	031626	Tube rough 28, L = 3.0 m				
d	031672	SK Tube Seal 28				
e	031650	SK Concrete Cone DW 20-67/60				
f	030700	Tie Rod DW 20, special length				
g	030700	Tie Rod DW 20, special length	X			
h	031656	SK Cone Pliers 67	X			
i	031330	Socket Wrench SW 36	X			
l	108136	Sealing Compound-2, 5 kg pack				

Variant DW 26

a	031647	SK Tie Cone DW 26	X			
b	031649	SK Sealing Ring DW 26	X			
c	031634	Tube rough 42, L = 3.0 m				
d	031677	SK Tube Seal 42				
e	031651	SK Concrete Cone DW 26-100/60				
f	030340	Tie Rod DW 26, special length				
g	030340	Tie Rod DW 26, special length	X			
h	031657	SK Cone Pliers 100	X			
i	029630	12-point Nut SW 46 - 1"	X			
k	029610	Ratchet Wrench 1"	X			
l	108136	Sealing Compound-2, 5 kg pack				

Tie System DK, SK, KK

PERI

Item no. Weight kg

031635 0,034

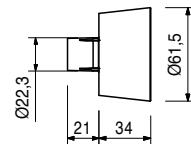
DK Cone DW 15/35

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 0,063

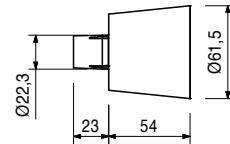
DK Cone DW 15/55

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 0,055

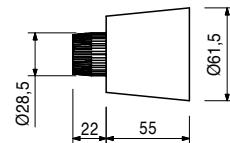
DK Cone DW 20/55

For waterproof, fire-resistant and soundproof anchor points with Tie Rod DW 20. Used with Spacer Tube rough 28.



Note

Delivery unit 50 pieces.



031638 0,052

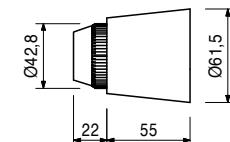
DK Cone DW 26/55

For waterproof, fire-resistant and soundproof anchor points with Tie Rod DW 26. Used with Spacer Tube rough 42.



Note

Delivery unit 50 pieces.



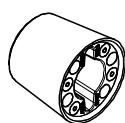
Tie System DK, SK, KK

Item no. Weight kg

112937 0,174

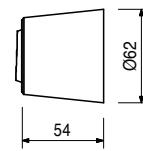
Sealing Cone MX 15 – 55

For use with MAXIMO. Use with Anchor MX.



Note

For use with waterproofed concrete or architectural concrete.



Accessories

114797 0,922

Magnet Cone Spanner MX 15

127425 0,160

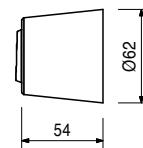
Magnet Cone MX 18 – 55

For the use with MAXIMO.
Use with Anchor MX.



Note

For the use with waterproof concrete or architectural concrete.



Accessories

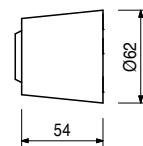
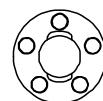
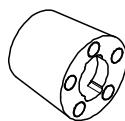
126696 1,220

Magnet Cone spanner MX 15 / MX 18

110675 0,172

Sealing Cone TRH 55

For use with TRIO Housing. Use with Anchor TRH.



031642 0,167

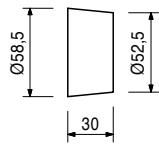
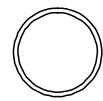
DK Concrete Cone DW 15-58/30

For closing anchor points with DK Sealing Cone DW 15/35.



Note

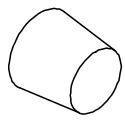
Delivery unit 50 pieces.



031643 0,265

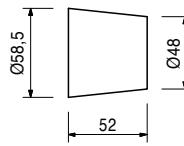
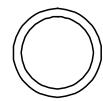
DK Concrete Cone UNI 58/52

For closing anchor points with DK Sealing Cone DW 15/55, DW 20/55, DW 26/55 and SK Anchor Cone DW 15.



Note

Delivery unit 50 pieces.



Tie System DK, SK, KK

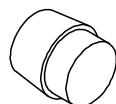
PERI

Item no. Weight kg

031641 0,260

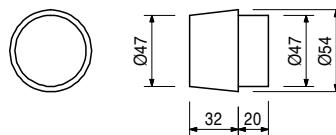
DK Concrete Cone Architec. DW 15-58/52

For closing anchor points with DK Sealing Cone DW 15/55 with corresponding architectural requirements.



Note

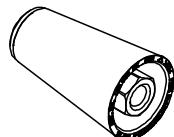
Delivery unit 50 pieces.



126609 0,593

SK Anchor Cone DW 15 / 2

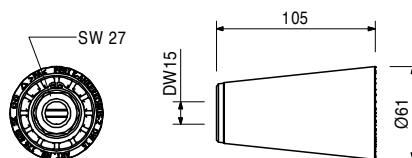
For waterproof, fire-resistant, soundproof and radiation-proof anchor points with Tie Rod DW 20. Suitable for vaults and strongrooms.



Technical Data

Permissible tensile force 90 kN.

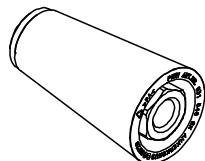
Tie rod length = wall thickness - 2 x 55 mm



031646 1,030

SK Anchor Cone DW 20

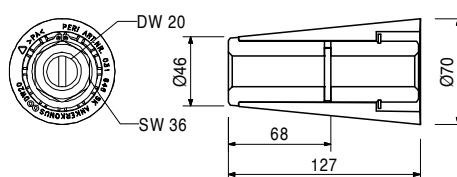
For waterproof, fire-resistant, soundproof and radiation-proof anchor points with Tie Rod DW 20. Suitable for vaults and strongrooms.



Technical Data

Permissible tensile force 150 kN.

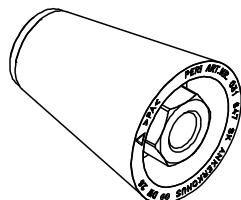
Tie rod length = wall thickness - 2 x 65 mm



031647 1,920

SK Anchor Cone DW 26

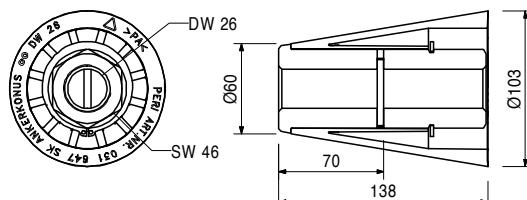
For waterproof, fire-resistant, soundproof and radiation-proof anchor points with Tie Rod DW 26. Suitable for vaults and strongrooms.



Technical Data

Permissible tensile force 250 kN.

Tie rod length = wall thickness - 2 x 75 mm



Tie System DK, SK, KK

Item no. Weight kg

031639 0,006

SK Sealing Washer UNI DW 15

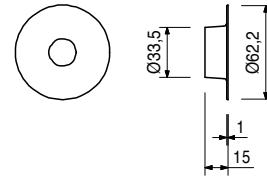
For sealing DK Sealing Cones DW 15 and SK Anchor Cones DW 15 on the formwork side.



Note

Delivery unit 50 pieces.

When using the SK Sealing Cover with SK Anchor Cone, the tie rod must be shortened by 1 mm on each side.



031648 0,008

SK Sealing Washer DW 20

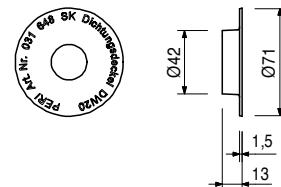
For sealing SK Anchor Cones DW 20 on the formwork side.



Note

Delivery unit 50 pieces.

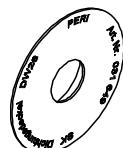
When using the SK Sealing Cover with SK Anchor Cone, the tie rod must be shortened by 1.5 mm on each side.



031649 0,014

SK Sealing Washer DW 26

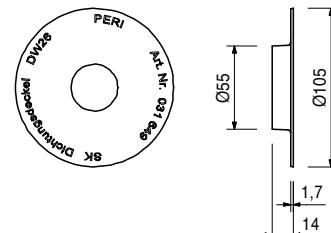
For sealing SK Anchor Cones DW 26 on the formwork side.



Note

Delivery unit 50 pieces.

When using the SK Sealing Cover with SK Anchor Cone, the tie rod must be shortened by 2 mm on each side.



031671 0,002

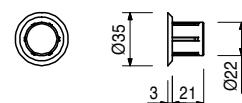
SK Tube Seal 22

For spacer tube rough.



Note

Delivery unit 250 pieces.



Tie System DK, SK, KK

PERI

Item no. Weight kg

031672 0,003

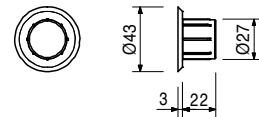
SK Tube Seal 28

For spacer tube rough.



Note

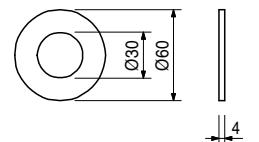
Delivery unit 250 pieces.



126013

0,002

Sealing Ring 60 x 15 x 4, EPDM



031643

0,265

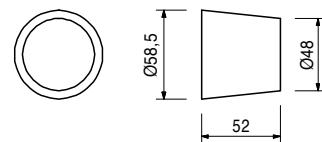
DK Concrete Cone UNI 58/52

For closing anchor points with DK Sealing Cone DW 15/55, DW 20/55, DW 26/55 and SK Anchor Cone DW 15.



Note

Delivery unit 50 pieces.

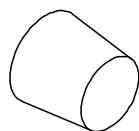


031650

0,401

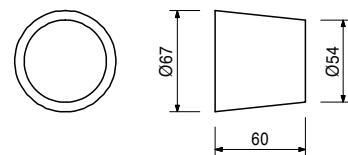
SK Concrete Cone DW 20-67/60

For closing anchor points with SK Anchor Cone DW 20.



Note

Delivery unit 50 pieces.



Accessories

108136 5,000

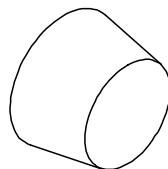
Glue for Concrete Cones-2, 5-kg-Set

031651

0,881

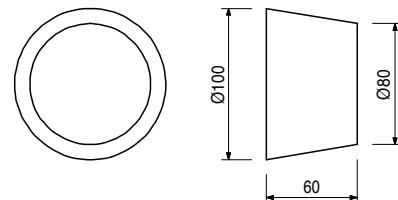
SK Concrete Cone DW 26-100/60

For closing anchor points with SK Anchor Cone DW 26.



Note

Delivery unit 50 pieces.



Accessories

108136 5,000

Glue for Concrete Cones-2, 5-kg-Set

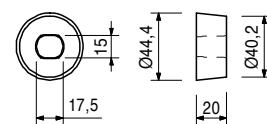
Tie System DK, SK, KK

Item no. Weight kg

104643 0,260

SK Lead Cone DW 15

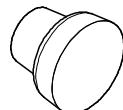
For closing tie holes with SK Anchor Cone DW 15
for radiation-proof areas.



031652 0,272

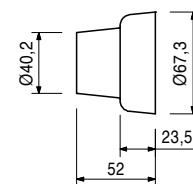
KK Concrete Cone M 24-67/52

For closing anchor points with Climbing Cone-2,
M 24/DW 15 and Screw-On-Cone-2 M 24/DW 20.



Note

Delivery unit 50 pieces.



Accessories

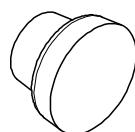
108136 5,000

Glue for Concrete Cones-2, 5-kg-Set

031653 0,402

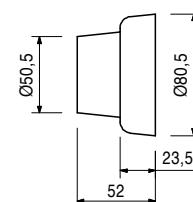
KK Concrete Cone M 30-80/52

For closing anchor points with Climbing Cone-2
M30/DW 20 or Screw-On Cone M30/DW 26.



Note

Delivery unit 50 pieces.



Accessories

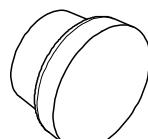
108136 5,000

Glue for Concrete Cones-2, 5-kg-Set

031654 0,571

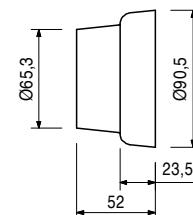
KK Concrete Cone M 36-90/52

For closing anchor points with Climbing Cone-2
M36/DW 26.



Note

Delivery unit 50 pieces.



Accessories

108136 5,000

Glue for Concrete Cones-2, 5-kg-Set

Tie System DK, SK, KK

PERI

Item no. Weight kg

108136 5,000

Glue for Concrete Cones-2, 5-kg-Set

For bonding PERI concrete cones.

Note

See Safety Data sheet!

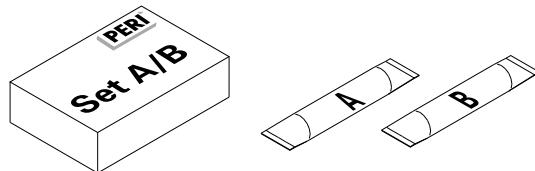
Consisting of:

6 x Component A,

2 x Stirring Container,

6 x Component B

3 x Stirring staff



108958 0,410

Glue Component A-2

For bonding PERI concrete cones.

110345 0,430

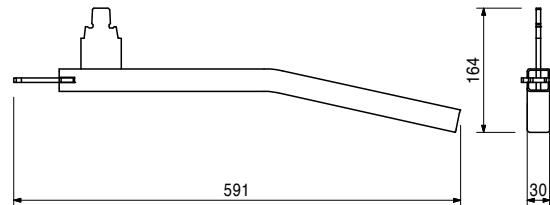
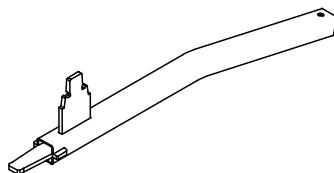
Glue Component B-2

For bonding PERI concrete cones.

126696 1,220

Magnet Cone spanner MX 15 / MX 18

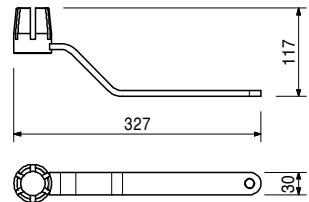
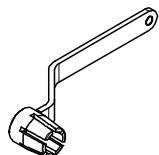
For dismantling of Magnet Cone MX 15 and MX 18.



031655 0,940

DK Cone Remover UNI

For removing DK Sealing Cones.



Tie System DK, SK, KK

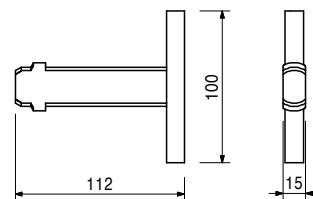
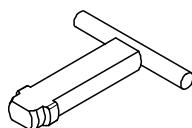
PERI

Item no. Weight kg

110634 0,383

Cone Spanner TRH

For removing Sealing Cone TRH 55.



031644	0,588
031656	0,600
031657	0,660

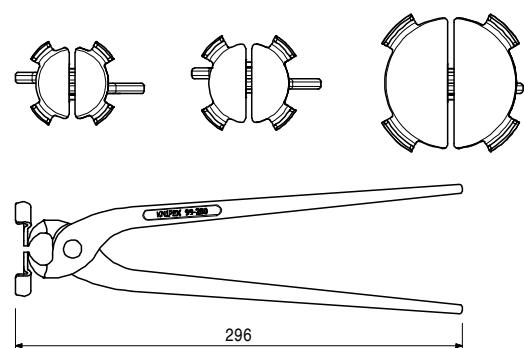
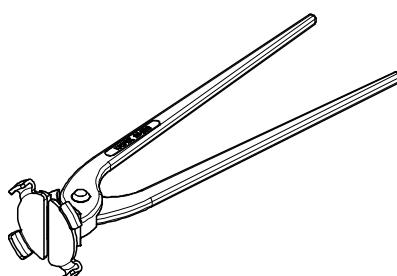
DK, SK Tongs for Concrete Cones

DK Tong for Concrete Cone 58

SK Tong for Concrete Cone 67

SK Tong for Concrete Cone 100

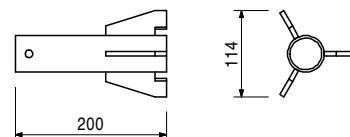
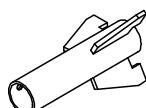
For holding DK, SK or KK Concrete Cones with corresponding diameter during installation.



101995 1,020

Concrete Cone Gauge

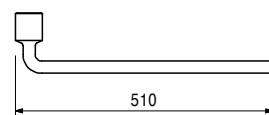
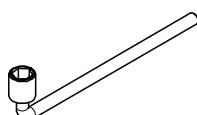
Installation of concrete cones flush with the surface.



031480 2,460

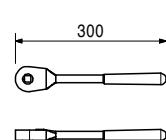
Socket Wrench SW 36, chrome-plated

For various purposes.



072180 0,560

Ratchet Wrench 1/2"



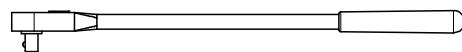
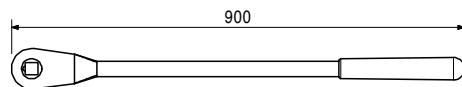
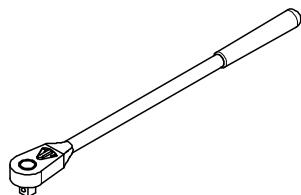
Tie System DK, SK, KK

PERI

Item no. Weight kg

029610 5,300

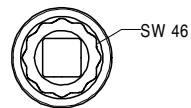
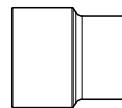
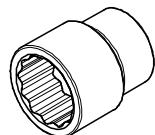
Ratchet Wrench 1"



029630 0,580

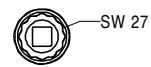
Socket SW 46-1"

Fits to hex. bolts M30.



029650 0,160

Socket SW 27-1/2"



PERI International



PERI

01 Germany
PERI GmbH
 Rudolf-Diesel-Strasse
 89264 Weissenhorn
 info@peri.com
 www.peri.com

02 France
 PERI S.A.S.
 77109 Meaux Cedex
 peri.sas@peri.fr
 www.peri.fr

03 Switzerland
 PERI AG
 8472 Ohringen
 info@peri.ch
 www.peri.ch

04 Spain
 PERI S.A.U.
 28100 Algete - Madrid
 info@peri.es
 www.peri.es

05 Belgium/Luxembourg
 N.V. PERI S.A.
 1840 Londerzeel
 info@peri.be
 www.peri.be

06 Netherlands
 PERI Holding B.V.
 5480 AH-Schijndel
 info@peri.nl
 www.peri.nl

07 USA
 PERI Formwork Systems, Inc.
 Elkridge, MD 21075
 info@peri-usa.com
 www.peri-usa.com

08 Indonesia
 PT Beton Perkasa Wijaksana
 Jakarta 10210
 bpw@betonperkasa.com
 www.peri.com

09 Italy
 PERI S.p.A.
 20060 Basiano
 info@peri.it
 www.peri.it

10 Japan
 PERI Japan K.K.
 Tokyo 103-0015
 info@perijapan.jp
 www.perijapan.jp

11 United Kingdom/Ireland
 PERI Ltd.
 Rugby, CV23 0AN
 info@peri.ltd.uk
 www.peri.ltd.uk

12 Turkey
 PERI Kalip ve Iskeleleri Sanayi
 ve Ticaret Ltd.
 Esenyurt / İstanbul 34510
 info@peri.com.tr
 www.peri.com.tr

13 Hungary
 PERI Kft.
 1181 Budapest
 info@peri.hu
 www.peri.hu

14 Malaysia
 PERI Formwork Malaysia Sdn. Bhd.
 43300 Seri Kembangan,
 Selangor Darul Ehsan
 info@perimalaysia.com
 www.perimalaysia.com

15 Singapore
 PERI ASIA Pte. Ltd
 Singapore 387355
 pha@periasia.com
 www.periasia.com

16 Austria
 PERI Ges.mbh
 3134 Nußdorf ob der Traisen
 office@peri.at
 www.peri.at

17 Czech Republic
 PERI spol. S r.o.
 252 42 Jesenice u Prahy
 info@peri.cz
 www.peri.cz

18 Denmark
 PERI Danmark A/S
 2670 Greve
 peri@peri.dk
 www.peri.dk

19 Finland
 PERI Suomi Ltd. Oy
 05460 Hyvinkää
 info@perisuomi.fi
 www.perisuomi.fi

20 Norway
 PERI Norge AS
 3036 Drammen
 info@peri.no
 www.peri.no

21 Poland
 PERI Polska Sp. z o.o.
 05-860 Płochocin
 info@peri.com.pl
 www.peri.com.pl

22 Sweden
 PERIform Sverige AB
 30262 Halmstad
 peri@periform.se
 www.periform.se

23 Korea
 PERI (Korea) Ltd.
 Seoul 135-936
 info@perikorea.com
 www.perikorea.com

24 Portugal
 Pericofragens Lda.
 2790-326 Queijas
 info@peri.pt
 www.peri.pt

25 Argentina
 PERI S.A.
 B1625GPA Escobar – Bs. As.
 info@peri.com.ar
 www.peri.com.ar

26 Brazil
 PERI Formas e
 Escoramentos Ltda.
 Vargem Grande Paulista – SP
 info@peribrasil.com.br
 www.peribrasil.com.br

27 Chile
 PERI Chile Ltda.
 Colina, Santiago de Chile
 perichile@peri.cl
 www.peri.cl

28 Romania
 PERI România SRL
 077015 Balotești
 info@peri.ro
 www.peri.ro

29 Slovenia
 PERI Agency
 2000 Maribor
 peri.slo@triera.net
 www.peri.com

30 Slovakia
 PERI spol. s. r.o.
 903 01 Senec
 info@peri.sk
 www.peri.sk

31 Australia
 PERI Australia Pty. Ltd.
 Glendenning NSW 2761
 info@periaus.com.au
 www.periaus.com.au

32 Estonia
 PERI AS
 76406 Saku vald
 Harjumaa
 peri@peri.ee
 www.peri.ee

33 Greece
 PERI Hellas Solely Owned Ltd.
 194 00 Koropi
 info@perihellas.gr
 www.perihellas.gr

34 Latvia
 PERI SIA
 2118 Salaspils novads, Rīgas rajons
 info@peri-latvija.lv
 www.peri-latvija.lv

35 United Arab Emirates
 PERI (L.L.C.)
 Dubai U.A.E.
 perillc@perime.com
 www.perime.com

36 Canada
 PERI Formwork Systems, Inc.
 Bolton, ON – L7E 1K1
 info@peri.ca
 www.peri.ca



37 Lebanon
PERI Representative Office
90416 – Jdeideh
lebanon@peri.de
www.peri.com

44 Russian Federation
OOO PERI
142407, Noginsk District
moscow@peri.ru
www.peri.ru

51 Turkmenistan
PERI Kalip ve İşkeleleri
Aşgabat
ahmet.kadioglu@peri.com.tr
www.peri.com.tr

57 Saudi Arabia
PERI Saudi Arabia Com. Ltd.
21463 Jeddah
info@peri.com.sa
www.peri.com.sa

64 Nigeria
Heights Access Nigeria Ltd.
Victoria Island, Lagos
info@heightsaccessng.com
www.heightsaccessng.com

38 Lithuania
PERI UAB
02300 Vilnius
info@peri.lt
www.peri.lt

45 South Africa
PERI (Pty) Ltd
7600 Stellenbosch
info@peri.co.za
www.peri.co.za

52 Belarusia
IOOO PERI Belarus
220100 Minsk
info@peri.by
www.peri.by

58 Qatar
PERI Qatar LLC
P.O.Box: 31295 - Doha
info@periqatar.com
www.periqatar.com

65 Oman
PERI (L.L.C.)
Muscat
perimct@perime.com
www.perime.com

39 Morocco
PERI S.A.U.
Tanger
peri25@menara.ma
www.peri.com

46 Ukraine
PERI Ukraina
07400 Brovary
peri@peri.ua
www.peri.ua

53 Croatia
PERI oplate i skele d.o.o.
10 250 Lučko-Zagreb
info@peri.com.hr
www.peri.com.hr

59 Algeria
Sarl PERI
Kouba 16092, Alger
info@peri.com
www.peri.com

66 Colombia
PERI S.A.S. Colombia
Chapinero Alto, Bogotá
peri.colombia@peri.com.co
www.peri.com.co

40 Israel
PERI Formwork
Engineering Ltd.
Rosh Ha'ayin, 48104
info@peri.co.il
www.peri.co.il

47 Egypt
Egypt Branch Office
11341 Nasr City /Cairo
info@peri.com.eg
www.peri.com.eg

54 India
PERI (India) Pvt Ltd
Mumbai – 400064
info@peri.in
www.peri.in

60 Albania
PERI formwork and
scaffolding Sh.p.k.
Tirane
erti.hasanaj@peri.com.tr
www.peri.com.tr

41 Bulgaria
PERI Bulgaria EOOD
1839 Sofia
peri.bulgaria@peri.bg
www.peri.bg

48 Serbia
PERI – Oplate d.o.o.
22310 Šimanovci
office@peri.rs
www.peri.rs

55 Jordan
PERI GmbH - Jordan
11947 Amman
jordan@peri.com
www.peri.com

61 Peru
PERI Peruana S.A.C.
Villa El Salvador, Lima
contacto@peri.com.pe
www.peri.com.pe

42 Iceland
Armar ehf.
220 Hafnarfjörður
armar@armar.is
www.armar.is

49 Mexico
PERI Cimbras y Andamios,
S.A. de C.V.
Estado de México, Huehuetoca
info@peri.com.mx
www.peri.com.mx

56 Kuwait
PERI Kuwait Company WLL
13011 Kuwait
kuwait@peri.com
www.peri.com

62 Panama
PERI Panama Inc.
0832-00155 Panama City
info@peri.com.pa
www.peri.com.pa

43 Kazakhstan
TOO PERI Kazakhstan
050000 Almaty
peri@peri.kz
www.peri.kz

50 Azerbaijan
PERI Repesentative Office
Baku
peribaku@peri.com.tr
www.peri.com.tr

63 Angola
Pericofragens, Lda.
Luanda
renato.portugal@peri.pt
www.peri.pt

The optimal System for every Project and every Requirement



Wall Formwork



Column Formwork



Slab Formwork



Climbing Systems



Tunnel Formwork



Bridge Formwork



Shoring Systems



Construction Scaffold



Facade Scaffold



Industrial Scaffold



Access



Protection Scaffold



System-Independent Accessories



Services



PERI GmbH
Formwork Scaffolding Engineering
Rudolf-Diesel-Strasse 19
89264 Weissenhorn
Germany
Tel. +49 (0)7309.950-0
Fax +49 (0)7309.951-0
info@peri.com
www.peri.com