## Winkler Technik



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# INNOVATIVE FIXING TECHNOLOGY FOR UNDERFLOOR-HEATING AND COOLING SYSTEMS 



## Winkler Technik

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Winkler Technik GmbH is the world market leader in innovative mounting systems for surface temperature control systems. Wherever underfloor or wall heating is installed, fixing technologies from our range is very likely to be used. Installers also prefer to use our products when building snow melting systems for garage entrances, grass heating systems for football stadiums or heating systems for aircraft runways.

## Highest quality

There is a good reason for this: Our products, manufactured in Germany and Switzerland, meet the highest quality standards. In addition, we cover all needs in terms of fastening technology for surface temperature control with our comprehensive range. Our products include, among others:

- mounting rails for various tube dimensions
- rail fixings and suitable fixing tools
- staple systems
- clips for the tube fixing
- plastic bend supports and $90^{\circ}$ elbows

Innovation as the basis for success
Our company looks back on a history of more than 100 years, thanks to which we have an enormous wealth of knowledge and experience. The great-grandfather of the current generation of entrepreneurs, Adolf Winkler, was already active in the field of surface temperature control with his locksmith's shop founded in Berlin in 1904. His son Alfred revolutionised underfloor heating in 1962 with a new type of plastic pipe.

The innovator gene jumped over to the next generation: Wolfram Winkler focused on improving fastening technology. To this end, the graduate engineer with a doctorate in sales psychology founded today's Winkler Technik GmbH with his wife, Erika Winkler, in 1977. Among other things, he developed the U-rail and was responsible for the registration of numerous patents.

## Focus on the customer

Today, the fourth generation is at the helm of our family business. Also, under the leadership of Alexander Winkler and his wife Veronika, innovation is a central pillar of our company's success. In 2011 and 2018, we were named one of the most innovative companies in Germany in the highly regarded TOP 100 competition. The last two decades have been characterised by solid growth. We are active in more than 30 countries and cooperate with various industry partners.

However, the customer remains at the centre of everything we do. To satisfy the needs of our clientele, we do our best every day. Our core values are quality, reliability, honesty, respect and fairness. We are happy to be measured against this. Because what we do, we do with passion and conviction. We are here for you!


Alexander Winkler Chief Executive Officer (CEO)


Veronika Winkler
Chief Executive Officer (CEO)

Wherever you are, so are we. Worldwide.

Winkler Technik is out in the field: on the building site and also at the biggest trade shows in the world. Patented solutions for underfloor-heating and cooling, and more.
We maintain a presence in our core markets and offer our customers the service, know-how and implementation they need.
Promptly.
On schedule.

BUNDESREPUBLIK DEUTSCHLAND

## URKUNDE

über die Etreilung des
Patents
Nr. 102007011194

F16C 3/02 (2006.01)
Bezeichung
Betestgungscip zur Betestigung von Rohren Betestrounoscain

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Tog dee Anmeldung
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PATENTSCHRIFT as


Q For Heinohre einer Fuabodeatheruag bettimnte Hateechiens.


The innovative flair of the company founders and their successors still characterizes the company's prestige even today. Thus Winkler Technik registered five new patents in 2007 alone.

Winkler Technik was awarded the quality seal "Top 100" as one of the most innovative medium-sized companies in Germany in 2011, the "Wachstums-Champion 2013" (growth Champion) in 2013 and the „National Champion 2016/17" for Germany in the „European Business Awards".
In 2018, we were again awarded the „TOP 100" quality seal.
In 2021, we were certified by "Great Place To Work" as an „attractive employer". We received an award „Arbeitgeber der Zukunft" (employer of the future) in 2023.


## The Winkler Technik Team



Alexander Winkler Chief Executive Officer (CEO)


Anita Müller
ort Team Member
Anita Müller
Export Team Member


Veronika Winkler Executive Officer (CEO)


Anatol Stein
Sales Team Member


Heike Flesch Sales Team Member


Manuela Probst Office Team Member


Bernd Picker
Sales Team Member


Michele Stadler Export Team Member


Dirk Baur Export Team Member

## Winkler Technik

## The Winkler Technik Team



Beate Walz
Export Team Member


Martin Voigt Logistic Team Member


Kristine Schatz Logistic Team Member

Elena Winkler
Dual Student



Margit Donzi
Export Team Member


Timo Sproll Financial Team Member

## Mounting Rails

Mounting Rails for a gently holding of the tubes on different surfaces like insulation boards, concrete, wood and also on soil.

The rail is very suitable for installation on large-areas for example lawn heating in stadiums.


## Information on the Mounting Rails:

- different rails are available for tubes with an OD of 8-25 mm (1/4" - 1")
- all rails are available with adhesive tape
- tube distances from 25-100 mm (1"-4")
- length of the rails 2 m (61/2 ft), other lengths on request


3010TK (with adhesive tape) for tubes with an OD 10 mm length of the rails: 2 m ( $61 / 2 \mathrm{ft}$ ) packing: $896 \mathrm{~m} /$ pallet ( $2,940 \mathrm{ft}$ ) 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


4014TK25 (with adhesive tape) for tubes with an OD 14 mm length of the rails: 2 m ( $61 / 2 \mathrm{ft}$ ) packing: $896 \mathrm{~m} /$ pallet $(2,940 \mathrm{ft})$ 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


4017TK (with adhesive tape) for tubes with an OD 17 mm length of the rails: $2 \mathrm{~m}(61 / 2 \mathrm{ft})$ packing: $896 \mathrm{~m} /$ pallet ( $2,940 \mathrm{ft}$ ) 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


3012TK (with adhesive tape) for tubes with an OD 12 mm length of the rails: 2 m ( $61 / 2 \mathrm{ft}$ ) packing: $896 \mathrm{~m} /$ pallet $(2,940 \mathrm{ft})$ 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


4016TK (with adhesive tape) for tubes with an OD $16 \mathrm{~mm}\left(1 / 2^{\prime \prime}\right)$ length of the rails: $2 \mathrm{~m}(61 / 2 \mathrm{ft})$ packing: $896 \mathrm{~m} /$ pallet $(2,940 \mathrm{ft})$ 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


4018TK (with adhesive tape) for tubes with an OD 18 mm (5/8") length of the rails: $2 \mathrm{~m}(61 / 2 \mathrm{ft})$ packing: $896 \mathrm{~m} /$ pallet ( $2,940 \mathrm{ft}$ ) 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


ZS1617TK (with adhesive tape) for tubes with an OD 16/17 mm (1/2") length of the rails: 2 m (6 1/2 ft) packing: $896 \mathrm{~m} /$ pallet ( $2,940 \mathrm{ft}$ ) 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


51617 TK25 (with adhesive tape) for tubes with an OD 16/17 mm (1/2") length of the rails: 2 m (6 1/2 ft) packing: $896 \mathrm{~m} /$ pallet $(2,940 \mathrm{ft})$ 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$

article no. 5022T

5022TK (with adhesive tape) for tubes with an OD 22 mm (3/4") length of the rails: $2 \mathrm{~m}(61 / 2 \mathrm{ft})$ packing: $896 \mathrm{~m} /$ pallet $(2,940 \mathrm{ft})$ 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


ZS20TK (with adhesive tape)
for tubes with an OD 20 mm length of the rails: $2 \mathrm{~m}(61 / 2 \mathrm{ft})$ packing: $896 \mathrm{~m} /$ pallet $(2,940 \mathrm{ft})$ 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$


5020TK (with adhesive tape)
for tubes with an OD 20 mm length of the rails: 2 m (6 1/2 ft) packing: $896 \mathrm{~m} /$ pallet $(2,940 \mathrm{ft})$ 28 bundles à $32 \mathrm{~m}(105 \mathrm{ft})$

(with tube distance 50 mm (2") or 100 mm (4") available) for tubes with an OD 25 mm length of the rails: $4 \mathrm{~m}(13 \mathrm{ft})$ packing: $1,600 \mathrm{~m} /$ pallet $(5,248 \mathrm{ft})$ 25 bundles à $64 \mathrm{~m}(210 \mathrm{ft})$

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## JetRail JR1417 JetRail JR812



The rail is designed with a safety tongue which avoids the sliding out of the tube
article no. JR812T
JR812TK (with adhesive tape)
for tubing OD $8-10 \mathrm{~mm}\left(1 / 4\right.$ " - $\left.3 / 8^{\prime \prime}\right)$; tube distance $50 \mathrm{~mm}\left(2^{\prime \prime}\right)$; width $35 \mathrm{~mm}\left(13 / 88^{\prime \prime}\right.$; height $18 \mathrm{~mm}\left(6 / 88^{\prime \prime}\right)$ rail length: $2 \mathrm{~m}\left(61 / 2^{\prime \prime}\right)$ (other lengths on request)
packing: 960 m ( $3,149 \mathrm{ft}$ ) / pallet ( 24 bundles à 40 m )
article no. JR1417T
JR1417TK (with adhesive tape)
for tubing OD 14-17 mm (1/2"); tube distance $50 \mathrm{~mm}\left(2^{\prime \prime}\right)$; width $45 \mathrm{~mm}\left(13 / 4^{4}\right)$; height $31 \mathrm{~mm}\left(11 / 4^{\prime \prime}\right)$ rail length: $2 \mathrm{~m}\left(61 / 2^{\prime \prime}\right)$ (other lengths on request) packing: $960 \mathrm{~m}(3,149 \mathrm{ft})$ / pallet ( 30 bundles à 32 m )

## FlipRail XCS16-17W


article no. XCS1617W XCS1617WS (with hinge)
for tubing OD 16-17 mm (1/2"); tube distance $50 \mathrm{~mm}\left(2^{\prime \prime}\right)$; width 30 mm ( $12 / 88^{\prime \prime}$ ); height $22 \mathrm{~mm}\left(7 / 88^{\prime \prime}\right)$ rail length: $1 \mathrm{~m}(31 / 4 \mathrm{ft})$
packing: $1,600 \mathrm{~m}(5,248 \mathrm{ft})$ / pallet ( 160 bundles à 10 m )

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## Clip-Rails

for fastening of tubes for wall- or underfloor-heating


OSK1222 (with adhesive tape)
OSW1222 (with barbed hooks)
for tubes with an OD 12-22 mm (3/8"-3/4") (also oval tubing)
length of the rails: 1 m ( 3 1/4")
packing $100 \mathrm{~m} /$ carton ( 328 ft )


PSK1217 (with adhesive tape) for tubes with an OD 12-17 mm (3/8" - 1/2") length of the rails: $1 \mathrm{~m}\left(31 / 4\right.$ ") or $2 \mathrm{~m}\left(61 / 2^{\prime \prime}\right)$ packing: $100 \mathrm{~m} /$ carton ( 328 ft )

## Holding Pins

for fastening of all Winkler Rails, foils and tube bends on insulation

length: 39 mm (1 1/2")
for tubing OD up to $20 \mathrm{~mm}(5 / 8$ ")
set by: hand
packing:
500 pieces/bag
5,000 pieces/carton

length: 52 mm (2")
for tubing OD up to 26 mm (3/4")
set by: hand
packing:
100 pieces/bag
1,000 pieces/carton

length: 46 mm (1 3/4")
for tubing OD up to 20 mm (5/8")
set by: hand
packing:
500 pieces/bag
5,000 pieces/carton

length: 39 mm (1 1/2")
for tubing OD up to 20 mm (5/8")
set by: WinkPin tool
packing:
250 pieces/carton
in magazines of 25 pieces each

length: 61 mm (2 3/8")
for tubing OD up to 20 mm (5/8")
set by: hand
packing:
500 pieces/bag
5,000 pieces/carton

length: 47 mm (17/8")
for tubing OD up to 20 mm (5/8")
set by: WinkPin tool
packing:
250 pieces/carton
in magazines of 25 pieces each

length: 62 mm (2 1/2")
for tubing OD up to $20 \mathrm{~mm}\left(5 / 8{ }^{\prime \prime}\right)$
set by: WinkPin tool
packing:
250 pieces/carton
in magazines of 25 pieces each

article no. WKP
fixing tool for WPN40, WPN50
and WPN60
packing:
1 piece/carton

## Clips

for fastening of tubes on wire mesh


## article no. 1622

for tubing OD 16-20 mm (1/2" - 5/8")
for wire diameter $3-4,5 \mathrm{~mm}(1 / 8 "-3 / 16 ")$ packing: 1,000 pieces/carton

## article no. 1725PP-4

for tubing OD 17-25 mm (5/8" - 3/4")
for wire diameter 4 mm (3/16")
packing: 1,000 pieces/carton

## article no. 1725PP-6

for tubing OD 17-25 mm (5/8" - 3/4") for wire diameter 6 mm (1/4") packing: 1,000 pieces/carton

for tubing OD 16-20 mm (1/2" - 5/8") for wire diameter 3 mm (1/8") packing: 1,000 pieces/carton

## article no. SC4

for tubing OD 16-20 mm (1/2" - 5/8")
for wire diameter 4 mm (3/16") packing: 1,000 pieces/carton

## article no. 1725PP-3

for tubing OD 17-25 mm (5/8" - 3/4") for wire diameter 3 mm (1/8") packing: 1,000 pieces/carton

## article no. 1725PP-5

for tubing OD 17-25 mm (5/8" - 3/4")
for wire diameter 5 mm (13/64") packing: 1,000 pieces/carton

## article no. 1725PP-8

for tubing OD 17-25 mm (5/8" - 3/4") for wire diameter 8 mm (5/16") packing: 1,000 pieces/carton

for tubing OD 20-26 mm (5/8" - 3/4") for wire diameter 3-8 mm (1/8" - 5/16) packing: 1,300 pieces/carton

Fast mounting of the clip with a setting tool. Variable wire mesh and installation distances due to mounting on the cross wire and cross points.

Holding force of tube bends approx. 30 \% higher compared to other systems.


## MidiClip

article no. MDC1617
for wire mesh with an OD 3 mm (1/8")
for tubes with an OD 16-17 mm (1/2")
packing: 400 pieces/carton
in magazines à 8 pieces


Mounting Tool for MDC1617
article no. MDS1617
length: approx. 93 cm
capacity in magazine approx. 40 pieces
packing: 1 piece/carton

## Plastic Bend Support

The neat solution below the manifold

for tubes with an OD 8-10 mm (12 mm) (3/8")
packing:
50 pieces/bag
500 pieces/carton

with center mounting ears for tubes with an OD 10-16 mm (17mm) (3/8" - 1/2")
packing:
50 pieces/bag
400 pieces/carton

A solution made of plastic for professionals. No corrosion, no sharp edges or burrs. The Plastic Bend Support is also available with center mounting ear (WSKO)

for tubes with an OD 10-16 mm (17mm) (3/8" - 1/2") packing:
50 pieces/bag
500 pieces/carton

with center mounting ears for tubes with an OD 16-18 mm (1/2") packing:
50 pieces/bag
400 pieces/carton


## Winkler Technik


for tubes with an OD 23 mm (3/4")
packing:
50 pieces/box

for tubes with an OD 32-35 mm (11/4")
packing:
50 pieces/box

with center mounting ears for tubes with an OD 25 mm (3/4")
packing:
50 pieces/box

for tubes with an OD 25 mm (3/4")
packing:
50 pieces/box

with center mounting ears for tubes with an OD 20 mm (5/8")
packing:
50 pieces/box

with center mounting ears for tubes with an OD 29 mm (1")
packing:
50 pieces/box

for tubes with an OD 29 mm (1")
packing:
50 pieces/box

with center mounting ears for tubes with an OD 23 mm (3/4")
packing:
50 pieces/box

with center mounting ears for tubes with an OD 32-35 mm
(11/4")
packing:
50 pieces/box

## Tacker Tools

for fastening of tubes on insulation

suitable for staple
E2/E2L
packing: 1 piece/carton

suitable for staple
C0312
packing: 1 piece/carton

article no. TAKOMBI
suitable for staple
R1PP/R1PPL /R2
packing: 1 piece/carton

suitable for staple
S1720GE, R2GE, PANPPLGE packing: 1 piece/carton

suitable for staple
E2GE, E2LGE
packing: 1 piece/carton

## Staples

for fastening of tubes on insulation

article no. E2GE
for tubes with an OD
16-20 mm (1/2" - 5/8")
length: 39 mm (11/2")
packing:
1,000 pieces/carton
in magazines à 20 pieces each

for tubes with an OD
16-20 mm (1/2" - 5/8")
length: 54 mm (2 1/8")
packing:
300 pieces/box
in magazines à 30 pieces each

for tubes with an OD
6-12 mm (1/4" - 1/2")
for cables: 3-8 mm (1/8" - 5/16")
length: 26 mm (1")
packing:
600 pieces/box
12,000 pieces/carton
in magazines à 30 pieces each

article no. E2LGE
for tubes with an OD
16-20 mm (1/2" - 5/8")
length: 54 mm (2 1/8")
packing:
300 pieces/box
in magazines à 20 pieces each

article no. R2GE
for tubes with an OD
16-20 mm (1/2" - 5/8")
length: 39 mm (11/2")
packing:
300 pieces/box
6,000 pieces/carton
in magazines à 30 pieces each

for tubes with an OD
16-20 mm (1/2" - 5/8")
length: 38 mm (14/8")
packing:
300 pieces/box
6,000 pieces/carton
in magazines à 30 pieces each

for tubes with an OD
12-16 mm (3/8" - 1/2")
length: 31 mm (12/8")
packing:
300 pieces/box
6,000 pieces/carton
in magazines à 30 pieces each

# Winkler Technik 

## SW-Clamp

For easy and quick fastening of all conventional pipes of $14-35 \mathrm{~mm}$ diameter (1/2" - 11/4") on a wall or a ceiling


Temperature resistance: $-30^{\circ}$ bis $+85^{\circ} \mathrm{C}$ Surface UV-proof

Connector system combinable with all sizes

## article no. SW15W

for tubes with an OD
14,0-16,5 mm (1/2")
color: white (other colors on request)
packing: 100 pieces/carton

## article no. SW20W

for tubes with an OD
19,5-24,0 mm (3/4")
color: white (other colors on request)
packing: 50 pieces/carton

## article no. SW32W

for tubes with an OD
31,2-35,8 mm (11/4")
color: white (other colors on request)
packing: 50 pieces/carton

## article no. SW17W

for tubes with an OD
16,5-19,5 mm (5/8")
color: white (other colors on request)
packing: 100 pieces/carton

## article no. SW25W

for tubes with an OD
24,2-28,0 mm (1")
color: white (other colors on request)
packing: 50 pieces/carton

## Winkler Rider System

installation of tubes on wooden subfloor

for tubes with an OD up to 18 mm (3/8" - $5 / 8$ ")
length: 36 mm (13/8")
packing: 500 pieces/carton in magazines à 20 pieces

## $90^{\circ}$ Elbows

## conduit elbow for plastic tubing


for tubes with an OD up to 20 mm (5/8")
inside diameter 26 mm (1")
outside diameter 28 mm (1 1/8")
packing: 50 pieces/carton

## article no. BG22/34/37

for tubes with an OD up to 22,2 mm (3/4")
inside diameter 34 mm (13/8")
outside diameter 37 mm (1 1/2") packing: 50 pieces/carton


Fastening Tool for WR16 packing: 1 piece/carton

with socket
for tubes with an OD up to 18 mm (1/2")
inside diameter 25 mm (1")
outside diameter 28 mm (1 1/8")
packing: 100 pieces/carton
article no. BGM20/29/32
with socket
for tubes with an OD up to 20 mm (5/8")
inside diameter 29 mm (1 1/8")
outside diameter 32 mm (1 2/8")
packing: 100 pieces/carton

## Escutcheons

white (other colors on request)

## wall and floor trim - easy mounting



## article no. ROSW 10

for tubes with an OD 10 mm
packing: 100 pieces/bag

```
article no. ROSW 12
```

for tubes with an OD 12 mm packing: 100 pieces/bag
article no. ROSW 14
for tubes with an OD 14 mm packing: 100 pieces/bag

```
article no. ROSW 15
```

for tubes with an OD 15 mm packing: 100 pieces/bag

```
article no. ROSW 16
```

for tubes with an OD 16 mm packing: 100 pieces/bag

## article no. ROSW 3/8"-18

for tubes with an OD $18 \mathrm{~mm}(3 / 8$ ")
packing: 100 pieces/bag

## article no. ROSW 20

for tubes with an OD 20 mm packing: 100 pieces/bag

## article no. HRD_35

tube spacing: $35 \mathrm{~mm}\left(13 / 8{ }^{\prime \prime}\right)$ for tubes with an OD:
Typ A: 12 (3/8"), 15, 18, 20 (5/8") mm (metal tubes) Typ B: 14, 16 (1/2"), 18, 20 (5/8") mm (plastic tubes) packing: 50 pieces/bag

500 pieces/carton

## article no. HRD_45

tube spacing: 45 mm (1 3/4")
for tubes with an OD:
Typ A: 12 (3/8"), 15, 18, 20 (5/8") mm (metal tubes)
Typ B: 14, 16 (1/2"), 18 und 20 (5/8") mm (plastic tubes)
packing: 50 pieces/bag
500 pieces/carton

## article no. ROSW 1/2"-22

for tubes with an OD 22 mm (1/2") packing: 100 pieces/bag

## article no. ROSW 25

for tubes with an OD 25 mm packing: 100 pieces/bag

```
article no. ROSW 3/4"-28
```

for tubes with an OD 28 mm (3/4") packing: 100 pieces/bag

## article no. ROSW 1"-35

for tubes with an OD 35 mm (1")
packing: 100 pieces/bag

## article no. ROSW 1/ 1/4"-42

for tubes with an OD 42 mm (1 1/4") packing: 100 pieces/bag

```
article no. ROSW 1 1/2"-48,8
```

for tubes with an OD 48,8 mm (1 1/2") packing: 50 pieces/bag

```
article no. ROSW 2"-60,8
```

for tubes with an OD 60,8 mm (2") packing: 50 pieces/b

## article no. HRD_40

tube spacing: 40 mm (19/16") for tubes with an OD:
Typ A: 12 (3/8"), 15, 18, 20 (5/8") mm (metal tubes) Typ B: 14, 16 (1/2"), 18, 20 (5/8") mm (plastic tubes) packing: 50 pieces/bag 500 pieces/carton

## article no. HRD_50

tube spacing: 50 mm (2")
for tubes with an OD:
Typ A: 12 (3/8"), 15, 18, 20 (5/8") mm (metal tubes) Typ B: 14, 16 (1/2"), 18, 20 (5/8") mm (plastic tubes) Typ C: 15 mm
packing: $\quad 50$ pieces/bag
500 pieces/carton

## Fastening Hook

for a quick fastening of metal and plastic pipes

for tubes with an OD up to $14-17 \mathrm{~mm}\left(3 / 8^{\prime \prime}-1 / 2^{\prime \prime}\right)$
length: $50 \mathrm{~mm}\left(18 / 8{ }^{\prime \prime}\right)$
shaft $\varnothing 6 \mathrm{~mm}\left(1 / 4^{\prime \prime}\right)$
packing: 1,000 pieces/carton

## article no. RH1720

for tubes with an OD up to $17-20 \mathrm{~mm}\left(1 / 2^{\prime \prime}-5 / 8^{\prime \prime}\right)$
length: $52 \mathrm{~mm}\left(23 / 6^{\prime \prime}\right)$
shaft $\varnothing 6 \mathrm{~mm}(1 / 4 ")$
packing: 1,000 pieces/carton

```
article no. RH2226
```

for tubes with an OD up to 22-26 mm (3/4")
length: $54 \mathrm{~mm}(21 / 8 ")$
shaft $\varnothing 6 \mathrm{~mm}(1 / 4 ")$
packing: 1,000 pieces/carton

## Plastic Nail

for fastening of Winkler Rails on wood, concrete....

length: $\quad 60 \mathrm{~mm}\left(23 / 8^{\prime \prime}\right)$
shaft OD $8 \mathrm{~mm}(5 / 16$ ")
packing: 100 pieces/bag 500 pieces/carton
article no. KN0908
length: $\quad 90 \mathrm{~mm}\left(31 / 2^{\prime \prime}\right)$
shaft OD $8 \mathrm{~mm}(5 / 16$ ")
packing: 100 pieces/bag 500 pieces/carton
article no. KN1208
length: $120 \mathrm{~mm}(43 / 4 ")$
shaft OD $8 \mathrm{~mm}\left(5 / 16{ }^{\prime \prime}\right)$
packing: 100 pieces/bag 500 pieces/carton

with cable tie length: $\quad 60 \mathrm{~mm}\left(23 / 8^{\prime \prime}\right)$ shaft OD $8 \mathrm{~mm}\left(5 / 16{ }^{\prime \prime}\right)$ packing: 1,000 pieces/carton

```
article no. KNK0908
```

with cable tie
length: $\quad 90 \mathrm{~mm}(31 / 2 ")$
shaft OD 8 mm (5/16")
packing: 1,000 pieces/carton

## article no. KNK1208

with cable tie
length: 120 mm (43/4")
shaft OD $8 \mathrm{~mm}\left(5 / 16{ }^{\prime \prime}\right)$
packing: 1,000 pieces/carton

## Hold-Down-Dowel

for safe fastening of insulation and wire mesh


| article no. NH 0608 |  |
| :--- | :--- |
| length: | $60 \mathrm{~mm}\left(23 / 8^{\prime \prime}\right)$ |
| shaft OD | $8 \mathrm{~mm}\left(5 / 16^{\prime \prime}\right)$ |
| packing: | 100 pieces/bag |
|  | 1,000 pieces/carton |

article no. NH1208
length: $120 \mathrm{~mm}(43 / 4 ")$
shaft OD $8 \mathrm{~mm}\left(5 / 16{ }^{\prime \prime}\right)$ packing: 100 pieces/bag 1,000 pieces/carton

## article no. NH0908

length: $\quad 90 \mathrm{~mm}\left(31 / 2^{\prime \prime}\right)$
shaft OD $8 \mathrm{~mm}(5 / 16 ")$
packing: 100 pieces/bag
1,000 pieces/carton

## Fastening Hooks

for safe and sound reduced installation of metal and plastic tubes

## article no. DH0606

for tubes with an OD up to 30 mm (1")
length: $60 \mathrm{~mm}(23 / 8$ ") shaft OD 6 mm (1/4") packing: 100 pieces/bag 1,000 pieces/carton

## article no. DH1208

for tubes with an OD up to 40 mm (1 1/2")
length: $120 \mathrm{~mm}(43 / 4$ ") shaft OD $8 \mathrm{~mm}\left(5 / 16{ }^{\prime \prime}\right)$ packing: $\quad 50$ pieces/bag 1,000 pieces/carton

## article no. DHM

for tubes with an OD up to 55 mm (2")
length: $108 \mathrm{~mm}\left(41 / 4{ }^{\prime \prime}\right)$ shaft OD $8 \mathrm{~mm}\left(5 / 16{ }^{\prime \prime}\right)$ packing: $\quad 50$ pieces/bag 1,000 pieces/carton

article no. DDH0606
for tubes with an OD up to 30 mm (1")
length: $60 \mathrm{~mm}(23 / 8$ ")
shaft OD $6 \mathrm{~mm}\left(1 / 4{ }^{\prime \prime}\right)$
packing: 100 pieces/bag 1,000 pieces/carton

## article no. DDH1208

for tubes with an OD up to 40 mm (1 1/2")
length: $120 \mathrm{~mm}\left(43 / 4{ }^{\prime \prime}\right)$
shaft OD $8 \mathrm{~mm}(5 / 16 ")$
packing: $\quad 50$ pieces/bag
1,000 pieces/carton


## article no. DH0608

for tubes with an OD up to 40 mm (1 1/2")
length: $60 \mathrm{~mm}(23 / 8 ")$
shaft OD $8 \mathrm{~mm}(5 / 16 ")$
packing: $\quad 50$ pieces/bag
1,000 pieces/carton
for tubes with an OD up to 40 mm (1 1/2")
length: $\quad 90 \mathrm{~mm}$ (3 1/2")
shaft OD $\quad 8 \mathrm{~mm}$ (5/16")
50 pieces/bag
1,000 pieces/carton
article no. DDH0908
for tubes with an OD up to 40 mm (1 1/2")
length: $\quad 90 \mathrm{~mm}\left(31 / 2^{\prime \prime}\right)$
shaft OD $8 \mathrm{~mm}(5 / 16 ")$
packing:
50 pieces/bag
1,000 pieces/carton

## Miscellaneous


for insulation
for tubes with an OD 16-20 mm (1/2" - 5/8") packing: 1,000 pieces/carton


Expansion Joint Plate
150 mm (6") high
$8 \mathrm{~mm}(5 / 16$ ") thick
packing: 8 rolls à $50 \mathrm{~m}(164 \mathrm{ft})=$ $400 \mathrm{~m}(1,312 \mathrm{ft})$ / PE bag


Mounting Tool for AC1620 packing: 1 piece/carton


Expansion Joint Profile with adhesive tape length: 2 m (6 1/2 ft) packing: 50 pieces à $2 \mathrm{~m}(61 / 2 \mathrm{ft})=$ 100 m (325 ft)/carton


## article no. SR24/300

Protective Sleeve
for tubes with an OD 18 mm (5/8")
outside OD 24 mm (1")
length: 300 mm (12")
packing: 50 pieces/carton

Protective Sleeve
for tubes with an OD 22 mm (3/4")
outside OD 28 mm (1 1/8")
length: 300 mm (12")
packing: 50 pieces/carton

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Expansion Joint Plate for snap-in panels 130 mm ( 5 1/8") high;10 mm (6/16") thick foot 24 mm (15/16") thick
length: 2 m (6 $1 / 2 \mathrm{ft}$ )
packing: 25 pieces à $2 \mathrm{~m}=50 \mathrm{~m} / \mathrm{c}$ arton

color: black
packing: 1 set:
100 pieces/carton
incl. 1 Plopfix-Setter PFS


## article no. T-Anchor

fastening of Winkler U-Rails on insulation
(Mounting Tool available)
packing: 500 pieces/carton


Manifold Holder
for Manifolds OD
29-35 mm (1" - 11/2")
with small retaining clips
offset $27 \mathrm{~mm}(11 / 16$ ")
packing: 10 pairs/carton

for fixing heating tubes into snap-in panels distance between fixing points: $50 \mathrm{~mm}(2 \mathrm{C})$ packing: $\quad 100$ pieces/bag 5,000 pieces/carton

## article no. VH45

Manifold Holder
for Manifolds OD
29-35mm (1"-11/2")
with small retaining clips offset $45 \mathrm{~mm}\left(13 / 4^{\prime \prime}\right)$ packing: 10 pairs/carton

## Pipe installation possibilities


installation with mounting rail

installation with staple system

installation on wire mesh

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## Do you have any questions? Would you like to place an order? Contact us! Our sales team will gladly assist you!

## Heike Flesch

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## This is why we are the right partner for you:

## You're important to us!

That means it's important for us to listen to you, while fostering a successful partnership and gladly offering advice. Benefit from our long-standing experience along with our enormous network in the HVAC sector.

## You receive highest quality manufactured in Germany and Switzerland at totally fair prices!

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Our customer satisfaction is an outstanding $99 \%$.

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