

# Price list 2022

Valid from 1st March 2022



# Your integrated solution. From a single source.



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Bundled product variety- broad expertise - over 200 years of experience in application



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#### **PUK**

Our brand for cable management and underfloor systems, as well as reliable wireless charging protection to equip buildings more efficiently and securely.



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#### **JORDAHL**

Well known as the inventor of the anchor channel and for reliable reinforcement, fastening, and connection solutions in innovative architecture.



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#### **H-BAU Technik**

The brand stands for solutions in the categories sealing, thermal insulation, formwork, sound insulation and reinforcement for a wide variety of applications.

# Product categories

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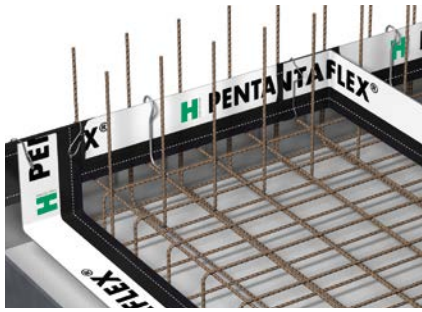
Accessories



# Sealing

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## PENTAFLEX KB® 167 with standardised line

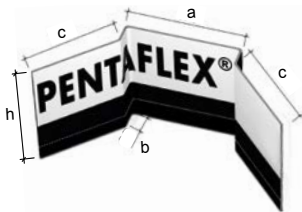


PENTAFLEX KB® elements are fully coated on both sides with a special coating. The connection of the special coating with the fresh concrete reliably prevents water from infiltrating the joint system. An anchoring depth of at least 30 mm is sufficient to withstand a tested water pressure of 5.0 bar (**according to abP 2.0 bar**). The standardised line allows the minimum embedment depth of the PENTAFLEX KB® elements to be checked easily during concreting and without labour-intensive measurement verification. The high elasticity of the coating ensures reliable sealing when the concrete structural components shrink.

- ETA-15/0003
- abP
- Radon-tight
- Supplied with joint clips and cross clips

Item number	Height [mm]	Element length [mm]	Weight [kg/m]	Packaging unit [m]	Packaging unit [m/Pal.]	Price per m [€]
110100005565	167	2000	0.90	100 (crate)	-	10.10
110100005567	167	25.000	0.90	25 (roll)	600	10.65

## PENTAFLEX KB® corner with standardised line



PENTAFLEX KB® corner element for use in corner construction joints. Tested for watertightness up to 5.0 bar (**according to abP 2.0 bar**).

- ETA-15/0003
- abP
- **Obligatory when using PENTAFLEX® FTS corner elements.**
- For technical description, see PENTAFLEX KB®
- Supplied with joint clips

Item number	Dimensions [mm]				Weight [kg/pc.]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
	a	b	c	h				
110100013968	170	30	135	167	0.45	4	200	12.40
110100013969	170	30	135	80	0.20	4	200	18.50

## PENTAFLEX KB® 80 with standardised line



Sealing construction joints in wall-ceiling connections. Watertight **according to abP 1.0 bar**.

- ETA-15/0003
- abP
- Supplied with joint clips

Item number	Height [mm]	Element length [mm]	Weight [kg/m]	Packaging unit [m/crate]	Price per m [€]
110100005569	80	2000	0.45	100	11.10

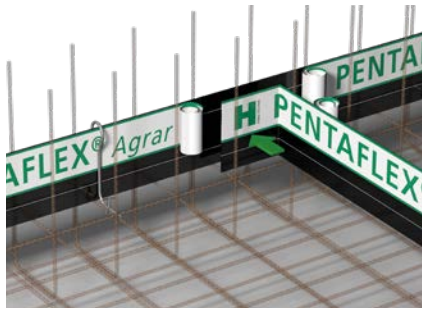
## PENTAFLEX® tape



Special tape designed as an additional securing means, such as for cross-points in special structures.

Item number	Width [mm]	Weight [kg/roll]	Packaging unit [rolls/box]	Price per roll [€]
110300014851	38	Roll per 10 m	16	35.00

## PENTAFLEX KB® 167 Agrar with standardised line

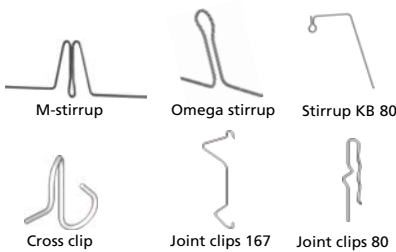


PENTAFLEX KB®167 Agrar elements are fully coated on both sides with a special coating. The seam sheets are regulated by abZ. Z. 74.101-175. Thus the seam sheets are suitable for use in storage and filling facilities for liquid manure and slurry according to §2(13) AwSV as well as biogas plants, which contain fermentation substrates of agricultural origin according to §2 (8) AwSV except substrates which contain plant oils. **ATTENTION: Since the inception of AwSV, only products, that are regulated by building authorities are permitted for this application.**

- **abZ Z-74.101-175**
- Delivery includes 3 x joint clips, 20 x omega stirrup, 2 PENTAFLEX® band strips
- tested to 2.0 bar: DIBt approval 0.8 bar (safety factor of 2.5)

Item number	Height [mm]	Element length [mm]	Weight [kg/m]	Packaging unit [rolls/box]	Price per m [€]
110100020287	167	Roll per 10 m	1.1	2	14.40

## PENTAFLEX® stirrups and clips



Stirrups and clips for fastening the PENTAFLEX® elements.

Item number	Type	Weight [kg/pc.]	Packaging unit [pcs]	Price per pc.. [€]
110300013976	M-stirrup	0.06	25	1.00
110300004791	Omega stirrup	0.12	25*	1.00
110300013973	Stirrup KB 80	0.08	25	1.00
110300013975	Cross clip	0.02	25	1.00
110300014104	Joint clips 167	0.02	25	1.00
110300014105	Joint clips 80	0.02	25	0.85

\* or 4200 pcs/pallet

## PENTAFLEX® module NEW



Installation situation after concreting

PENTAFLEX® module for sealing construction joints with continuous shuttering, e.g. between wall and underground car park ramp or between light well and basement wall. The element consists of a storage box and integrated 60 mm wide seam sheet PENTAFLEX KB®. The construction of the module guarantees that the seam sheet is embedded 30 mm into the building components to be connected in accordance with **abP**.

- **Element can be installed together with FERBOX® E types**
- Element lengths: 800 mm or 1200 mm, other lengths on request
- Surcharge for special length + 10 %



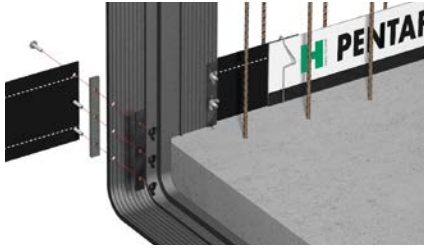
PENTAFLEX® module

Item number		Price per m [€]
110400022083	PENTAFLEX® module 1200 mm	19.70
110400024200	PENTAFLEX® module 800 mm	19.70

Item number		Price per pc. [€]
110400024201	PENTAFLEX® module corner element 200x200	13.75

## PENTAFLEX® joint tape connection FBA

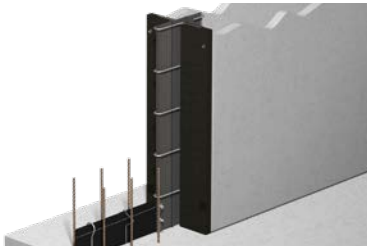


Element for connecting PENTAFLEX KB® with expansion joint tapes.  
**Tested for watertightness up to 5.0 bar.**

Required per connection:  
1 set (comprising 2 pcs)

Item number	Weight [kg/box]	Packaging unit [set/box]	Price per set [€]
110100005614	0.88	1	61.40

## PENTAFLEX® sound-insulating cage STK



Prefabricated joint cage element for producing water-impervious sound insulation joints for double wall panels.

- Element length: 3000 mm
- For wall widths from 240 mm
- Joint width: 30 mm
- Supplied with knock-in anchors for fastening (6 pcs/set)
- The sound insulation joint tape must be ordered separately
- Other dimensions and designs available on request

Item number	Wall thickness [mm]	Tape width [mm]	Weight [kg/set]	Packaging unit [set/pal.]	Price per set [€]
111500004774	240 / 250	240	8.68	20	136.50
111500004775	300	240	9.83	20	143.30
111500004776	365	240	10.86	10	150.30
111500019816	240 / 250	320	8.59	20	157.00
111500019818	300	320	9.60	20	164.85
111500019817	365	320	10.16	10	172.85

## PENTAFLEX® sound insulation joint tape

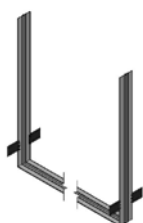


Compatible with the sound-insulating cage STK with pre-assembled PENTAFLEX® joint tape connection to connect with PENTAFLEX KB® 167.

- Element length: 3000 mm

Item number	Tape width [mm]	Weight [kg/pc.]	Packaging unit [pcs/box]	Price per pc. [€]
111600004788	240	4.72	1	172.05
111600004792	320	6.85	1	181.45

## PENTAFLEX® sound insulation joint tape for structural joints



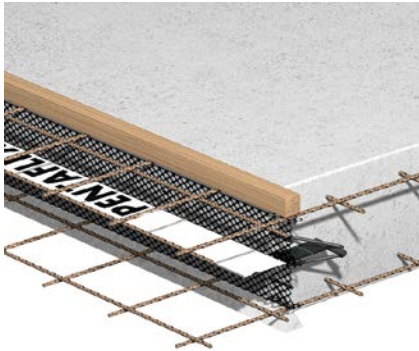
Compatible with the sound-insulating cage STK incl. PENTAFLEX® joint tape connection to connect with PENTAFLEX KB® 167.

- Element length: object-dependent
- Please use our BK 02 order form
- Price on request

The associated order forms can be found at [www.pohlcon.de](http://www.pohlcon.de)



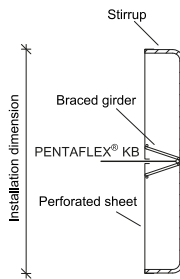
## PENTAFLEX® ABS



Shuttering elements for water-impermeable construction joints in reinforced concrete components. Please specify the connection area floor to floor, ceiling to ceiling, or wall to wall when ordering. Designs with stiffening lattice girder construction as rough (ABS R) or toothed (ABS V) joint according to DIN EN 1992-1-1/NA are available. In the toothed version ABS V-S, the lattice girder construction is reinforced. Sealing is created by PENTAFLEX KB® seam sheets. Waterproof to 5.0 bar (according to abP 2.0 bar).

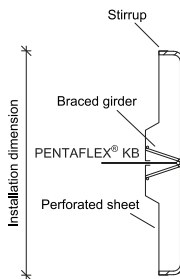
- **ETA-15/0003**
- **abP**
- **When ordering, please specify joint length, installation height (E dimension), and connection points!**
- E-dimension = Clearance between upper and lower reinforcement (mm).
- Element length: 2400 mm, other dimensions and designs on request
- Corner surcharge + 15.50 €/piece
- Surcharge for conical cut + 7.90 €/m
- Surcharge for short pieces + 10%
- Eccentric joint + 10%

### PENTAFLEX® ABS R - rough joint according to EC2 (wall to wall: design with shortened lattice girder)



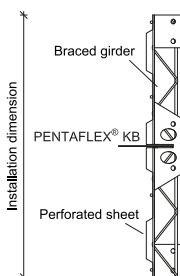
Item number floor to floor	Item number wall to wall	Installation height [mm]	Weight [kg/m]	Price per m [€]
111700022084	111900022862	80–200	2.37	41.50
111700022085	111900022863	210–250	2.60	42.90
111700022086	111900022864	260–300	2.82	44.10
111700022087	111900022865	310–350	3.26	50.10
111700022088	111900022866	360–400	3.50	51.30
111700022089	111900022867	410–500	3.99	56.70
111700022090	111900022868	510–590	4.92	66.00

### PENTAFLEX® ABS V - toothed joint according to EC2 (wall to wall: design with shortened lattice girder)



Item number floor to floor	Item number wall to wall	Installation height [mm]	Weight [kg/m]	Price per m [€]
111800022091	112000022869	140–200	2.61	51.10
111800022092	112000022870	210–250	2.74	52.70
111800022093	112000022871	260–300	2.96	54.20
111800022094	112000022872	310–350	3.34	60.20
111800022095	112000022873	360–400	3.59	61.60
111800022096	112000022874	410–500	4.08	66.90
111800022097	112000022875	510–590	5.46	76.40

### PENTAFLEX® ABS V-S - toothed joint according to EC2 (reinforced design)



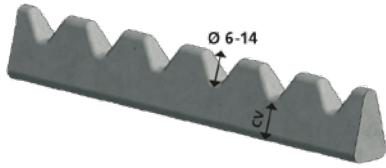
Item number floor to floor & wall to wall	Installation height [mm]	Weight [kg/m]	Price per m [€]
112200022098	600–690	4.82	79.30
112200022099	700–790	5.21	81.90
112200022100	800–890	6.78	84.80
112200022101	900–990	7.15	87.50
112200022102	1000–1090	8.96	96.20
112200022103	1100–1190	9.40	105.80
112200022104	1200–1290	9.84	115.40
112200022105	1300–1390	10.94	125.10
112200022106	1400–1490	11.38	134.60
112200022107	1500–1590	11.82	144.30
112200022108	1600–1690	14.01	153.90
112200022109	1700–1790	14.49	163.50
112200022110	1800–1890	14.98	173.10
112200022111	1900–1990	16.81	182.70



Shuttering without PENTAFLEX® sealing elements can be found in the section Formwork, pages 83/84.

To support the lower reinforcement layer we recommend our FB shuttering strips A-CV or AS-CV on page 10.

## Fibre-reinforced concrete shuttering strip A-CV

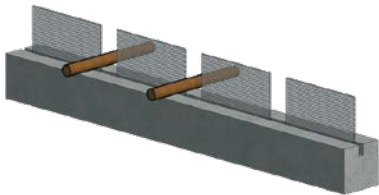


Spacer made of fibre-reinforced concrete, with 50 mm reinforcement grid for 6-14 mm rod diameters. 20-60 mm concrete covering. Reduces concrete seepage for shuttered construction joint (floor/floor and ceiling/ceiling) to a minimum. Can be used with PENTAFLEX® ABS, page 9 and KUNEX® ABS, page 30 as well as shuttering elements, page 83/84.

- Other dimensions available on request

Item number	Type	Concrete covering [mm]	Height/length [mm]	Packaging unit [pcs/pal.]	Weight [kg/pc.]	Price per pc. [€]
620300003455	A-CV 20	20	40/1000	300	1.85	3.60
620300003456	A-CV 25	25	45/1000	300	2.40	3.70
620300003457	A-CV 30	30	50/1000	300	2.60	4.10
620300003458	A-CV 35	35	55/1000	300	3.10	4.60
620300003459	A-CV 40	40	60/1000	200	3.20	5.50
620300003460	A-CV 45	45	65/1000	200	3.90	7.10
620300003461	A-CV 50	50	70/1000	200	4.80	7.90
620300003462	A-CV 60	60	80/1000	150	5.20	8.60

## Fibre-reinforced concrete shuttering strip AS-CV



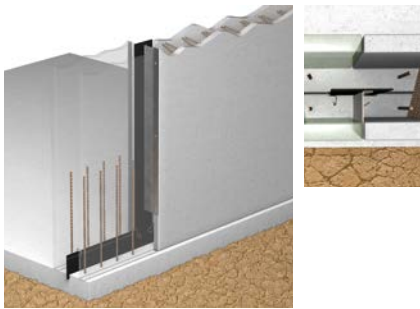
Square spacer made of fibre-reinforced concrete incl. expanded metal strips, with 100/150/200 mm reinforcement spacing for 30-50 mm concrete covering. Reduces concrete seepage with shuttered construction joint (floor/floor and ceiling/ceiling) to a minimum. Can be used with PENTAFLEX® ABS, page 9 and KUNEX® ABS, page 30 as well as shuttering elements, page 83/84.

- Other dimensions available on request.
- When ordering, please specify the rod diameter.

Item number	Type	Concrete covering [mm]	Expanded metal [mm]	Height/length [mm]	Packaging unit [pcs/pal.]	Weight [kg/pc.]	Price per pc. [€]
620400018716	AS-CV 30/100/80	30	80	100	110/1000	2.81	12.00
620400018717	AS-CV 30/150/80	30	80	150	110/900	2.85	12.80
620400018718	AS-CV 30/200/80	30	80	200	110/1000	3.17	14.40
620400018719	AS-CV 35/100/80	35	80	100	115/1000	3.64	12.90
620400018720	AS-CV 35/150/80	35	80	150	115/900	3.28	14.40
620400018721	AS-CV 35/200/80	35	80	200	115/1000	3.64	17.20
620400018722	AS-CV 40/100/80	40	80	100	120/1000	4.17	13.60
620400018723	AS-CV 40/150/80	40	80	150	120/900	3.75	15.20
620400018724	AS-CV 40/200/80	40	80	200	120/1000	4.17	18.00
620400018725	AS-CV 50/100/80	50	80	100	130/1000	4.97	15.00
620400018726	AS-CV 50/150/80	50	80	150	130/900	4.47	16.40
620400018727	AS-CV 50/200/80	50	80	200	130/1000	4.97	19.20

Item number	Type	Concrete covering [mm]	Expanded metal [mm]	Height/length [mm]	Packaging unit [pcs/pal.]	Weight [kg/pc.]	Price per pc. [€]
620400024250	AS-CV 30/100/120	30	120	100	150/1000	3.11	12.00
620400024251	AS-CV 30/150/120	30	120	150	150/900	3.15	12.80
620400024252	AS-CV 30/200/120	30	120	200	150/1000	3.47	14.40
620400024253	AS-CV 35/100/120	35	120	100	155/1000	3.94	12.90
620400024254	AS-CV 35/150/120	35	120	150	155/900	3.58	14.40
620400024255	AS-CV 35/200/120	35	120	200	155/1000	3.94	17.20
620400024256	AS-CV 40/100/120	40	120	100	160/1000	3.58	13.60
620400024257	AS-CV 40/150/120	40	120	150	160/900	3.94	15.20
620400024258	AS-CV 40/200/120	40	120	200	160/1000	4.47	18.00
620400024259	AS-CV 50/100/120	50	120	100	170/1000	4.05	15.00
620400024260	AS-CV 50/150/120	50	120	150	170/900	4.47	16.40
620400024261	AS-CV 50/200/120	50	120	200	170/1000	5.27	19.20

## PENTAFLEX® FTS joint



The PENTAFLEX® FTS joint prefabricated crack control element creates a crack at a predetermined point at the joints between element walls, reliably sealing them. No other sealing measures are necessary. Tested for watertightness up to 5.0 bar (**according to abP 2.0 bar**).

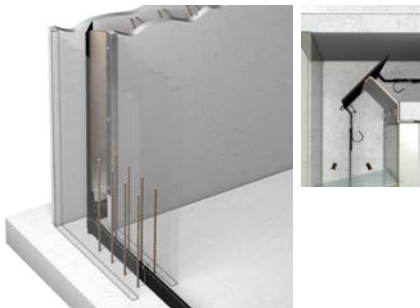
- **ETA-15/0003**
- **abP**
- Element length: 2500, 2750 or 3000 mm
- Other wall widths available on request\*
- Supplied with cross clips and knock-in anchors for fastening

Item number	Wall width [mm]	Element length [mm]	Weight [kg/m]	Packaging unit [pcs/pal.]	Price per m [€]
110600004406	240–280	2500	1.84	28	31.60
110600004407	240–280	2750	1.84	28	31.60
110600004408	240–280	3000	1.84	28	31.60
110600004409	290–340	2500	2.00	28	31.60
110600004410	290–340	2750	2.00	28	31.60
110600004411	290–340	3000	2.00	28	31.60
110600004412	350–400	2500	2.20	28	36.20
110600004413	350–400	2750	2.20	28	36.20
110600004414	350–400	3000	2.20	28	36.20

### Additional products for FTS joint

		Surcharge [€]
Fixed length surcharge	Per pc.	15.90
*Wall width > 400 mm	Every 100 mm width per m	4.80

## PENTAFLEX® FTS corner



The PENTAFLEX® FTS corner prefabricated crack control element creates a crack at a predetermined point at the joints between double-wall panels, reliably sealing them. No other sealing measures are necessary. Tested for watertightness up to 5.0 bar (according to abP 2.0 bar).

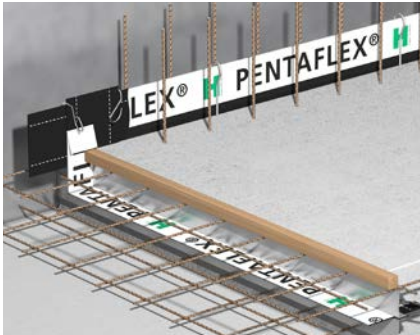
- **ETA-15/0003**
- **abP**
- **It is necessary to install the PENTAFLEX® KB corner element (page 6) in the base plate for connection to the floor/wall joint**
- Element length: 2500, 2750 or 3000 mm
- Other wall widths available on request\*
- Supplied with cross clips and knock-in anchors for fastening

Item number	Wall width [mm]	Element length [mm]	Weight [kg/m]	Packaging unit [pcs/pal.]	Price per m [€]
110600004396	240–280	2500	2.00	28	33.30
110600004397	240–280	2750	2.00	28	33.30
110600004398	240–280	3000	2.00	28	33.30
110600004399	290–340	2500	2.15	28	33.30
110600004400	290–340	2750	2.15	28	33.30
110600004401	290–340	3000	2.15	28	33.30
110600004402	350–400	2500	2.30	28	37.80
110600004403	350–400	2750	2.30	28	37.80
110600004404	350–400	3000	2.30	28	37.80

### Additional products for FTS corner

		Surcharge [€]
Fixed length surcharge	Per pc.	15.90
*Wall width > 400 mm	Every 100 mm width per m	4.80

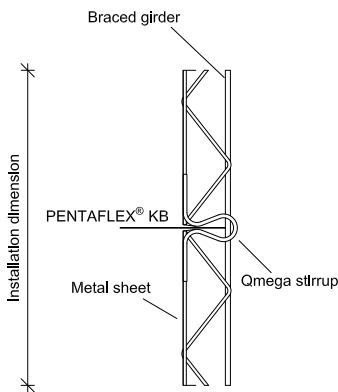
## PENTAFLEX® OBS floor slab



The cast-in-situ crack control element PENTAFLEX® OBS floor slab for the controlled creation of a crack at a predetermined point in in-situ concrete floor slabs and simultaneously sealing in the crack. Tested for watertightness up to 5.0 bar (**according to abP 2.0 bar**).

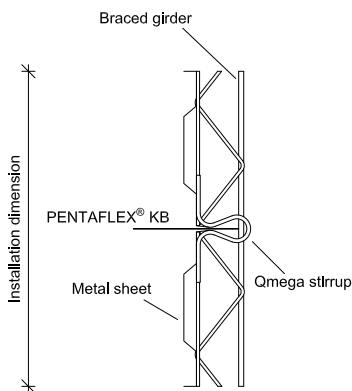
- **ETA**
- **abP**
- **Expert opinion: When ordering, please specify the joint length, installation height (E dimension) and connection points.**
- E dimension = Clear distance between upper and lower reinforcement [mm]
- Element length: 2500 mm, other dimensions, and designs available on request
- Corner surcharge + 15.50 €/pc.
- Surcharge for conical cut + 7.90 €/m
- Surcharge for short pieces + 10%
- Eccentric joint guide + 10%

### PENTAFLEX® OBS-X floor/floor – very smooth joint according to EC2



Item number	Installation height [mm]	Weight [kg/m]	Price per m [€]
110700020328	80–200	2.37	41.50
110700020330	210–250	2.60	42.80
110700020325	260–300	2.82	44.10
110700020326	310–350	3.26	50.10
110700020327	360–400	3.50	51.20
110700020332	410–500	3.99	56.70
110700020329	510–600	4.92	65.90
110700020316	610–700	5.41	68.60
110700020320	710–800	9.87	71.10
110700020317	810–900	10.39	73.80
110700020318	910–1000	10.92	76.40

### PENTAFLEX® OBS-XV floor/floor – interlocking joint according to EC2

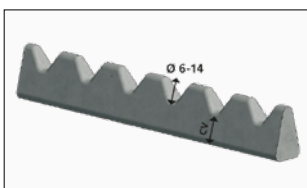


Item number	Installation height [mm]	Weight [kg/m]	Price per m [€]
110700019961	140–200	2.61	51.10
110700019962	210–250	2.74	52.70
110700019963	260–300	2.96	54.20
110700019964	310–350	3.34	60.20
110700019965	360–400	3.59	61.60
110700020319	410–500	4.08	66.90
110700020331	510–600	5.46	76.40
110700020322	610–700	5.95	79.30
110700020321	710–800	8.90	81.90
110700020323	810–900	9.39	84.80
110700020324	910–1000	9.88	87.50

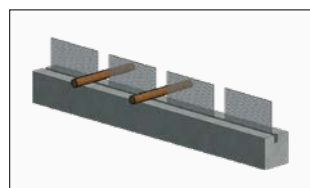


Shuttering without PENTAFLEX® sealing elements can be found in the section Formwork, pages 83/84.

To support the lower reinforcement layer we recommend our FB shuttering strips A-CV or AS-CV on page 10.

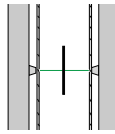


A-CV



AS-CV

## PENTAFLEX® OBS



The PENTAFLEX® OBS cast-in-situ crack control element for the controlled creation of a crack at a predetermined point in in-situ concrete walls and simultaneously sealing the crack.

Tested for watertightness up to 5.0 bar (**according to abP 2.0 bar**).

- **ETA-15/0003**
- **abP**
- **Expert opinion**

**When ordering, please specify the joint length and installation height (E dimension)!**

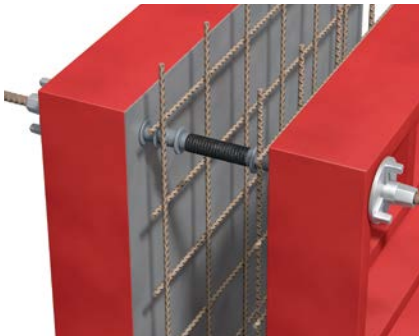
- Element length: 2500, 2750 or 3000 mm
- E dimension = Clear distance between internal and external reinforcement [mm]
- Other E dimensions available on request
- Supplied with cross clips for fastening

Item number [...]	E dimension [mm]	Weight [kg/m]	Packaging unit [pcs/pal.] l=2500 mm	Packaging unit [pcs/pal.] l=2750 mm	Packaging unit [pcs/pal.] l=3000 mm	Price per m [€]
1107...	140	2.45	28	25	25	36.20
1107...	180	2.60	28	25	25	36.20

### Additional products for OBS

	Surcharge [€]
Fixed length surcharge	Per pc. 19.30
E dimension 150–170 mm	Per m 4.80
E dimension ≥ 190 mm	Every 100 mm width per m 4.80

## PENTAFLEX® OPTI wall strengtheners



Watertight tie points. **Tested for watertightness up to 5.0 bar.**

- Supplied with sealing plugs and OPTI plugs
- Other lengths available on request

Item number	Inner dia. [mm]	Length [mm]	Weight [kg/pc.]	Packaging unit [pcs/box]	Packaging unit [boxes/pal.]	Price per pc. [€]
111400002312	22	240	0.06	50	20	1.50
111400002313	22	250	0.06	50	20	1.50
111400002315	22	300	0.07	50	20	1.50
111400002317	22	350	0.08	50	20	1.60
111400002318	22	365	0.08	50	20	1.60
111400002319	22	400	0.09	50	20	1.60
111400002320	22	450*	0.10	50	20	1.70
111400002321	22	500*	0.10	50	20	2.00

\* plugged version

## PENTAFLEX® Transwand DM



Exemplary illustration

Watertight wall lead-throughs in in-situ concrete or element walls.

**Version with double sleeve.**

- Pipe material: PVC
- Version waterproof tested to 5.0 bar
- For dimensions DN 125 and DN 160, see Transwand DM-PP
- **Specify the length in mm when ordering**

Item number [...]	DN [mm]	Wall thickness [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
1109...	110	240–500	1	60	40.60

## PENTAFLEX® Transwand



Exemplary illustration

Watertight wall lead-throughs in in-situ concrete or element walls.

**Version with sleeve and pull-over sleeve.**

- Pipe material: PVC
- Version waterproof tested to 5.0 bar
- Wall thickness 310–500 mm with styrofoam ring instead of pull-over sleeve
- **Specify the DN and length in mm when ordering**

Item number [...]	DN [mm]	Wall thickness [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
1109...	110	240–500	1	60	47.20
1109...	125	240–500	1	20	54.80
1109...	160	240–500	1	20	62.60
1109...	200	240–500	1	10	91.50

## PENTAFLEX® Transwand PP



Exemplary illustration

Watertight wall lead-throughs in in-situ concrete or element walls.

**With sleeve and polystyrene ring.**

- Pipe material: PP
- Version waterproof tested to 5.0 bar
- **Specify the DN and length in mm when ordering**

Item number [...]	DN [mm]	Wall thickness [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
1109...	110	240–500	1	60	47.20
1109...	125	240–500	1	20	54.80
1109...	160	240–500	1	20	62.60
1109...	200	300–500	1	20	91.50

Material colours may differ from the illustration.

## PENTAFLEX® Transwand DM-PP



Exemplary illustration

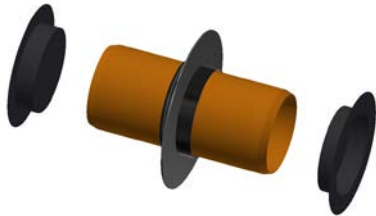
Watertight wall lead-throughs in in-situ concrete or element walls.

**Version with double sleeve.**

- Pipe material: PP
- Version waterproof tested to 5.0 bar
- **Specify the DN and length in mm when ordering**

Item number [...]	DN [mm]	Wall thickness [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
1109...	110	240–500	1	60	45.50
1109...	125	240–500	1	20	50.00
1109...	160	300–500	1	20	57.60

## PENTAFLEX® protective tube



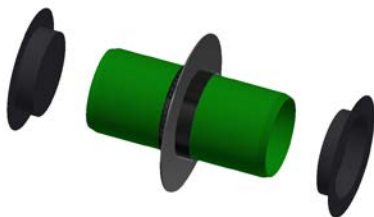
Exemplary illustration

Watertight protective tubes in in-situ concrete or element walls.

- Pipe material: PVC
- Version waterproof tested to 5.0 bar
- From DN 200 with polystyrene plugs instead of covers
- **Specify the DN and length in mm when ordering**

Item number [...]	DN [mm]	Wall thickness [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
1110...	110	240–500	1	60	31.90
1110...	125	240–500	1	20	35.85
1110...	160	240–500	1	20	39.90
1110...	200	240–500	1	–	44.40
1110...	250	240–500	1	–	56.70

## PENTAFLEX® protective tube PP



Exemplary illustration

Watertight protective tubes in in-situ concrete or element walls.

- Pipe material: PP
- Version waterproof tested to 5.0 bar
- From DN 200 with polystyrene plugs instead of covers
- **Specify the DN and length in mm when ordering**

Item number [...]	DN [mm]	Wall thickness [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
1110...	110	240–500	1	60	37.60
1110...	125	240–500	1	20	44.05
1110...	160	240–500	1	20	55.70
1110...	200	240–500	1	–	76.40
1110...	250	240–500	1	–	123.20

Material colours may differ from the illustration.



## PENTAFLEX® floor lead-through



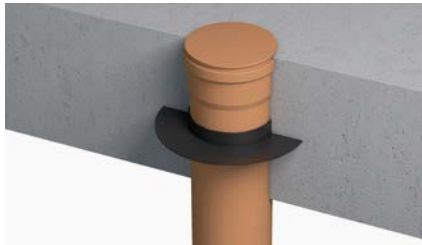
Exemplary illustration

Watertight floor lead-throughs.

- Pipe material: PVC
- Version waterproof tested to 5.0 bar
- Other dimensions, see PENTAFLEX® floor lead-through PP
- **Specify the length in mm when ordering**

Item number	DN [mm]	Length [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
111100004284	110	500	1	40	40.65

## PENTAFLEX® floor lead-through PP



Exemplary illustration

Watertight floor lead-throughs.

- Pipe material: PP
- Version waterproof tested to 5.0 bar
- From DN 125 with polystyrene cover
- **Specify the DN and length in mm when ordering**

Item number	DN [mm]	Length [mm]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per pc. [€]
111100004295	110	500	1	40	44.60
111100004296	125	500	1	24	49.65
111100004297	160	500	1	12	60.10
111100004298	200	500	1	–	94.15

## PENTAFLEX® floor drain



Exemplary illustration

For use with water-impervious reinforced concrete slabs (white tank).

With removable odour trap.

- With R90 or multistop on request
- Attachment piece, height-adjustable by 50 mm
- Other dimensions, designs, and load parameters available on request

Item number	DN [mm]	Cover dimensions [mm]	Slotted grate design	Max. load [t]	Packaging unit [pcs/box]	Price per pc. [€]
111200004236	110	138 x 138	ABS	0.3	1	74.05
111200004235	110	138 x 138	Stainless steel	1.5	1	198.80
111200004238	110	138 x 138	Stainless steel	0.3	1	100.20

## PENTAFLEX® extension piece

Item number	DN [mm]	Dimensions [mm]	Packaging unit [pcs/box]	Price per pc. [€]
111200004255	110	100	1	26.50

Material colours may differ from the illustration.





## KUNEX® internal construction joint tape



KUNEX® internal PVC-P construction joint tape for sealing construction joints in concrete structures. Placing in center of the concrete cross-section.

**Joint tapes in accordance with DIN 18541 or company standard with general supervisory test certificate (abP).**

- Material: soft, black PVC
- Surcharge for bitumen-compatible joint tapes + 50%
- Version with eyelets available on request, eyelet spacing 200 mm

### Internal construction joint tape in accordance with DIN

Item number	Type	Width [mm]	Height of anchor rib [mm]	Width of expansion element [mm]	Thickness of expansion element [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
120100002661	A240 DIN	240	15	80	3.5	25	500	1.35	6.50
120100002676	A320 DIN	320	15	100	4.5	25	400	1.86	8.80
120100002683	A500 DIN	500	20	150	6.0	20	40	3.80	17.85

**Surcharge for bitumen-compatible joint tapes + 50%**

### Internal construction joint tape in accordance with company standard with abP

Item number	Type	Width [mm]	Height of anchor rib [mm]	Width of expansion element [mm]	Thickness of expansion element [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
120100002634	A100	100	8	47	2.0	25	1000	0.37	2.50
120200002640	A150	150	15	55	3.0	25	600	0.94	3.15
120100002647	A190	190	15	70	3.0	25	500	1.10	3.40
120100002659	A240	240	15	80	3.5	25	500	1.40	4.50
120100002674	A320	320	15	100	4.5	25	400	2.10	7.05
120100002681	A500	500	20	150	6.0	20	40	4.00	13.35

## KUNEX® steel-reinforced construction joint tape



KUNEX® internal PVC-P construction joint tape with for spring-steel reinforcement for sealing construction joints in concrete structures.

**Joint tapes in accordance with company standard with supervisory test certificate (abP).**

- Material: soft, black PVC
- Surcharge for bitumen-compatible joint tapes + 50%
- Version with eyelets available on request, eyelet spacing 200 mm

### Internal construction joint tape in accordance with company standard

Item number	Type	Width [mm]	Height of anchor rib [mm]	Width of expansion element [mm]	Thickness of expansion element [mm]	External thickness [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
120200002636	A100S	100	15	40	3.5	11	25	500	0.74	3.60
120200002637	A100SL	100	15	40	3.5	11	25	500	0.73	3.40
120200002642	A150S	150	15	58	3.5	11	25	600	0.99	3.80
120200002646	A150SO	150	15	58	3.5	11	25	600	0.96	3.90
120200002649	A190S	190	15	78	4.0	11	25	500	1.50	5.30
120200002650	A190SL	190	15	78	4.0	11	25	500	1.47	5.10
120200002656	A190SL7	190	15	78	4.0	11	25	500	1.46	4.80
120200002653	A190SL6	190	15	78	4.0	11	25	500	1.44	4.60
120200002651	A190SL5	190	15	78	4.0	11	25	500	1.43	4.40
120200002658	A190SO	190	15	78	4.0	11	25	500	1.50	5.40
120200002663	A240S	240	15	85	4.0	11	25	500	1.63	6.40
120200002664	A240SL	240	15	85	4.0	11	25	500	1.59	6.00
120200002670	A240SL7	240	15	85	4.0	11	25	500	1.62	5.90
120200002667	A240SL6	240	15	85	4.0	11	25	500	1.60	5.60
120200002665	A240SL5	240	15	85	4.0	11	25	500	1.59	5.40
120200002672	A240SO	240	15	85	4.0	11	25	500	1.63	6.60
120200002673	A240SO2	240	15	85	4.0	11	25	500	1.63	6.70
120200002678	A320S	320	15	100	4.5	11	25	400	2.23	7.80
120200002679	A320SL	320	15	100	4.5	11	25	400	2.18	7.40
120200002680	A320SO	320	15	100	4.5	11	25	400	2.23	8.00

#### Key:

100 mm (S) =	10 x spring steel insert/m	(example type: A190 S)	O = with single-sided eyelet
125 mm (SL) =	8 x spring steel insert/m	(example type: A190 SL)	O2 = with double-sided eyelet
150 mm (SL7) =	7 x spring steel insert/m	(example type: A190 SL7)	
175 mm (SL6) =	6 x spring steel insert/m	(example type: A190 SL6)	
200 mm (SL5) =	5 x spring steel insert/m	(example type: A190 SL5)	

## KUNEX® external construction joint tape



KUNEX® external PVC-P construction joint tape for sealing construction joints in concrete structures. Installed flush with the surface of the concrete component.

**Joint tapes in accordance with DIN 18541 or company standard with general supervisory test certificate (abP).**

- Material: soft, black PVC

### External construction joint tape in accordance with DIN

Item number	Type	Width [mm]	Height of profile [mm]	No. of stop anchors	Width of expansion element [mm]	Thickness of expansion element [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
120400002697	AA240/20 DIN	240	20	4	80	4.0	25	100	1.90	9.40
120400002700	AA240/25 DIN	240	25	4	80	4.0	25	100	1.94	9.80
120400002704	AA240/35 DIN	240	35	4	84	4.0	25	100	2.90	13.80
120400002710	AA320/25 DIN	320	25	6	100	4.0	25	100	2.65	12.60
120400002714	AA320/35 DIN	320	35	6	100	4.0	25	100	3.91	18.20
120400002718	AA500/35 DIN	500	35	8	120	4.0	20	40	5.10	25.90
<b>Surcharge for bitumen-compatible joint tapes + 50%</b>										

### External construction joint tape in accordance with company standard with abP

Item number	Type	Width [mm]	Height of profile [mm]	No. of stop anchors	Width of expansion element [mm]	Thickness of expansion element [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
120400002693	AA190/17	190	17	4	80	3.7	25	125	1.54	5.50
120400002695	AA240/20	240	20	4	80	4.0	25	100	2.06	6.90
120400002699	AA240/25	240	25	4	80	4.0	25	100	2.15	7.30
120400002702	AA240/35	240	35	4	85	4.0	25	100	2.90	9.30
120400002706	AA320/20	320	20	6	100	4.0	25	100	2.86	8.90
120400002708	AA320/25	320	25	6	100	4.0	25	100	2.80	9.20
120400002712	AA320/35	320	35	6	100	4.0	25	100	4.35	13.30
120400002716	AA500/35	500	35	8	120	4.0	20	40	5.48	18.00

## KUNEX® corner joint tape for construction joints



KUNEX® PVC-P corner joint tape for sealing construction joints in offset concrete components.

**Joint tapes in accordance with DIN 18541-2 or company standard.**

- Material: soft, black PVC

### Corner joint tape in accordance with DIN

Item number	Type	Width/Height [mm]	Width of hollow body [mm]	Height of stop anchor [mm]	Height of profile [mm]	No. of stop anchors [mm]	Width of expansion element [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
120400002687	AA120/120EA DIN	120/120	–	–	25	4	–	20	60	2.00	11.30
120400002691	AA165/165EA DIN	165/165	–	–	25	6	–	20	60	2.84	16.20
<b>Surcharge for bitumen-compatible joint tapes + 50%</b>											

### Corner joint tape in accordance with company standard

Item number	Type	Width/Height [mm]	Width of hollow body [mm]	Height of stop anchor [mm]	Height of profile [mm]	No. of stop anchors [mm]	Width of expansion element [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
120400002685	AA120/120EA	120/120	–	–	25	4	–	20	60	2.00	7.80
120400002689	AA165/165EA	165/165	–	–	25	6	–	20	60	3.03	10.90

## KUNEX® internal expansion joint tape



KUNEX® internal PVC-P expansion joint tape for sealing expansion joints in concrete structures. The joint tape absorbs expansions and shear movements. Placing in center of the concrete cross-section.

**Joint tapes in accordance with DIN 18541 or company standard with general supervisory test certificate (abP).**

- Material: soft, black PVC

### Internal expansion joint tape in accordance with DIN

Item number	Type	Width [mm]	Width of hol. body [mm]	Height of an-chor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120500002737	D240 DIN	240	20	15	80	4.0	25	100	1.75	8.70
120500002743	D320 DIN	320	20	15	100	5.0	25	75	2.60	12.70
120500002748	D400 DIN	400	20	16	125	5.2	20	40	2.98	18.00
120500002752	D500 DIN	500	20	20	150	6.0	20	40	4.77	25.10
<b>Surcharge for bitumen-compatible joint tapes + 50%</b>										

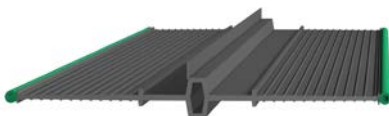
### Internal expansion joint tape in accordance with company standard with abP

Item number	Type	Width [mm]	Width of hol. body [mm]	Height of an-chor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120500002728	D150	150	10	15	55	3.5	25	150	1.12	5.00
120500002732	D190	190	10	15	70	3.5	25	125	1.25	4.90
120500002734	D190O	190	10	15	70	3.5	25	125	1.25	5.00
120500002735	D240	240	20	15	80	4.0	25	100	1.70	6.60
120500002739	D240O	240	20	15	80	4.0	25	100	1.70	6.90
120500002741	D320	320	20	15	100	5.0	25	75	2.80	10.20
120500002745	D320O	320	20	15	100	5.0	25	75	2.80	10.40
120500002746	D400	400	20	16	125	5.2	20	40	2.98	12.80
120500002750	D500	500	20	20	150	6.0	20	40	4.77	19.30

#### Key:

O = with single-sided eyelet

## KUNEX® internal expansion joint tape with injection hose



KUNEX® internal PVC-P expansion joint tape with injection hose for sealing expansion joints in concrete structures. The joint tape absorbs expansions and shear movements. Placing in center of the concrete cross-section.

**Joint tapes in accordance with DIN 18541-2 or company standard with general supervisory test certificate (abP).**

- Material: soft, black respectively green PVC
- Injection hose accessories on page 35 ff.
- Minimum purchase 500 rm.

### Internal expansion joint tape with injection hose in accordance with DIN 18541-2

Item number	Type	Width [mm]	Width of hol. body [mm]	Height of an-chor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120500020382	D240 C11 DIN	240	20	15	80	4.0	25	100	1.97	O/R
120500020385	D320 C11 DIN	320	20	15	100	5.0	25	75	2.82	O/R
120500020388	D500 C11 DIN	500	20	20	150	6.0	20	40	4.99	O/R
<b>Surcharge for bitumen-compatible joint tapes + 50%</b>										

### Internal expansion joint tape with injection hose in accordance with company standard with abP

Item number	Type	Width [mm]	Width of hol. body [mm]	Height of an-chor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120500020383	D240 C11	240	20	15	80	4.0	25	100	1.92	O/R
120500020389	D320 C11	320	20	15	100	5.0	25	75	3.02	O/R
120500020390	D500 C11	500	20	20	150	6.0	20	40	4.99	O/R

## KUNEX® external expansion joint tape



KUNEX® external PVC-P expansion joint tape for sealing expansion joints in concrete structures. The joint tape absorbs expansions and shear movements. Installed flush with the surface of the concrete component.

**Joint tapes in accordance with DIN 18541 or company standard with general supervisory test certificate (abP).**

- Material: soft, black PVC

### External expansion joint tape in accordance with DIN

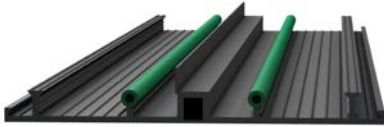
Item number	Type	Width [mm]	Width of hol. body [mm]	Height of prof. [mm]	No. of stop anchors	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. [m/roll]	unit [m/pal.]	Weight [kg/m]	Price per m [€]
120600002767	DA240/20 DIN	240	20	20	4	80	4.0	25	100	2.20	10.80
120600002771	DA240/35 DIN	240	20	35	4	84	4.0	25	100	2.92	15.40
120600016746	DA320/25 DIN	320	20	25	6	100	4.0	25	100	2.86	15.60
120600002777	DA320/35 DIN	320	20	35	6	100	4.0	25	100	4.18	18.40
120600002785	DA500/35 DIN	500	20	35	8	120	4.0	20	40	4.85	25.10

**Surcharge for bitumen-compatible joint tapes + 50%**

### External expansion joint tape in accordance with company standard with abP

Item number	Type	Width [mm]	Width of hol. body [mm]	Height of prof. [mm]	No. of stop anchors	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. [m/roll]	unit [m/pal.]	Weight [kg/m]	Price per m [€]
120600002764	DA190/17	190	20	17	4	80	3.7	25	125	1.70	6.40
120600002766	DA240/20	240	20	20	4	80	4.0	25	100	2.30	8.40
120600002769	DA240/35	240	20	35	4	84	4.0	25	100	3.30	12.20
120600002773	DA320/20	320	20	20	6	100	4.0	25	100	2.98	10.80
120600016745	DA320/25	320	20	25	6	100	4.0	25	100	3.18	11.80
120600002775	DA320/35	320	20	35	6	100	4.0	25	100	4.42	14.80
120600002783	DA500/35	500	20	35	8	120	4.0	20	40	5.34	19.90

## KUNEX® external expansion joint tape with injection hose



KUNEX® external PVC-P expansion joint tape with injection hose for sealing expansion joints in concrete structures. The joint tape absorbs expansions and shear movements. Installed flush with the surface of the concrete component.

**Joint tapes in accordance with DIN 18541-2 or company standard with general supervisory test certificate (abP).**

- Material: soft, black respectively green PVC
- Number and position of the injection hoses can be varied
- Injection hose accessories on page 37 ff.
- Minimum purchase 500 rm.

### External expansion joint tape with injection hose in accordance with DIN 18541-2

Item number	Type	Width [mm]	Width of hol. body [mm]	Height of prof. [mm]	No. of stop anchors	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120600020391	DA240/20 C11 DIN	240	20	20	4	80	4.0	25	100	2.42	O/R
120600020387	DA240/35 C11 DIN	240	20	35	4	84	4.0	25	100	3.14	O/R
120600020378	DA320/25 C11 DIN	320	20	25	6	100	4.0	25	100	3.08	O/R
120600020380	DA320/35 C11 DIN	320	20	35	6	100	4.0	25	100	4.40	O/R
120600020381	DA500/35 C11 DIN	500	20	35	8	120	4.0	20	40	5.07	O/R

**Surcharge for bitumen-compatible joint tapes + 50%**

### External expansion joint tape with injection hose in accordance with company standard with abP

Item number	Type	Width [mm]	Width of hol. body [mm]	Height of prof. [mm]	No. of stop anchors	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120600020376	DA240/20 C11	240	20	20	4	80	4.0	25	100	2.52	O/R
120600020377	DA240/35 C11	240	20	35	4	84	4.0	25	100	3.52	O/R
120600020379	DA320/25 C11	320	20	25	6	100	4.0	25	100	3.40	O/R
120600020386	DA320/35 C11	320	20	35	6	100	4.0	25	100	4.64	O/R
120600020384	DA500/35 C11	500	20	35	8	120	4.0	20	40	5.56	O/R

## KUNEX® corner joint tape for expansion joints



KUNEX® PVC-P corner joint tape for sealing expansion joints in offset concrete components.

**Joint tapes in accordance with DIN 18541-2 or company standard.**

- Material: soft, black PVC

### Corner joint tape in accordance with DIN

Item number	Type	Width/ Height [mm]	Width of hollow body [mm]	Height of stop anchor [mm]	Height of profile [mm]	No. of stop anchors [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120600002756	DA120/120EA DIN	120/120	20	25	–	4	50/50	4.0	20	60	2.40	13.40
120600002760	DA165/165EA DIN	165/165	20	25	–	6	50/50	4.0	20	60	3.10	18.00

**Surcharge for bitumen-compatible joint tapes + 50%**

### Corner joint tape in accordance with company standard

Item number	Type	Width/ Height [mm]	Width of hollow body [mm]	Height of stop anchor [mm]	Height of profile [mm]	No. of stop anchors [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120600002754	DA120/120EA	120/120	20	25	–	4	50/50	4.0	20	60	2.40	9.65
120600002758	DA165/165EA	165/165	20	25	–	6	50/50	4.0	20	60	3.25	14.40

## KUNEX® joint closing tape



KUNEX® PVC-P joint closing tapes for closing movement joints on their surface.

**Joint tapes in accordance with DIN 18541 or company standard with general supervisory test certificate (abP).**

- Material: soft, grey PVC

### Joint closing tape in accordance with DIN

Item number	Type	Height [mm]	Height of stop anchor [mm]	No. of stop anchors	Width [mm]	Joint width [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
121100002797	FA50/20 DIN	50	20	2	30	20	15	150	1.30	6.90
121100002800	FA50/30 DIN	50	30	2	30	20	15	150	1.22	8.70
121100002805	FA70/40 DIN	70	40	2	30	20	15	120	1.55	10.30
121100002809	FA90/20 DIN	90	20	4	30	20	15	90	2.40	12.30
121100002813	FA95/30 DIN	95	30	4	30	20	15	75	2.40	13.40
121100002793	FA130/20 DIN	130	20	6	30	20	15	60	2.88	17.20
<b>Surcharge for bitumen-compatible joint tapes + 50%</b>										

### Joint closing tape in accordance with company standard with abP

Item number	Type	Height [mm]	Height of stop anchor [mm]	No. of stop anchors	Width [mm]	Joint width [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
121100002798	FA50/20	50	20	2	30	20	15	150	1.30	5.30
121100002801	FA50/30	50	30	2	30	20	15	150	1.22	6.10
121100002806	FA70/40	70	40	2	30	20	15	120	1.55	7.10
121100002810	FA90/20	90	20	4	30	20	15	90	2.20	8.80
121100002814	FA95/30	95	30	4	30	20	15	75	2.40	9.90
121100002794	FA130/20	130	20	6	30	20	15	60	3.04	12.30

## KUNEX® joint end strip



KUNEX® PVC-U joint end strip for use as a suitable fitting aid for joint closing tapes.

- Material: hard, grey PVC
- Element length: 2500 mm

Item number	Type	Height [mm]	Cover width [mm]	Joint width [mm]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
121200002815	FL30/60	30	60	30	60	1.440	0.40	2.35

## KUNEX® joint sealing tape



KUNEX® PVC-P joint sealing tapes for closing movement joints on their surface.

- Material: soft, grey PVC

Item number	Type	Height [mm]	Cover width [mm]	Joint width [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
121300002820	FV40/42	40	42	11	25	100	0.51	3.00



## KUNEX® star tube with abP



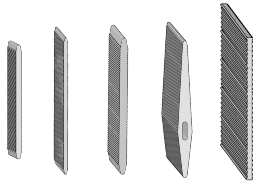
KUNEX® star tube for sealing a crack at a predetermined point.

**General supervisory test certificate awarded.**

- Casing with four stop anchors (soft PVC), dust grey
- Star tube core (hard PVC)
- Other lengths available on request

Item number	Type	Length [mm]	Diameter [mm]	For wall thickness [mm]	Total width [mm]	Packaging unit [pcs/pal.]	Weight [kg/m]	Price per m [€]
120300002901	Q60	2500	60	≤ 240	100	100	1.90	10.40
120300002902	Q60	3000	60	≤ 240	100	100	1.90	10.40
120300002903	Q60	4000	60	≤ 240	100	100	1.90	10.40
120300002905	Q88	2500	88	≤ 350	150	100	3.06	14.20
120300002906	Q88	3000	88	≤ 350	150	100	3.06	14.20
120300002907	Q88	4000	88	≤ 350	150	50	3.06	14.20
120300002898	Q175	2500	175	350-500	235	25	7.30	27.60
120300002899	Q175	3000	175	350-500	235	25	7.30	27.60
120300002900	Q175	4000	175	350-500	235	25	7.30	27.60

## KUNEX® SF

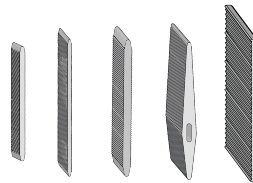


For sealing construction joints in reinforced concrete constructions.

- Soft, black PVC
- Anchoring depth 30 mm

Item number	Type	Width [mm]	Thickness [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
121900002848	SF80/5	80	5	50	1000	0.57	1.60
121900002843	SF100/5	100	5	50	1000	0.69	1.80
121900002844	SF120/4	120	4	50	1000	0.73	2.00
121900002845	SF120/6	120	6	50	1000	0.90	2.50
121900002846	SF120/12	120	12	50	500	1.50	4.20
121900002847	SF150/5	150	5	25	750	1.15	3.00

## KUNEX® ASF with abP



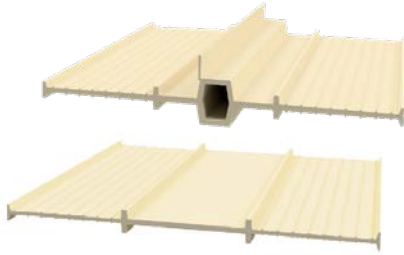
For sealing construction joints in reinforced concrete constructions.

**General supervisory test certificate awarded.**

- Soft, black PVC
- Anchoring depth 30 mm

Item number	Type	Width [mm]	Thickness [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
121400002727	ASF80/5	80	5	50	1000	0.54	1.70
121400002722	ASF100/5	100	5	50	1000	0.69	2.00
121400002723	ASF120/4	120	4	50	1000	0.72	2.20
121400002724	ASF120/6	120	6	50	1000	0.91	2.80
121400002725	ASF120/12	120	12	50	500	1.42	4.30
121400002726	ASF150/5	150	5	25	750	1.15	3.10

## KUNEX® TPE joint tapes



Kunex® TPE joint tapes made of thermoplastic elastomer for sealing construction and expansion joints in concrete constructions.

**Joint tapes in accordance with company standard with general supervisory test certificate (abP).**

- Material: thermoplastic elastomer
- Bitumen-compatible
- Free from PVC and halogen
- Fully recyclable
- Version with eyelets available on request, eyelet spacing 200 mm
- Other spring steel insert distances on request

### Internal construction joint tape

Item number	Type	Width [mm]	Width of hollow body [mm]	Height of profile [mm]	No. of stop anchors	Height of anchor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
123100019837	A240 TPE	240	–	–	–	14	80	3.5	25	500	0.94	10.70
123100019840	A320 TPE	320	–	–	–	14	100	4.5	25	400	1.43	14.60
123100019841	A500 TPE	500	–	–	–	20	150	6.0	20	40	2.70	33.00

### Internal construction joint tape with spring steel insert

Item number	Type	Width [mm]	Width of hollow body [mm]	Height of profile [mm]	No. of stop anchors	Height of anchor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
123200019838	A240SL7 TPE	240	–	–	–	15	85	4.0	25	500	1.25	14.30
123200019842	A320SL7 TPE	320	–	–	–	15	100	4.0	25	400	1.54	17.40

### Internal expansion joint tape

Item number	Type	Width [mm]	Width of hollow body [mm]	Height of profile [mm]	No. of stop anchors	Height of anchor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
123500019829	D240 TPE	240	20	–	–	15	80	4.0	25	100	1.30	14.30
123500019839	D320 TPE	320	20	–	–	15	100	5.0	25	75	1.81	21.00
123500019830	D500 TPE	500	20	–	–	20	150	6.0	20	40	3.45	41.40

### External expansion joint tape

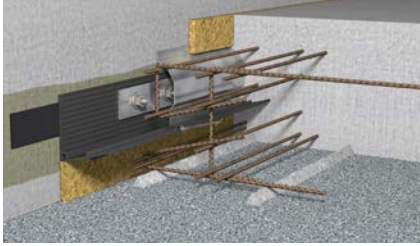
Item number	Type	Width [mm]	Width of hollow body [mm]	Height of profile [mm]	No. of stop anchors	Height of anchor rib [mm]	Width of exp. elem. [mm]	Thickn. of exp. elem. [mm]	Packaging unit [m/roll]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
123600019832	DA240/20 TPE	240	20	20	4	–	80	4.0	25	100	1.56	17.80
123600019833	DA240/35 TPE	240	20	35	4	–	84	4.0	25	100	2.38	25.20
123600019834	DA320/25 TPE	320	20	25	6	–	100	4.0	25	100	2.25	25.80
123600019835	DA320/35 TPE	320	20	35	6	–	100	4.0	25	100	3.16	30.40
123600019831	DA500/35 TPE	500	20	35	8	–	120	4.0	20	40	3.82	41.40

**Key:**

150 mm (SL7) = 7 x spring steel insert/m (example tape: A240 SL7)



## KUNEX® clamp joint



KUNEX® clamp joints are the ideal solution to the complex problems posed by a “new to old” building joint. The system consists of a primer, joint tapes according to DIN 18541-2, steel profiles, anchors, and a crude rubber strip. The function of the clamp joint is based on pressing the joint tape onto the existing stock using a clamp profile, as well as integrating the joint tape into the newly concreted components.

**General supervisory test certificate awarded.**

## KUNEX® clamp joint tape



KUNEX® PVC-P clamp joint tape for sealing joints of concrete components to be connected to existing structures.

**Joint tapes in accordance with DIN 18541-2.**

- Material: soft, black PVC

Item number	Type	Height/ Width [mm]	Width of hol. body [mm]	Height [mm]	No. of stop anchors	Width of exp. elem. [mm]	Pack. unit [m/roll]	Pack. unit [m/pal.]	Weight [kg/m]	Price per m [€]
120500002730	D180/170K DIN	180/170	25	26	–	95	20	40	3.10	19.20
120600002762	DA180/170K DIN	180/170	25	35	3	60	20	40	3.60	21.20
120600002779	DA320 KB DIN	320	20	4	–	100	20	40	1.99	13.10
120600002781	DA320 KE DIN	320	20	20	3	100	20	40	2.30	14.10
<b>Surcharge for bitumen-compatible joint tapes + 50%</b>										

## KUNEX® clamp joint tape accessories

### Primer

Item number	Type	Usage	Packaging unit [kg/bag]	Price per kg [€]
121000002816	Franko Pur*	ca. 0.3 - 0.5 kg/m <sup>2</sup>	1	47.90

### Shear connector

Item number	Type [mm]	Drill hole dia. [mm]	Packaging unit [pcs/box]	Weight [kg/pc.]	Price per pc. [€]
121000002913	M12	14	10	0.02	1.70
121000002914	M16*	18	10	0.04	2.10

### Anchor rods incl. nut and washer, galvanised or V4A (minimum quantity: 1 packaging unit)

Item number	Type [mm]	Construction	Packaging unit [pcs/box]	Weight [kg/pc.]	Price per pc. [€]
121000002629	M12/160	galvanised	10	0.13	1.70
121000002631	M16/190*	galvanised	10	0.29	3.10
121000002628	M12/160	V4A	10	0.14	5.10
121000002630	M16/190*	V4A	10	0.29	10.40

Concrete bolt incl. nut and washer, galvanised or V4A

Item number	Type [mm]	Construction	Packaging unit [pcs/box]	Weight [kg/pc.]	Price per pc. [€]
121000004053	TSM B14x165 M16x35*	galvanised	25	0.30	5,90
121000019294	TSM 10x140 M12x35*	V4A	25	0.12	10,50

Crude rubber strip, adhesive on one side

Item number	Type [mm]	Packaging unit [m/roll]	Weight [kg/m]	Price per m [€]
121000002832	80 x 4*	10	0.37	8.90

Clamping rail with slotted hole, galvanised or V4A

Item number	Type [mm]	Construction	Slotted hole		Packaging unit [pcs]	Weight [kg/m]	Price per m [€]
			Dia. [mm]	No./pc.			
121000002826	1450 x 80 x 8	galvanised	16/30	10	1	4.80	50.50
121000002824	1450 x 80 x 8*	galvanised	20/30	10	1	4.80	50.50
121000002825	1300 x 80 x 8	V4A	16/30	9	1	4.80	108.00
121000002823	1300 x 80 x 8*	V4A	20/30	9	1	4.80	108.00

Special profile, galvanised or V4A

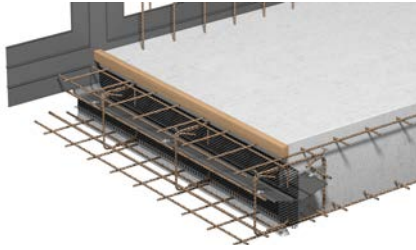
Item number	Type	Construction	Dimensions [mm]	Packaging unit [pcs]	Weight [kg/pc.]	Price per pc. [€]
121000002837	Inside corner	galvanised	80 x 10 x 80	1	1.20	82.80
121000002835	Outside corner	galvanised	80 x 10 x 200	1	2.88	120.70
121000002836	Inside corner	V4A	80 x 10 x 80	1	1.20	140.50
121000002834	Outside corner	V4A	80 x 10 x 200	1	2.88	194.80

Clamping protection profile made of galvanised sheet metal incl. attachment

Item number	Profile length [mm]	Packaging unit [pcs]	Weight [kg/pc.]	Price per pc. [€]
121000002829	2000	1	1.50	16.80

\* The version of the KUNEX® clamping structure in accordance with general supervisory test certificate P-5316/053/14 MPA-BS requires the use of the components marked with "\*".

## KUNEX® ABS construction joints

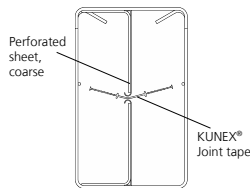


Shuttering element for installing internal KUNEX® joint tapes in water-impervious construction joints in reinforced concrete constructions. Version for coarse and interlocking joint construction in accordance with EC2.

**KUNEX® joint tape must be ordered separately.**

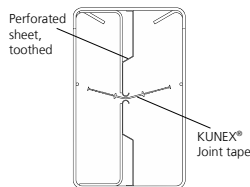
- Element length: 2400 mm
- Surcharge for short pieces + 10%
- Surcharge for eccentric joint guide + 10%
- Other dimensions and designs available on request

### KUNEX® ABS A-R / rough joint according to EC2



Item number	For KUNEX® type	Installation height [mm]	Weight [kg/m]	Price per m [€]
121700013926	A240	150–300	4.45	39.20
121700013927	A240	310–500	6.32	48.40
121700013928	A320	150–300	4.55	40.70
121700013929	A320	310–500	6.42	50.00

### KUNEX® ABS A-V / toothed joint according to EC2



Item number	For KUNEX® type	Installation height [mm]	Weight [kg/m]	Price per m [€]
121800013932	A240	150–300	4.65	47.90
121800013933	A240	310–500	6.82	57.90
121800013934	A320	150–300	4.75	49.50
121800013935	A320	310–500	6.95	59.40

## KUNEX® ABS expansion joints

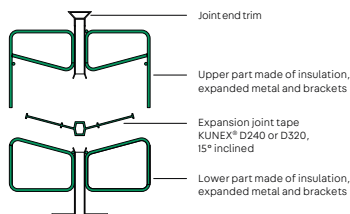


Shuttering element which consists of two parts for a simplified installation of internal KUNEX(R) joint tapes to seal expansion joints with a width of 20 mm in reinforced concrete. The elements are suited to fit the joint tapes KUNEX(R) D240 combined with a floor slab thickness from 240mm to 500 mm.

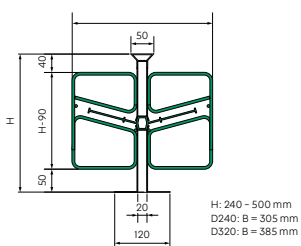
**KUNEX® joint tapes must be ordered separately.**

- Element length: 2400 mm
- Surcharge for short pieces + 10%
- Other dimensions and designs available on request

### KUNEX® ABS D



Item number	For KUNEX® type	Installation height [mm]	Weight [kg/m]	Price per m [€]
122200021901	D240	240–300	3.99	81.90
122200021902	D240	310–350	4.53	89.10
122200021903	D240	360–400	4.99	96.90
122200021904	D240	410–450	5.44	105.50
122200021905	D240	460–500	5.89	114.90



Item number	For KUNEX® type	Installation height [mm]	Weight [kg/m]	Price per m [€]
122200021906	D320	240–300	4.19	94.20
122200021907	D320	310–350	4.64	102.40
122200021908	D320	360–400	5.19	111.50
122200021909	D320	410–450	5.56	121.40
122200021910	D320	460–500	6.01	132.10

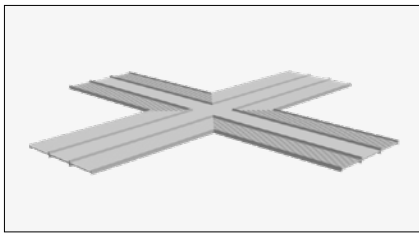
H: 240 – 500 mm  
D240: B = 305 mm  
D320: B = 385 mm

## KUNEX® welded structures

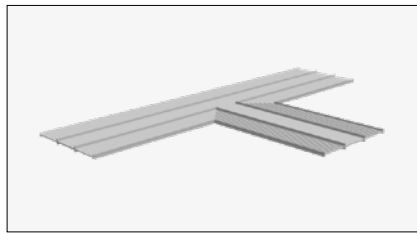
In addition to standard formed parts consisting of construction and expansion joint tapes, we also plan and produce custom solutions according to customer requests. We produce according to your drawings and specifications. Contact us for more information.

Item number	Type	Price [€]
122000002842	KUNEX® welded structure	On request
	Cutting costs per cut	16.50
	Small-order surcharge per cut (For orders under a standard packaging unit per item)	27.00

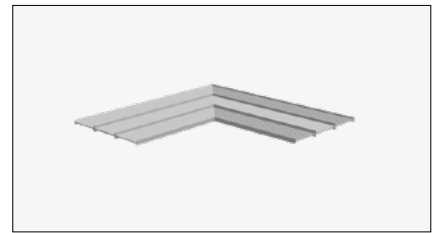
Form 1 – flat cross



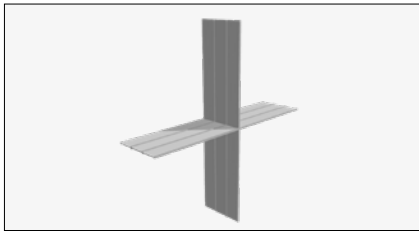
Form 2 – flat T



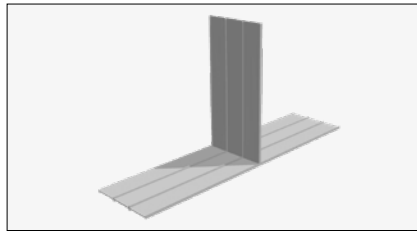
Form 3 – flat corner



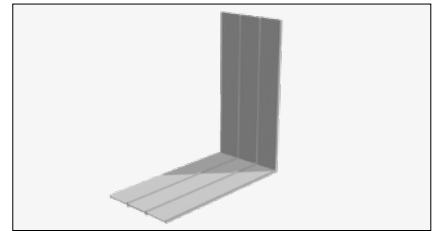
Form 4 – vertical cross



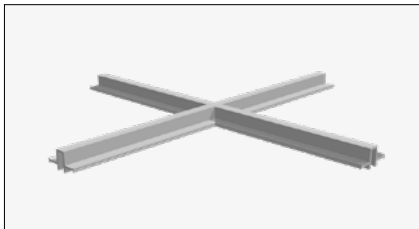
Form 5 – vertical T



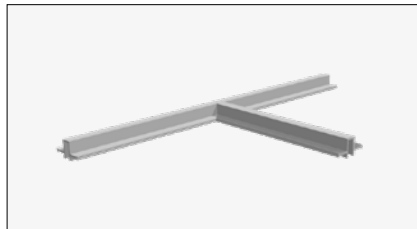
Form 6 – vertical corner



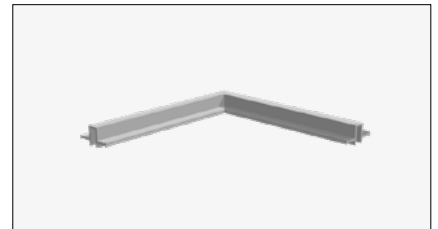
Form 7 – vertical cross



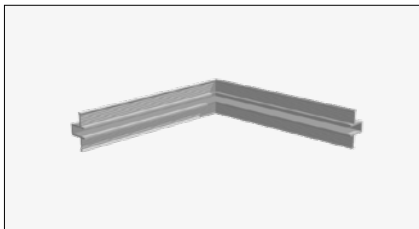
Form 8 – vertical T



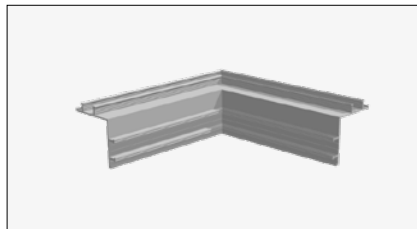
Form 9 – vertical corner



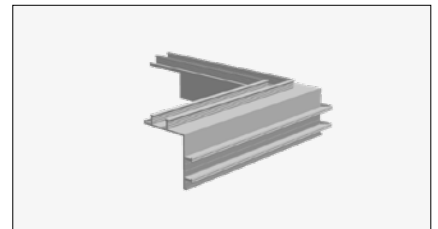
Form 10 – flat corner



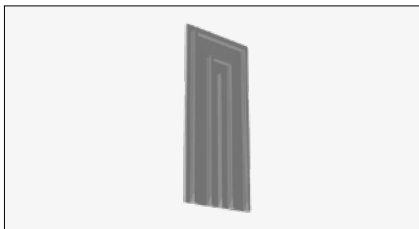
Form 11 – mirrored corner



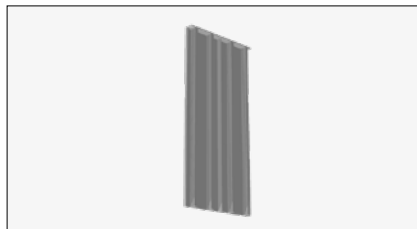
Form 12 – double-angled corner



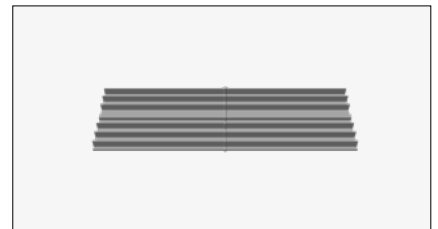
Form 13 – joint tape lock



Form 14 – joint tape closure



Form 15 – butt joint



## KUNEX® accessories

Accessories for KUNEX® joint tapes.

Item number	Type	Packaging unit [pcs]	Weight [kg/pc.]	Price per pc. [€]
121500002817	Joint tape clips*	200	0.01	0.30
121500002818	Quarter moon knife	1	0.09	49.90
121500002822	Hot air gun. 1600 watts/230 volts	1	1.30	510.20
121500004055	Tubular nozzle H, 5 mm	1	0.10	74.10
121500020357	Wide slot nozzle, 20 mm	1	0.30	74.10
121500002830	Omega stirrup	25	0.12	1.00

For joint tape connection to PENTAFLEX KB® 167, see page 9

\* Required joint tape clips: 8 pcs/m for attachment on both sides

## KUNEX® joint tape connector



Joint tape connector for connecting PVC-P or TPE construction joint tapes.

- Watertight up to 5.0 bar water pressure
- No welding needed
- Installed directly at laying
- Material: black steel, swelling gum

Item number	Type	Width of joint tape [mm]	Packaging unit [pcs]	Weight [kg/pc.]	Price per pc. [€]
121500020044	FBV 100	100	1	0.305	24.00
121500020043	FBV 150	150	1	0.455	27.10
121500020041	FBV 190	190	1	0.575	30.40
121500020045	FBV 240	240	1	0.725	33.70
121500020042	FBV 320	320	1	0.975	37.00

## KUNEX® welding tape

KUNEX® PVC-P welding tape (partially compatible with bitumen) for reinforcing the welded seam strength on formed parts.

Item number	Type	Width [mm]	Thickness [mm]	Packaging unit [m/roll]	Weight [kg/m]	Price per m [€]
121500002838	Welding tape	25	3	30	0.1	0.65
121500002839	Welding tape	30	2	30	0.1	0.65
121500002841	Bitumen-compatible welding tape	25	3	30	0.1	0.80
121500002840	Bitumen-compatible welding tape	30	2	30	0.1	0.80



## KUNEX® puddle flange MK



Puddle flange for sealing PVC, PP, and SML pipes.

- Installed before concrete pouring
- Incl. 2 clamps V2A
- Watertight up to 5.0 bar water pressure
- Material: TPE black

Item number	Type	Outer pipe diameter [mm]	Packaging unit [pcs/sack]	Weight [kg/pc.]	Price per pc. [€]
121600019859	MK 40	38 - 42	25	0.19	13.80
121600019865	MK 50	48 - 53	25	0.23	13.80
121600019860	MK 63	60 - 64	25	0.26	14.30
121600019861	MK 75	71 - 80	25	0.29	15.10
121600019862	MK 90	84 - 92	25	0.33	16.30
121600019767	MK 110	105 - 116	25	0.46	17.10
121600019771	MK 125	120 - 130	20	0.52	23.20
121600019772	MK 160	154 - 166	15	0.63	26.80
121600019773	MK 200	195 - 210	10	0.77	34.60

## KUNEX® puddle flange EF / ER



Puddle flange for sealing flat and round earthing straps.

- Installed before concrete pouring
- Incl. 2 clamps V2A
- Material: TPE black

Item number	Type	Outer pipe diameter [mm]	Packaging unit [pcs/sack]	Weight [kg/pc.]	Price per pc. [€]
121600019863	MK EF	30x3 - 3.5	25	0.156	16.30
121600019864	MK ER	8 - 10	25	0.127	16.30

## PLURAFLEX® C11



Injection hose for low-viscosity injection materials:  
PU resins, PU foams.

- **General supervisory test certificate awarded.**
- Dimensions: external 11 mm / internal 6 mm
- Filling quantity per m: hose approx. 0.20 kg + injection 1-3 kg (guidelines)
- Max. injection length = 10 m
- Sale and delivery only as a complete packaging unit

Item number	Dimensions [mm] external / internal	Packaging unit [roll/m]	Pallet [roll/m]	Weight [kg/roll]	Price per m [€]
130100005012	11 / 6	1 / 50	50 / 2500	5.50	3.15

## PLURAFLEX® P11



Injection hose for injection pastes, fine-grain cement, and low-viscosity injection material:  
PU resins, PU foams.

- **General supervisory test certificate awarded.**
- Dimensions: external 11 mm / internal 6 mm
- Filling quantity per m: hose approx. 0.20 kg + injection 1-3 kg (guidelines)
- Max. injection length = 10 m
- Sale and delivery only as a complete packaging unit

Item number	Dimensions [mm] external / internal	Packaging unit [roll/m]	Pallet [roll/m]	Weight [kg/roll]	Price per m [€]
130100005014	11 / 6	1 / 100	25 / 2500	11.00	7.25

## PLURAFLEX® P19



Injection hose for Portland cement, injection pastes, fine-grain cement, and low-viscosity injection material: PU resins, PU foams.

- **General supervisory test certificate awarded**
- Dimensions: external 19 mm / internal 11 mm
- Filling quantity per m: hose approx. 0.38 kg + injection 1-3 kg (guidelines)
- Max. injection length = 10 m
- Sale and delivery only as a complete packaging unit

Item number	Dimensions [mm] external / internal	Packaging unit [roll/m]	Pallet [roll/m]	Weight [kg/roll]	Price per m [€]
130100005015	19 / 11	1 / 100	10 / 1000	20.00	9.15

## PLURAFLEX® C11 active



Injection hose for low-viscosity injection material with PVC-based waterstop tape:  
PU resins, PU foams.

- Dimension of hose: external 11 mm / internal 6 mm
- Filling quantity per m: hose approx. 0.20 kg + injection 1-3 kg (guidelines)
- Supplied with injection hose and waterstop tape
- Max. injection length injection hose = 10 m
- Sale and delivery only as a complete packaging unit

Item number	Packaging unit hose [roll/m]	Packaging unit bund [roll/m]	Packaging unit total each [m]	Weight [kg/package unit]	Price per m [€]
130100005013	1 / 50	10 / 5	50	21.50	15.25

Cutting costs netto 8.00 €/cut

## PLURAFLEX® plastic clips



For fastening the PLURAFLEX® injection hoses and PLURAFLEX® C11 active to the concrete.

- Drill-hole: Ø 6 mm
- Requirement per running m of PLURAFLEX® injection hose: approx. 7 clips per m depending on the subgrade condition
- Clip C11 active without fasteners

Item number	For hose Ø [mm]	Packaging unit [pcs/bag]	Packaging unit [bag/box]	Weight [kg/box]	Price per 100 pcs [€]
130200005076	11	100	20 / 2000	3.50	33.60
130200005078	19	100	20 / 2000	3.50	38.85
130200005079	C11 active	100	20 / 2000	0.80	28.35

## PLURAFLEX® steel joint strip clips



For fastening the PLURAFLEX® injection hoses to the steel joint strip.

- The PLURAFLEX® injection hose is clamped to the steel joint strip using the steel joint strip clips.
- Requirement per m: approx. 7 clips

Item number	For hose Ø [mm]	Packaging unit [pcs/box]	Weight [kg/box]	Price per 100 pcs [€]
130200005061	11	100	1.50	39.00

## PLURAFLEX® joint tape clips



For fastening the PLURAFLEX® injection hoses to the joint tape.

The PLURAFLEX® injection hose is clamped to the joint tape using the joint tape clips.

- Requirement per m: approx. 7 clips

Item number	for hose Ø [mm]	Packaging unit [pcs/box]	Weight [kg/box]	Price per 100 pcs [€]
130200005060	11	100	1.50	72.50

Surcharge for orders smaller than a complete packaging unit: 10%

## PLURAFLEX® spider



Reinforcement mounting for attachment of 2 piece PLURAFLEX® packer.

Item number	Packaging unit [pcs/box]	Weight [kg/box]	Price per pc. [€]
130200005047	25	3.00	4.40

## PLURAFLEX® nail packer 2-part



Packer for mounting the injection hose on spider.

Item number	Packaging unit [pcs/box]	Weight [kg/box]	Price per pc. [€]
130200005090	25	2.00	3.15

## PLURAFLEX® hose clip



For fastening the nail packer and injection nozzle to the hoses.

Item number	Packaging unit [pcs/box]	Weight [kg/box]	Price per 100 pcs [€]
130100005033	100	1.00	206.20

## PLURAFLEX® foam rubber



Foam rubber adhesive on one site for gluing onto PLURAFLEX® nail packer.

Item number	Type	Colour/Thickness [mm]	Packaging unit [pcs/box]	Weight [kg/box]	Price per 100 pcs [€]
130200005082	MR 10	red/10	50	0.50	133.80
130200005084	MW 10	white/10	50	0.50	133.80

## PLURAFLEX® injection nipple M8 for nail packer



Injection nipple for connection to the PLURAFLEX® nail packer depending on choice of injection material.

Item number	Type	For injection material	Packaging unit [pcs/box]	Weight [kg/box]	Price per 100 pcs [€]
130200005072	IVH	Resin	100	1.00	55.80
130200005073	IVZ	Cement	100	1.00	55.80

Surcharge for orders smaller than a complete packaging unit: 10%

## PLURAFLEX® storing box



For storing of the charging and venting hoses in the concrete building elements.

Item number	Length [mm]	Width [mm]	Height [mm]	Packaging unit [pcs/box]	Weight [kg/box]	Price per pc. [€]
130200005099	100	100	50	10	6.50	10.10

## PLURAFLEX® charging/venting hose



Fabric-armoured PVC hose for charging respectively venting of the injection hoses.

- Dimensions: external 11 mm / internal 7 mm
- Max. pressure loading: 120 bar

Item number	Colour	Dimensions [mm] external/internal	Packaging unit [roll/m]	Pal. [roll/m]	Weight [kg/roll]	Price per m [€]
130200005051	red	11 / 7	1 / 50	16 / 800	6.50	2.20
130200005052	white	11 / 7	1 / 50	16 / 800	6.50	2.20

## PLURAFLEX® plugs yellow



For closing off the charging and venting hoses.

Item number	Packaging unit [pcs/bag]	Box [bag/pcs]	Weight [kg/box]	Price per 100 pcs [€]
130200005048	100	10 / 1000	1.00	16.75

## PLURAFLEX® coupling C11



For connection of PLURAFLEX® C11 with the charging and venting hoses.

Item number	Packaging unit [pcs/box]	Weight [kg/box]	Price per pc. [€]
130200005080	100	1.00	1.20

Surcharge for orders smaller than a complete packaging unit: 10%

## PLURAFLEX® sleeting



Plastic hose for connecting PLURAFLEX® P11 to the charging and venting hose (PVC red/white).

- Dimensions: external 6 mm / internal 4 mm

Item number	Dimensions [mm] external/internal	Packaging unit [roll/m]	Pal. [roll/m]	Weight [kg/roll]	Price per m [€]
130200005049	6 / 4	1 / 50	16 / 800	2.00	2.50

## PLURAFLEX® heat-shrink tube



Heat-shrink tube for safeguarding the connection of PLURAFLEX® P11 and P19 with the charging and venting hose (PVC red/white).

Item number	Type	Ø [mm]	Packaging unit [roll/m]	Pal. [roll/m]	Weight [kg/roll]	Price per m [€]
130200005063	HSS 11	12	1 / 50	16 / 800	2.00	4.70
130200005064	HSS 19	21	1 / 30	10 / 300	2.00	6.20

## PLURAFLEX® injection nozzle



For connection to the charging and venting hoses.

Item number	Packaging unit [pcs]	Weight [kg/box]	Price per pc. [€]
130200005095	100	1.00	2.10

## PLURAFLEX® injection nipple M6 for injection nozzle



Injection nipple for connection to the PLURAFLEX® injection nozzle depending on the choice of injection material.

Item number	Type	For injection material	Packaging unit [pcs/box]	Weight [kg/box]	Price per 100 pcs [€]
130200005067	IVH	Resin	100	1.00	55.80
130200005068	IVZ	Cement	100	1.00	55.80

Surcharge for orders smaller than a complete packaging unit: 10%

## PLURAFLEX® Emergency set C11

NEU



Service package consisting of:

- PLURAFLEX® C11 Injection hose 50 m
- Plastic clips 200 pcs., nail packer 12 pcs., hose clip 36 pcs., coupling C11 12 pcs, plug yellow 12 pcs.
- Charging hose red 6 x 40 cm, venting hose white 6 x 40 cm
- **On request delivery within 24 hrs. (plus express surcharge)**

Item number	For injection hose type	Packaging unit [bag/box]	Weight [kg/box]	Price per set [€]
130200024504	C11	1	13,69	420,00

Surcharge for orders smaller than a complete packaging unit: 10%

## PLURAFLEX® set S C11/P11



Service pack:

Set with packer and spider for PLURAFLEX® C11 and P11.

Content:

- 1x spider II, 2x 2-part packer, 2x hose clip, 1x foam rubber red / 10 mm,
- 1x foam rubber grey / 10 mm

Item number	For hose type	Packaging unit [box]	Weight [kg/box]	Price per set [€]
130200005041	11	1	1.00	28,30

## PLURAFLEX® set V C11



Service pack:

Set with PVC hose and protective box for PLURAFLEX® C11.

Content:

- 1x protective box, 1x charging hose red / 500 mm, 1x venting hose white / 500 mm,
- 2x coupling C11, 2x plug yellow

Item number	For hose type	Packaging unit [box]	Weight [kg/box]	Price per set [€]
130200005043	C11	1	1.00	28,30

## PLURAFLEX® set V P11



Service pack:

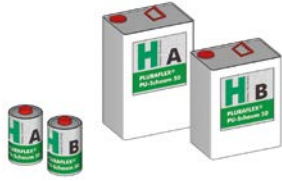
Set with PVC hose and protective box for PLURAFLEX® P11.

Content:

- 1x protective box, 1x charging hose red / 500 mm, 1x venting hose white / 500 mm,
- 2x protective sleeve / 80 mm, 2x heat-shrink tube HSS 11 / 100 mm, 2x plug yellow,
- 1x superglue

Item number	For hose type	Packaging unit [box]	Weight [kg/box]	Price per set [€]
130200005044	P11	1	1.00	30,90

## PLURAFLEX® PUR-Injection foam resin 50 / WEBAC 150



Humidity-reactive, 2-component injection foam resin for closing off cracks and leaks which channel water under pressure. Rapid foaming.

- Suitable for use in drinking water areas (KTW = plastics and drinking water)
- Combination container: abP according to Rili-SIB (concrete guidelines) and ZTV-ING (RISS) registered in the BAST list

Item number	Packaging unit	Comp. A [kg]	Comp. B [kg]	Total weight [kg]	Price per kg [€]
130300005024	Can	0.45	0.55	1.00	34.30
130300019087	Canister	5.00	6.20	11.20	27.80
130300005025	Canister	10.50	13.00	23.50	25.80

## PLURAFLEX® PUR-Injection resin 05 / WEBAC 1405



Highly active, 2-component injection resin for sealing cracks by pressurised injection. Limited elastic connection of cracks. Minimum foaming tendency in humid conditions. Pre-injection with PLURAFLEX® PU foam 50 for pressurised, flowing water.

- Suitable for use in drinking water areas (KTW). Meets the requirements of DIN EN 1504-5 (conformity verification procedure 2+)
- Combination container: abP according to Rili-SIB (concrete guidelines) and ZTV-ING (RISS) registered in the BAST list

Item number	Packaging unit	Comp. A [kg]	Comp. B [kg]	Total weight [kg]	Price per kg [€]
130300005019	Can	0.65	0.36	1.00	33.40
130300005023	Canister	5.00	2.75	7.75	24.70
130300005020	Canister	10.00	5.50	15.50	23.00

## PLURAFLEX® EP-Injection resin / WEBAC 4110



2-component EP-injection resin. For force-fit connections.

- Combination container: abP according to Rili-SIB (concrete guidelines) and TZV-ING (RISS) registered in the BAST list
- Externally monitored; meets the requirements of DIN EN 1504-5 (conformity verification procedure 2+)

Item number	Packaging unit	Comp. A [kg]	Comp. B [kg]	Total weight [kg]	Price per kg [€]
130300005053	Can	0.71	0.29	1.00	37.30
130300005054	Canister	1.00	0.40	1.40	30.70
130300019547	Canister	5.00	2.00	7.00	26.20

## PLURAFLEX® injection glue 2K



High-quality, 2-component injection glue with high flowability even in fine cracks. The PLURAFLEX® injection glue 2K quickly reaches high strength and, after hardening, is water-impermeable as well as water-, weather- and frost-resistant.

Item number	Packaging unit	Powder comp. A [kg]	Liquid comp. B [kg]	Total weight [kg]	Packaging unit [bucket/pal.]	Price per kg [€]
130200005069	Bucket	6.50	3.50	10.00	24	15.40



## SWELLFLEX® BS



Bentonite swelling tape.

- **General supervisory test certificate awarded.**
- Sales and delivery as complete units (full cardboard boxes)

Item number	Type	Width [mm]	Height [mm]	Packaging unit [m/roll]	Packaging unit [m/box]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
140100005101	BS 16/21	21	16	5	20	720	0.60	3.90
140100005102	BS 18/24	24	18	5	20	720	0.90	4.60

## SWELLFLEX® BT



Bentonite swelling tape with rain protection coating.

- **General supervisory test certificate awarded.**
- Sales and delivery as complete units (full cardboard boxes)

Item number	Type	Width [mm]	Height [mm]	Packaging unit [m/roll]	Packaging unit [m/box]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
140100005103	BT 16/21	21	16	5	20	720	0.60	6.50
140100005104	BT 18/24	24	18	5	20	720	0.90	7.10

## SWELLFLEX® RB



Rubber swelling tape.

- **General supervisory test certificate awarded.**
- Sales and delivery as complete units (full cardboard boxes)

Item number	Type	Width [mm]	Height [mm]	Packaging unit [m/roll]	Packaging unit [m/box]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
140100005105	RB 18/7	18	7	12	72	3600	0.19	6.90
140100005107	RB 23/15	23	15	6	30	540	0.22	13.80
140100005108	RB round	Ø 23	Ø 23	5	20	360	0.28	17.30

## SWELLFLEX® mounting rail metal



For fastening the SWELLFLEX® bentonite swelling tape to the concrete. The mounting rail is fastened using conventional fixing materials.

- Requirement per running m of SWELLFLEX® mounting rail approx. 5 nails

Display with waterstop tape

Item number	Length [mm]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Weight [kg/m]	Price per m [€]
140200005113	1000	30	360	0.50	1.40

## SWELLFLEX® assembly adhesive & sealant



For fastening the SWELLFLEX® bentonite swelling and rubber swelling tapes.

- Yields for approx. 10 m depending on the substrate

Item number	Packaging unit [ml/pcs]	Packaging unit [pcs/box]	Weight [kg/pc]	Price per pc. [€]
140200018575	290	20	0.53	12.80

## SECUFLEX®



The SECUFLEX® System is a pre-applied fully bonded waterproofing system consisting of an HDPE membrane and various sealing tapes. It is used with impermeable concrete in combination with a joint sealing system (e.g. PENTAFLEX®) against pressurized water. A granular adhesive layer ensures a secure connection between the SECUFLEX® membrane and concrete to avoid lateral water migration. So, unplanned cracks that develop in the impermeable concrete structure are reliably bridged and sealed against water penetration.

**General supervisory test certificate (abP) awarded.**

## SECUFLEX® SMT



Pre-applied HDPE-membrane which fully bonds to fresh concrete with a heavy adherent adhesive layer and a special granulate.

- With 75 mm adhesive strips
- Highly flexible, crack-bridging and backstop-safe
- Quick, easy and safe installation of the fresh concrete composite membrane
- Tested system with excellent adhesion strengths

Item number	Type	Length [m]	Width [mm]	Thickness [mm]	Packaging unit [m <sup>2</sup> /roll]	Packaging unit [rolls/pal.]	Weight [kg/m <sup>2</sup> ]	Price per m <sup>2</sup> [€]
160100019586	SMT 1212	20	1200	1.2	24	12	1.70	26.20

## SECUFLEX® ST



HDPE sealing strip with a self-adhesive layer without granulate to laminate construction joints subsequently.

Item number	Type	Length [m]	Width [mm]	Thickness [mm]	Packaging unit [m <sup>2</sup> /roll]	Packaging unit [rolls/pal.]	Weight [kg/m <sup>2</sup> ]	Price per m <sup>2</sup> [€]
160100019867	ST 600	20	600	1.2	12	24	0.85	31.80
160100022299	ST 1200	20	1200	1.2	24	12	0.85	31.80

## SECUFLEX® MT



Single-sided self-adhesive sealing tape with laminated HDPE film for sealing at the connections of butt joints on the upstream face.

Item number	Type	Length [m]	Width [mm]	Thickness [mm]	Packaging unit [rolls/box]	Weight [kg/m]	Price per m [€]
160100019820	MT 150	50	150	0.3	1	0.06	6.20

## SECUFLEX® PT



Single-sided self-adhesive sealing tape with special granulate for the concrete face, e.g. to protect butt joints.

Item number	Type	Length [m]	Width [mm]	Thickness [mm]	Packaging unit [rolls/box]	Weight [kg/m]	Price per m [€]
160100019825	PT 150	20	150	1.0	1	0.20	5.50

## SECUFLEX® DT



Double-sided self-adhesive sealing tape for bonding of membrane to membrane (as replacement or in addition to existing tapes).

Item number	Type	Length [m]	Width [mm]	Thickness [mm]	Packaging unit [rolls/box]	Weight [kg/m]	Price per m [€]
160100019819	DT 75	30	75	1.0	4	0.12	2.80

## SECUFLEX® LP 1K



Moisture curing liquid membrane based on silicone-modified polyester (SMP) in addition to the SECUFLEX® system.

Item number	Type	Packaging unit [buckets/pal.]	Weight [kg/bucket]	Price per kg [€]
16010019821	LP 1K	33	14.00	17.30

## SECUFLEX® PR



Roller for pressing the overlapping and joint areas together.

PR 90

Item number	Type	Width [mm]	Packaging unit [pc./box]	Weight [kg/pc.]	Price per pc. [€]
160100019822	PR 50	50	1.0	0.80	51.90
160100019823	PR 100	100	1.0	1.70	85.80
160100019824	PR 120 L	120	1.0	3.20	258.10



# Thermal insulation

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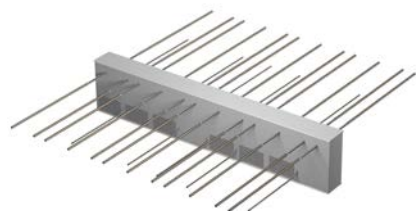
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## ISOPRO® type IP



Exemplary illustration

Thermally insulated cantilever slab connection for freely projecting reinforced concrete components. Corrosion protection as a result of stainless steel rebar. REI 120 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

- Element length: IP 10 – IP 75 Q10: 1000 mm; IP 90 Q10 – IP 100 Q10: 500 + 500 mm
- Compression bearings made of special concrete
- With concrete covering cv 50: minimum height of 180 mm required
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$
- Two-part version available for installation in a prefabricated parts factory

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
210100012312	IP 10	160–250	7.34	171.00
210100012316	IP 15	160–250	8.44	194.00
210100012322	IP 20	160–250	8.89	216.90
210100012330	IP 25	160–250	9.60	258.30
210100018963	IP 35	160–250	11.49	298.80
210100012358	IP 45	160–250	14.26	328.50
210100012366	IP 50	160–250	15.70	364.50
210100012379	IP 55	160–250	19.92	404.60
210100018954	IP 65	160–250	21.09	429.40
210100018955	IP 75 Q10	170–250	22.26	519.30
210100018956	IP 90 Q10	170–250	24.21	579.60
210100018957	IP 100 Q10	170–250	25.38	636.30

Prices apply to concrete covering cv 35 and cv 50 mm

Additional products for type IP 10 – IP 65	Height h [mm]	Construction	Surcharge per m [€]
Q8	160–250	With shear force reinforcement	40.00
Q8X	160–250	With shear force reinforcement on both sides	66.00
Q10	170–250	With shear force reinforcement	53.00
Q10X	170–250	With shear force reinforcement on both sides	75.00
Q12	180–250	With shear force reinforcement	66.00

Additional products for type IP 75 Q10 – IP 100 Q10	Height h [mm]	Construction	Surcharge per m [€]
Q10X	180–250	With shear force reinforcement on both sides	33.00
Q12	180–250	With shear force reinforcement	13.00

Additional products for IP	Construction	Surcharge per m [€]
REI 120	Fireproof panels pre-assembled	0.00

## ISOPRO® type IPT



Exemplary illustration

Thermally insulated cantilever slab connection for freely projecting reinforced concrete components. Corrosion protection as a result of stainless steel rebar, with suspended reinforcement integrated into the balcony. R 90 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

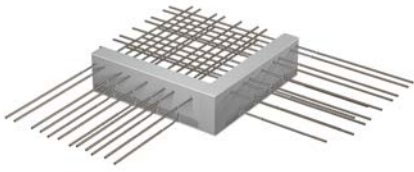
- Element length: 500 + 500 mm
- Steel pressure plane
- With concrete covering cv 50: minimum height of 200 mm required
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K
- Two-part version available for installation in a prefabricated parts factory

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
210200014990	IPT 110 Q10	180–250	44.00	756.00
210200014991	IPT 110 Q12	180–250	45.50	769.00
210200014992	IPT 110 Q14	180–250	49.10	810.00
210200015002	IPT 150 Q10	180–250	57.40	950.40
210200015008	IPT 150 Q12	180–250	59.70	963.40
210200015012	IPT 150 Q14	190–250	62.90	1.006.20

Prices apply to concrete covering cv 35 and cv 50 mm

Additional products for type IPT	Construction	Surcharge per m [€]
R 90	Fireproof panels pre-assembled	0.00

## ISOPRO® type IP / IPT corner + L/R version



Exemplary illustration

Thermally insulated slab connection for joining freely projecting reinforced concrete components for outside corners. Corrosion protection as a result of stainless steel rebar, with suspended reinforcement integrated into the balcony. REI 120/R 90 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

- The prices are for one corner element consisting of a left and right part and a corner insulation body
- The left sub-components IP(T) EL and right sub-components IP(T) ER can also be supplied individually
- Pressure plane type IP corner with concrete compression bearings
- Pressure plane type IPT corner out of steel
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210300012399	IP corner 20	500 x 500*	180–250	23.79	474.30
210300012401	IP corner 30	620 x 620**	180–250	38.30	798.30
210300011842	IPT corner 50	620 x 620**	180–250	48.36	999.00

Prices apply to concrete covering - first layer cv 35 mm and second layer cv 50 mm

\* l = 500 mm + 80 mm corner insulation body

\*\* l = 620 mm + 80 mm corner insulation body

Additional products for type IP corner/ IPT corner	Construction	Surcharge per pc. [€]
REI 120 / R 90	Fireproof panels pre-assembled	0.00

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210300018948	IP EL 20	500	180–250	11.89	237.15
210300018949	IP EL 30	620	180–250	19.10	399.15
210300018950	IPT EL 50	620	180–250	24.10	499.50

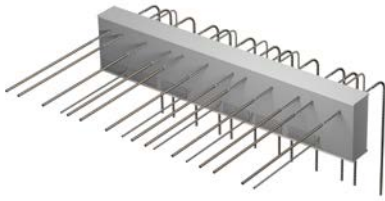
Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210300018951	IP ER 20	500	180–250	11.89	237.15
210300018952	IP ER 30	620	180–250	19.10	399.15
210300018953	IPT ER 50	620	180–250	24.10	499.50

Prices apply to concrete covering cv 35 and 50 mm

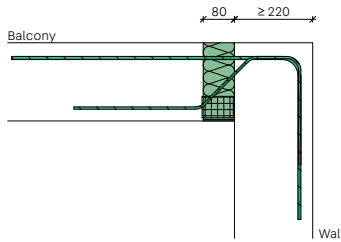
Additional products for type IP/IPT corner EL/ER	Construction	Surcharge per pc. [€]
REI 120 / R 90	Fireproof panels pre-assembled	0.00



## ISOPRO® type IP Var. I, Var. II



Exemplary illustration



Thermally insulated cantilever slab connection for freely projecting reinforced concrete components with connection to reinforced concrete walls.

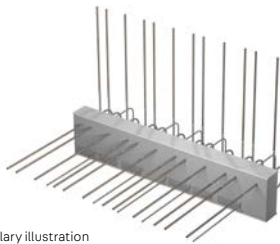
The reinforcement rods are anchored downwards in the reinforced concrete wall for var. I and upwards for var. II. REI 120 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

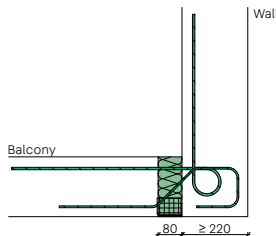
- Element length: 1000 mm
- Standard: wall thickness  $\geq 220$  mm
- Special elements available on request, stating the wall thickness

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
210100012322	IP 20 Var. I	160–250	8.89	216.90
210100012330	IP 25 Var. I	160–250	9.60	258.30
210100012334	IP 30 Var. I	160–250	11.49	329.00
210100012358	IP 45 Var. I	160–250	14.26	328.50
210100012366	IP 50 Var. I	160–250	15.70	364.50
210100012379	IP 55 Var. I	160–250	19.92	404.60
210100018964	IP 65 Var. I	160–250	21.09	536.00
210100020365	IP 75 Var. I	160–250	22.26	587.30

Prices apply to concrete covering cv 35 and cv 50 mm



Exemplary illustration



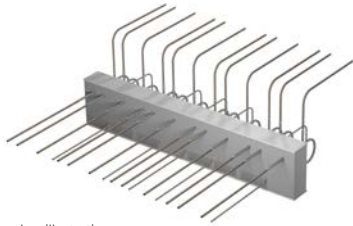
- Element length: 1000 mm
- Standard: wall thickness  $\geq 220$  mm
- Special elements available on request, stating the wall thickness

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
210100012322	IP 20 Var. II	160–250	9.66	216.90
210100012330	IP 25 Var. II	160–250	10.44	258.30
210100012334	IP 30 Var. II	160–250	12.50	329.00
210100012358	IP 45 Var. II	160–250	15.50	328.50
210100012366	IP 50 Var. II	160–250	17.07	364.50
210100012379	IP 55 Var. II	160–250	21.65	404.60
210100018964	IP 65 Var. II	160–250	22.85	536.00
210100020365	IP 75 Var. II	160–250	24.20	587.30

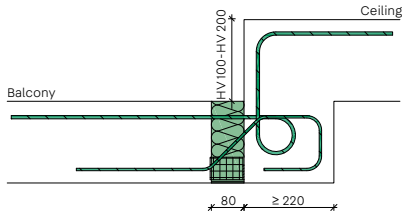
Prices apply to concrete covering cv 35 and cv 50 mm

Additional products for type IP variants	Height h [mm]	Construction	Surcharge per m [€]
Q8	160–250	With shear force reinforcement	31.00
REI 120		Fireproof panels pre-assembled	0.00

## ISOPRO® type IP Var. III HV, Var. III UV



Exemplary illustration



Thermally insulated cantilever slab connection for freely projecting reinforced concrete components with connection to reinforced concrete ceilings with offset heights.

The reinforced concrete ceiling is above the balcony slab to be connected for var. III HV and below this slab for var. III UV. REI 120 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

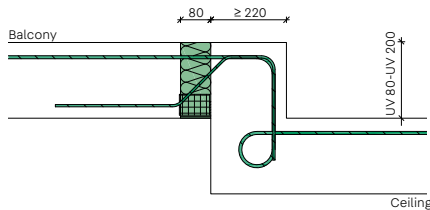
- Element length: 1000 mm
- Standard: height offset HV10 (100 mm), HV15 (150 mm), HV20 (200 mm)
- Special elements available on request, stating the height offset and beam width

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
210100012322	IP 20 Var. III HV	160–250	9.96	216.90
210100012330	IP 25 Var. III HV	160–250	10.75	258.30
210100012334	IP 30 Var. III HV	160–250	12.87	329.00
210100012358	IP 45 Var. III HV	160–250	16.00	328.50
210100012366	IP 50 Var. III HV	160–250	17.58	364.50
210100012379	IP 55 Var. III HV	160–250	22.30	404.60
210100018964	IP 65 Var. III HV	160–250	23.55	536.00
210100020365	IP 75 Var. III HV	160–250	24.95	587.30

Prices apply to concrete covering cv 35 and cv 50 mm



Exemplary illustration



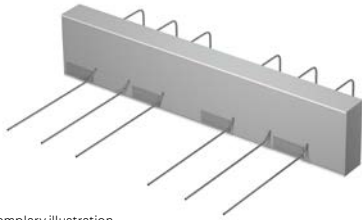
- Element length: 1000 mm
- Standard: height offset UV10 (100 mm), UV15 (150 mm), UV20 (200 mm)
- Special elements available on request, stating the height offset and beam width

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
210100012322	IP 20 Var. III UV	160–250	10.20	216.90
210100012330	IP 25 Var. III UV	160–250	11.00	258.30
210100012334	IP 30 Var. III UV	160–250	13.18	329.00
210100012358	IP 45 Var. III UV	160–250	16.40	328.50
210100012366	IP 50 Var. III UV	160–250	18.01	364.50
210100012379	IP 55 Var. III UV	160–250	22.85	404.60
210100018964	IP 65 Var. III UV	160–250	24.15	536.00
210100020365	IP 75 Var. III UV	160–250	25.55	587.30

Prices apply to concrete covering cv 35 and cv 50 mm

Additional products for type IP variants	Height h [mm]	Construction	Surcharge per m [€]
Q8	160–250	With shear force reinforcement	31.00
REI 120		Fireproof panels pre-assembled	0.00

## ISOPRO® type IPQ



Exemplary illustration

Thermally insulated slab connection for transmitting shearing forces in supported reinforced concrete components. Corrosion protection as a result of stainless steel rebar. REI 120 version available.

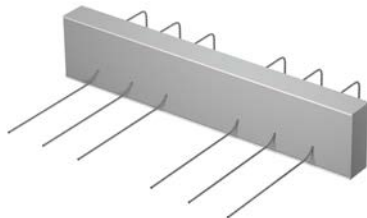
**When ordering, please specify the element height (h).**

- Element length: 1000 mm
- Pressure plane with concrete compression bearings
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Transverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
210400012403	IPQ 10	Bent	160–250	5.43	112.50
210400012414	IPQ 20	Bent	160–250	5.61	121.50
210400012421	IPQ 30	Bent	160–250	5.79	132.30
210400012427	IPQ 40	Bent	160–250	6.15	150.30
210400012433	IPQ 50	Bent	160–250	6.50	169.20
210400012442	IPQ 70	Straight	160–250	7.10	188.10
210400012445	IPQ 80	Straight	160–250	7.50	196.70
210400015016	IPQ 85	Straight	160–250	8.50	205.20
210400012448	IPQ 90	Straight	160–250	9.30	223.20
210400017123	IPQ 100	Straight	170–250	11.20	241.20
210400012411	IPQ 110	Straight	170–250	12.50	259.20
210400015018	IPQ 120	Straight	170–250	13.80	347.40

Additional products for type IPQ	Construction	Surcharge per m [€]
REI 120	Fireproof panels pre-assembled	0.00

## ISOPRO® type IPZQ



Exemplary illustration

Thermally insulated slab connection for transmitting shearing forces in supported reinforced concrete components. Version without compression bearings for restraint-free connection. Corrosion protection as a result of stainless steel rebar. REI 120 version available.

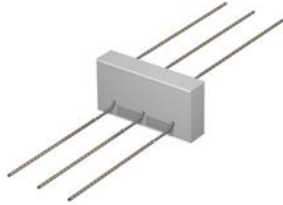
**When ordering, please specify the element height (h).**

- Element length: 1000 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Transverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
211900015020	IPZQ 10	Bent	160–250	1.30	107.50
211900015022	IPZQ 20	Bent	160–250	1.50	116.50
211900015024	IPZQ 30	Bent	160–250	1.70	127.30
211900015026	IPZQ 40	Bent	160–250	2.00	145.30
211900015028	IPZQ 50	Bent	160–250	2.40	164.20
211900015030	IPZQ 70	Straight	160–250	3.10	183.10
211900015032	IPZQ 80	Straight	160–250	3.50	191.70
211900015034	IPZQ 85	Straight	160–250	4.50	200.20
211900015036	IPZQ 90	Straight	160–250	5.30	218.20
211900015038	IPZQ 100	Straight	170–250	7.20	236.20
211900015040	IPZQ 110	Straight	170–250	8.50	254.20
211900015042	IPZQ 120	Straight	170–250	9.80	342.40

Additional products for type IPZQ	Construction	Surcharge per m [€]
REI 120	Fireproof panels pre-assembled	0.00

## ISOPRO® type IPQS



Exemplary illustration

Thermally insulated slab connection for transmitting shearing forces in supported reinforced concrete components where forces are transmitted at certain points. Corrosion protection as a result of stainless steel rebar. REI 120/R 90 version available.

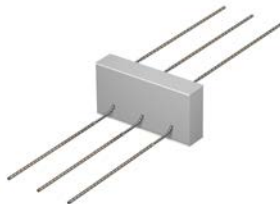
**When ordering, please specify the element height (h).**

- Type IPQS pressure plane with concrete compression bearings
- Type IPTQS pressure plane made of steel
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210600015044	IPQS 5	400	160–250	2.80	71.10
210600012481	IPQS 10	300	160–250	1.96	94.50
210600015046	IPQS 15	500	160–250	3.00	117.90
210600012484	IPQS 20	400	160–250	3.50	141.30
210600012487	IPQS 30	500	160–250	4.64	174.60
210600012489	IPQS 40	300	170–250	2.76	146.70
210600012492	IPQS 50	400	170–250	4.37	168.30
210600015050	IPQS 55	500	170–250	5.50	176.40
210600015052	IPTQS 60	300	180–250	4.30	184.50
210600012498	IPQS 70	400	180–250	6.20	241.20
210600018551	IPQS 75	500	180–250	8.80	220.50
210600015054	IPTQS 80	300	190–250	6.50	199.80
210600015056	IPTQS 90	400	190–250	7.20	262.80

Additional products for type IPQS/IPTQS	Construction	Surcharge per pc. [€]
REI 120 / R 90	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPQZ



Exemplary illustration

Thermally insulated slab connection for restraint-free connection of inset balconies and loggias. Corrosion protection as a result of stainless steel rebar.

REI 120 version available.

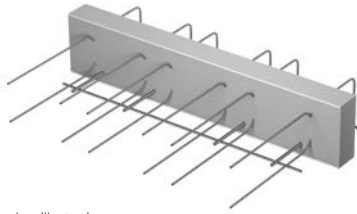
**When ordering, please specify the element height (h).**

- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210800015058	IPQZ 5	400	160–250	0.80	49.00
210800012505	IPQZ 10	300	160–250	1.00	65.70
210800015060	IPQZ 15	500	160–250	1.00	82.40
210800012506	IPQZ 20	400	160–250	1.50	99.00
210800012508	IPQZ 30	500	160–250	2.00	122.40
210800012510	IPQZ 40	300	170–250	1.80	102.60
210800012512	IPQZ 50	400	170–250	2.60	118.80
210800015064	IPQZ 55	500	170–250	3.50	124.20
210800012513	IPQZ 60	300	180–250	2.80	129.60
210800012516	IPQZ 70	400	180–250	4.20	169.20
210800018552	IPQZ 75	500	180–250	5.80	155.30
210800012518	IPQZ 80	300	190–250	2.80	141.30
210800012520	IPQZ 90	400	190–250	4.20	184.50

Additional products for type IPQZ	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPTQQ



Exemplary illustration

Thermally insulated slab connection for transmitting positive and negative shearing forces in supported reinforced concrete components. Corrosion protection as a result of stainless steel rebar. R 90 version available.

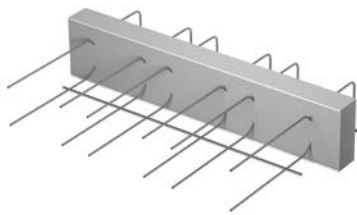
**When ordering, please specify the element height (h).**

- Element length: 500 + 500 mm
- Steel pressure plane

Item number	Type	Transverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
212100019002	IPTQQ 10	Bent	160–250	4.17	167.40
212100019003	IPTQQ 30	Bent	160–250	4.95	182.70
212100019004	IPTQQ 40	Bent	160–250	5.84	225.00
212100019005	IPTQQ 50	Bent	160–250	7.01	253.80
212100019006	IPTQQ 70	Straight	160–250	8.87	280.80
212100019007	IPTQQ 90	Straight	170–250	14.82	307.80
212100019008	IPTQQ 110	Straight	180–250	23.76	361.80

Additional products for type IPTQQ	Construction	Surcharge per m [€]
R 90	Fireproof panels pre-assembled	0.00

## ISOPRO® type IPZQQ



Exemplary illustration

Thermally insulated plate connection for unconstrained transfer of positive and negative shear forces in supported reinforced concrete components. Corrosion protection as a result of stainless steel rebar. R 90 version available.

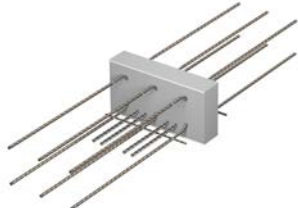
**Please indicate element height (h) when ordering.**

- Element length: 1000 mm
- Insulation material: Neopor with  $\lambda = 0.031 \text{ W/m-K}$

Item number	Type	Transverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
212200022112	IPZQQ 10	Bent	160–250	2.00	162.40
212200022114	IPZQQ 30	Bent	160–250	2.70	177.70
212200022115	IPZQQ 40	Bent	160–250	3.40	220.00
212200022116	IPZQQ 50	Bent	160–250	4.20	248.80
212200022117	IPZQQ 70	Straight	160–250	6.40	275.80
212200022119	IPZQQ 90	Straight	170–250	9.70	302.80
212200022121	IPZQQ 110	Straight	180–250	15.80	356.80

Additional products for type IPZQQ	Construction	Surcharge per m [€]
REI 120	Fireproof panels pre-assembled	0.00

## ISOPRO® type IPTQQS



Exemplary illustration

Thermally insulated slab connection for transmitting positive and negative shearing forces in supported reinforced concrete components where forces are transmitted at certain points. Corrosion protection as a result of stainless steel rebar. R 90 version available.

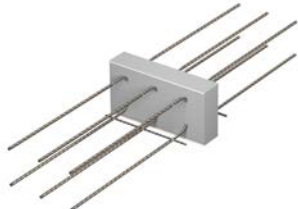
**When ordering, please specify the element height (h).**

- Steel pressure plane

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210700019010	IPTQQS 10	300	160–250	2.95	123.30
210700019011	IPTQQS 20	400	160–250	4.30	182.70
210700019012	IPTQQS 40	300	170–250	4.28	189.90
210700019013	IPTQQS 50	400	170–250	6.66	218.70
210700019014	IPTQQS 60	300	180–250	8.11	239.40
210700019015	IPTQQS 70	400	180–250	11.67	312.30
210700019016	IPTQQS 80	300	190–250	11.61	260.10
210700019017	IPTQQS 90	400	190–250	17.29	342.00

Additional products for type IPTQQS	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPQQZ



Exemplary illustration

Thermally insulated plate connection for unconstrained transfer of positive and negative shear forces in supported reinforced concrete components for punctual force transmission. Corrosion protection as a result of stainless steel rebar. R 90 version available.

**When ordering, please specify the element height (h).**

- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

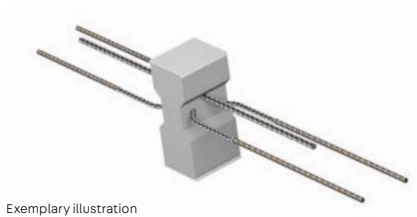
Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
212300022122	IPQQZ 10	300	160–250	2.50	118.30
212300022123	IPQQZ 20	400	160–250	3.60	177.70
212300022125	IPQQZ 40	300	170–250	3.20	184.90
212300022126	IPQQZ 50	400	170–250	4.80	213.70
212300022127	IPQQZ 60	300	180–250	5.30	234.40
212300022128	IPQQZ 70	400	180–250	7.90	307.30
212300022129	IPQQZ 80	300	190–250	8.20	255.10
212300022130	IPQQZ 90	400	190–250	12.30	337.00

Additional products for type IPQQZ	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® horizontal anchor

Item number	Diameter [mm]	Length [mm]	Weight [kg/pc.]	Price per pc. [€]
211800014854	10	620/320/620	0.93	13.00
211800014856	12	740/320/740	1.78	15.00

## ISOPRO® type IPH



Exemplary illustration

Thermally insulated slab connection for transmitting horizontal forces parallel and vertical to the insulation plane. Can be used at certain points as an extension to the linear connectors, e.g. type IP, IPT, IPQ. Corrosion protection as a result of stainless steel rebar. REI 120 version available.

**When ordering, please specify the element height (h). Circumferential REI 120 available on request.**

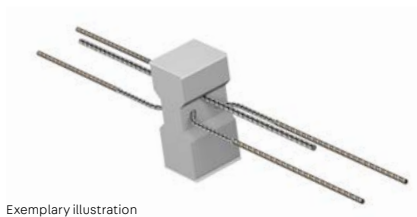
- Element length: 100 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210900011811	IPH 1	160–250	0.59	49.50
210900011813	IPH 2	160–250	0.44	37.80
210900011815	IPH 3	160–250	0.95	69.30

Additional products for type IPH	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled	0.00

## ISOPRO® type IP 80-H



Exemplary illustration

Thermally insulated plate connection for the transfer of horizontal forces parallel and/or perpendicular to the insulation plane. Punctual use as a supplement to line connections, e.g. type IP, IPT, IPQ. Corrosion protection as a result of stainless steel rebar. REI 120 version available.

**When ordering, please specify the element height (h). Circumferential REI 120 available on request.**

- Element length: 100 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
210900021860	IP 80 H-X1	160 – 250	0.44	29.70
210900021864	IP 80 H-X2	160 – 250	0.59	43.20
210900021862	IP 80 H-X1-Y1	160 – 250	0.95	49.50
210900021866	IP 80 H-X2-Y2	160 – 250	1.50	72.90

Additional products for type IP 80-H	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled	0.00

## ISOPRO® type IPE



Exemplary illustration

Thermally insulated slab connection for transmitting horizontal forces parallel and vertical to the insulation plane, as well as for lifting forces (moments resulting from the effects of an earthquake). Can be used at certain points as an extension to the linear connectors, e.g. type IP, IPT, IPQ. Corrosion protection as a result of stainless steel rebar. REI 120 version available.

**When ordering, please specify the element height (h). Circumferential REI 120 available on request.**

- Element length: 100 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
211000011797	IPE 1	160–250	1.98	75.60
211000011799	IPE 2	160–250	5.59	111.60

Additional products for type IPE	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPTD



Exemplary illustration

Thermally insulated slab connection for continuous reinforced concrete ceilings. Corrosion protection as a result of stainless steel rebar. R 90 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

- Element length: 500 + 500 mm
- With concrete covering cv 50: Minimum height of 200 mm required

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
211100012555	IPTD 20	160–250	18.79	330.00
211100012557	IPTD 30	160–250	24.11	390.00
211100012566	IPTD 50	160–250	30.05	566.10
211100012573	IPTD 70	160–250	44.50	684.00
211100012581	IPTD 90	160–250	60.19	797.40
211100015066	IPTD 100	160–250	62.20	910.80

Prices apply to concrete covering cv 35 and 50 mm

Additional products for type IPTD 20-90	Height h [mm]	Construction	Surcharge per m [€]
Q8	160–250	With shear force reinforcement	55.00
Q10	170–250	With shear force reinforcement	120.00

Additional products for type IPTD 100	Height h [mm]	Construction	Surcharge per m [€]
Q8	170–250	With shear force reinforcement	120.00
Q10	180–250	With shear force reinforcement	135.45

Additional products for type IPTD	Construction	Surcharge per m. [€]
R 90	Fireproof panels pre-assembled	0.00

## ISOPRO® type Z ISO



Exemplary illustration

Intermediate insulation as an addition to the insulating joint in different installation situations.

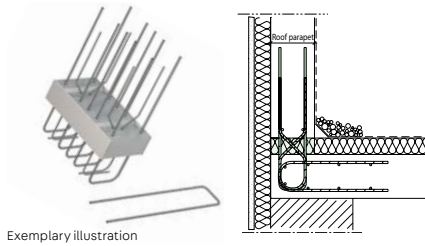
- Element length: 1000 mm
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K
- Fixed length surcharge 12.00 €/pc.
- FPI with fireproof panel

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
2117...	IP Z ISO	1000	160–250	0.6	67.50
2117...	IP Z ISO FP1	1000	160–250	2.2	67.50

FP1 = Fireproof panels 10 mm, (strip foams in case of fire)



## ISOPRO® type IPTA



Exemplary illustration

Thermally insulated connection for joining parapet walls to the horizontal face of floor slabs. Corrosion protection as a result of stainless steel rebar. R 90 version available. The elements are used at specific points depending on the relevant structural requirements.

**When ordering, please specify the parapet wall thickness (a).**

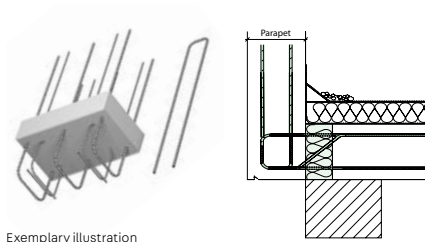
- Ceiling thickness:  $\geq 160$  mm
- Insulation thickness: 80 mm, optionally 60 mm
- Elements from a parapet wall thickness of 160 mm are insulated
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Parapet wall thickness a [mm]	Weight [kg/pc.]	Price per pc. [€]
211200020248	IPTA 1	350	150–250	3.86	127.80
211200020258	IPTA 2	350	150–250	6.47	140.40

Additional products for type IPTA	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPTF



Exemplary illustration

Thermally insulated connection for joining balustrades to the end face of floor slabs. Corrosion protection as a result of stainless steel. R 90 version available. The elements are used at specific points depending on the relevant structural requirements.

**When ordering, please specify the element height (h) and balustrade width (b).**

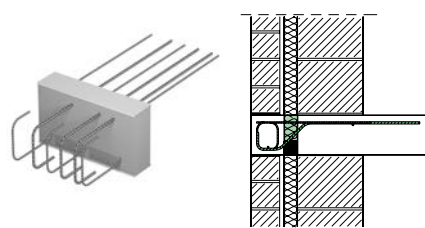
- Balustrade width:  $\geq 130$  mm
- Insulation thickness: 80 mm, optionally 60 mm
- Elements from a height of 160 mm are insulated
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
211300018977	IPTF	350	160–250	2.36	140.40

Additional products for type IPTF	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPO



Exemplary illustration

Thermally insulated connection for joining reinforced steel corbels to floor slabs. Corrosion protection as a result of stainless steel rebar. REI 120 version available.

The elements are used at specific points depending on the relevant structural requirements.

**When ordering, please specify the element height (h).**

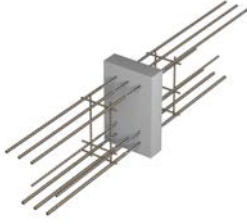
- Corbel width:  $\geq 150$  mm
- Insulation thickness: 80 mm, optionally 60 mm
- Elements from a height of 180 mm are insulated
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
211400020268	IPO 16	350	180–250	2.22	163.80
211400021507	IPO 20	350	180–250	2.22	176.40

Additional products for type IPO	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPTS



Exemplary illustration

Thermally insulated connection for joining projecting reinforced steel beams to floor slabs. Corrosion protection as a result of stainless steel rebar.

R 90 version available.

**When ordering, please specify the height and width.**

- Beam width: 220–300 mm
- Standard height: 300–600 mm

Item number	Type	Weight [kg/pc.]	Price per pc. [€]
211500018978	IPTS 1	7.13	288.90
211500018979	IPTS 2	11.22	337.50
211500018980	IPTS 3	16.21	424.80
211500018981	IPTS 4	22.64	561.60

Additional products for type IPTS	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type IPTW



Exemplary illustration

Thermally insulated connection for joining shear walls to the walls on each storey. Corrosion protection as a result of stainless steel rebar.

R 90 version available.

**When ordering, please specify the wall width and wall height.**

- Wall width: 150–250 mm
- Wall height: Manufactured to individual dimensions (1500–3500 mm)

Item number	Type	Weight [kg/pc.]	Price per pc. [€]
211600018982	IPTW 1	8.30	424.80
211600018983	IPTW 2	13.17	532.80
211600018984	IPTW 3	22.04	612.90
211600018985	IPTW 4	36.35	702.90

Additional products for type IPTW	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	0.00

## ISOPRO® type SBM



Exemplary illustration

Thermal insulation element for transmitting bending moment and shearing force during the connection of a projecting steel structure to a reinforced concrete floor slab.

- Element length: 220 mm
- Insulating material: Neopor with  $\lambda = 0.031$  W/m-K
- A surcharge of 14.00 €/pc. applies to heights of 190, 210, and 230-250 mm
- Heights of 260-280 mm available on request

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
2201000...	SBM 14 Q8	180/200/220	7.4	265.50
2201000...	SBM 14 Q10	180/200/220	8.4	279.00
2201000...	SBM 14 QQ	180/200/220	8.6	292.50
2201000...	SBM 20 Q10	180/200/220	18.8	404.10
2201000...	SBM 20 Q12	180/200/220	19.6	418.50

## ISOPRO® type SBQ



Exemplary illustration

Thermally insulated connection for transmitting shearing force during the connection of a supported steel structure to a reinforced concrete floor slab.

- Element length: 220 mm
- Insulating material: Neopor with  $\lambda = 0.031$  W/m-K
- A surcharge of 14.00 €/pc. applies to heights of 190, 210, and 230-250 mm
- Heights of 260-280 mm available on request

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
2202000...	SBQ 8	180/200/220	5.1	162.90
2202000...	SBQ 10	180/200/220	6.6	186.30
2202000...	SBQ 12	180/200/220	7.5	207.90

## ISOPRO® type HBM



Exemplary illustration

Thermally insulated connection for transmitting bending moment and shearing force during the connection of a projecting wooded structure to a reinforced concrete floor slab.

- Element length: 220 mm
- Insulating material: Neopor with  $\lambda = 0.031$  W/m-K

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
220300011817	HBM 14 Q8 (incl. strut)*	180	16.35	351.00
990100014345	Connection struts		8.95	85.50

\* HBM consists of SBM 14 Q8, height 180 mm incl. strut

## ISOPRO® type HBQ



Exemplary illustration

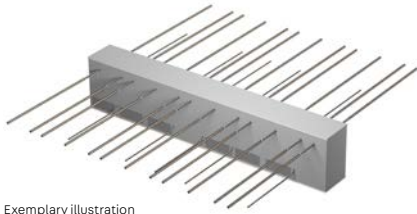
Thermally insulated connection for transmitting bending moment and shearing force during the connection of a supported wooded structure to a reinforced concrete floor slab.

- Element length: 220 mm
- Insulating material: Neopor with  $\lambda = 0.031$  W/m-K

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
220400011818	HBQ 10 (incl. strut)*	180	15.15	271.80
990100014345	Connection struts		8.95	85.50

\* HBQ consists of SBQ 10, height 180 mm incl. strut

## ISOMAXX® type IM



Exemplary illustration

Thermally insulated cantilever slab connection for freely projecting reinforced concrete components. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. REI 120 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

- Element length: IM 15 - IM 75 Q10: 1000 mm, IM 90 Q10 + IM 100 Q10: 500 + 500 mm
- With concrete covering cv 50: mMinimum height 180 mm
- Pressure plane with concrete compression bearings
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$
- Two-part version available for installation in a prefabricated parts factory

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
230100017134	IM 15	160–250	9.30	177.25
230100012078	IM 20	160–250	10.22	210.40
230100012081	IM 25	160–250	11.10	225.55
230100012085	IM 30	160–250	12.34	252.35
230100012093	IM 40	160–250	13.27	280.55
230100012101	IM 45	160–250	15.40	294.35
230100020528	IM 50	160–250	18.66	331.10
230100012113	IM 55	160–250	20.60	379.85
230100018958	IM 65	160–250	21.70	434.15
230100018959	IM 75 Q10	170–250	30.30	540.40
230100018960	IM 90 Q10	170–250	38.90	569.40
230100018961	IM 100 Q10	170–250	42.20	639.80

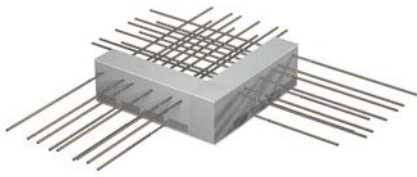
Prices apply to concrete covering cv 35 and 50 mm

Additional products for type IM 15 - IM 65	Height h [mm]	Construction	Surcharge per m [€]
Q8	160–250	With shear force reinforcement	39.25
Q8X	160–250	With shear force reinforcement on both sides	55.55
Q10	170–250	With shear force reinforcement	51.80
Q10X	160–250	With shear force reinforcement on both sides	70.40
Q12	170–250	With shear force reinforcement	66.25

Additional products for type IM 75 Q10 - IM 100 Q10	Height h [mm]	Construction	Surcharge per m [€]
Q10X	160–250	With shear force reinforcement on both sides	31.20
Q12	170–250	With shear force reinforcement	27.05

Additional products for IM	Construction	Surcharge per m [€]
REI 120	Fireproof panels pre-assembled	20.00

## ISOMAXX® type IM/IMT CORNER L/R version



Exemplary illustration

Thermally insulated slab connection for joining freely projecting reinforced concrete components with outside corners. Corrosion protection as a result of stainless steel rebar.  
REI 120/R 90 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

- The prices are for one corner element consisting of a left part (first layer) and right part (second layer)
- The left sub-components IM(T) EL and right sub-components IM(T) ER can also be supplied individually
- Pressure plane type IM with concrete compression bearings
- Pressure plane type IMT out of steel
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Element length [mm]		Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
		First layer	Second layer			
230300018849	IM Corner 20 Q8	500 x 500*		180–250	17.01	445.15
230300018850	IM Corner 20 Q10	500 x 500*		200–250	21.21	471.90
230300012125	IM Corner 30 Q10	500 x 500*		200–250	28.13	746.80
230300012126	IM Corner 30 Q12	500 x 500*		210–250	33.01	774.80
230300012176	IMT Corner 50 Q10	500 x 500*		200–250	40.09	943.35
230300012188	IMT Corner 50 Q12	500 x 500*		210–250	44.97	971.30

\*l = 500 mm + 120 mm packing

Prices valid for concrete covering first layer cv 35 mm and second layer cv 50 mm

Additional products for type IM Corner / IMT Corner	Construction	Surcharge per pc. [€]
REI 120 / R 90	Fireproof panels pre-assembled	22.00

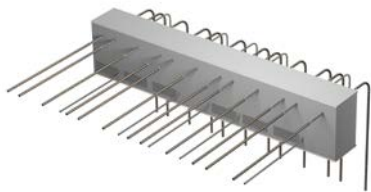
Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
230300018851	IM EL 20 Q8	500	180–250	8.50	221.95
230300018852	IM EL 20 Q10	500	200–250	21.21	236.55
230300007747	IM EL 30 Q10	500	200–250	14.06	373.40
230300007751	IM EL 30 Q12	500	210–250	16.50	387.40
230300012190	IMT EL 50 Q10	500	200–250	20.45	471.70
230300012193	IMT EL 50 Q12	500	210–250	22.49	485.65

Prices apply to concrete covering cv 35 and cv 50 mm

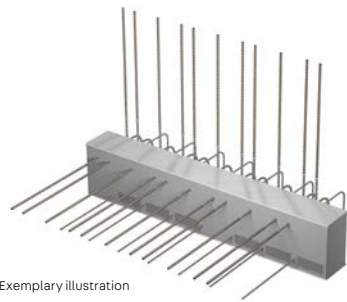
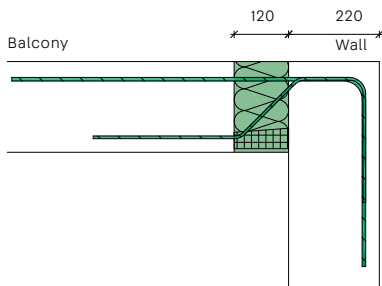
Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
230300018853	IM ER 20 Q8	500	180–250	8.50	221.95
230300018854	IM ER 20 Q10	500	200–250	10.60	236.55
230300007761	IM ER 30 Q10	500	200–250	14.06	373.40
230300007765	IM ER 30 Q12	500	210–250	16.50	387.40
230300012197	IMT ER 50 Q10	500	200–250	20.45	471.70
230300012199	IMT ER 50 Q12	500	210–250	22.49	485.65

Additional products for type IM/IMT L/R version	Construction	Surcharge per pc. [€]
REI 120 / R 90	Fireproof panels pre-assembled	10.00

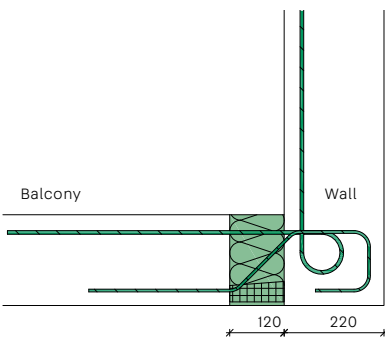
## ISOMAXX® type IM Var. I, IM Var. II



Exemplary illustration



Exemplary illustration



Thermally insulated cantilever slab connection for freely projecting reinforced concrete components with connection to reinforced concrete walls. The reinforcement rods are anchored downwards in the reinforced concrete wall for var. I and upwards for var. II. REI 120 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

- Element length: 1000 mm
- Standard: wall thickness  $\geq 220$  mm
- Special elements available on request, stating the wall thickness

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
230100012078	IM 20 Var. I	160–250	10.28	282.25
230100012081	IM 25 Var. I	160–250	12.09	304.50
230100012085	IM 30 Var. I	160–250	15.17	332.85
230100012101	IM 45 Var. I	160–250	16.33	406.45
230100012728	IM 50 Var. I	160–250	18.49	442.30
230100012113	IM 55 Var. I	160–250	19.65	474.20
230100018958	IM 65 Var. I	160–250	22.97	528.35
230100020371	IM 75 Var. I	160–250	25.13	643.55

Prices apply to concrete covering cv 35 and cv 50 mm

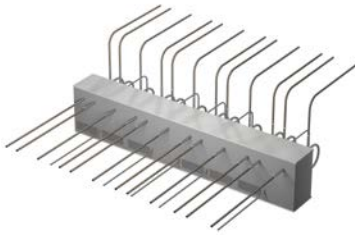
- Element length: 1000 mm
- Standard: wall thickness  $\geq 220$  mm
- Special elements available on request, stating the wall thickness

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
230100012078	IM 20 Var. II	160–250	10.28	282.25
230100012081	IM 25 Var. II	160–250	12.09	304.50
230100012085	IM 30 Var. II	160–250	15.17	332.85
230100012101	IM 45 Var. II	160–250	16.33	406.45
230100012728	IM 50 Var. II	160–250	18.49	442.30
230100012113	IM 55 Var. II	160–250	19.65	474.20
230100018958	IM 65 Var. II	160–250	22.97	528.35
230100020371	IM 75 Var. II	160–250	25.13	643.55

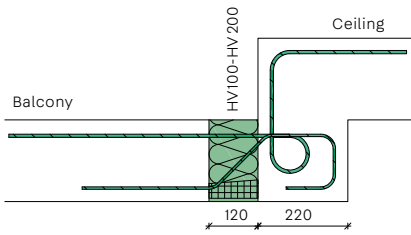
Prices apply to concrete covering cv 35 and cv 50 mm

Additional products for type IM	Construction	Surcharge per m [€]
Q8		39.25
REI 120	Fireproof panels pre-assembled	20.00

## ISOMAXX® type IM Var. III HV, Var. III UV



Exemplary illustration



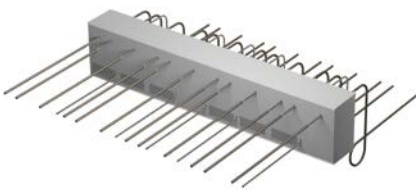
Thermally insulated cantilever slab connection for freely projecting reinforced concrete components with connection to reinforced concrete ceilings with offset heights. The reinforced concrete ceiling is above the balcony slab to be connected for var. III HV and below this slab for var. III UV. REI 120 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

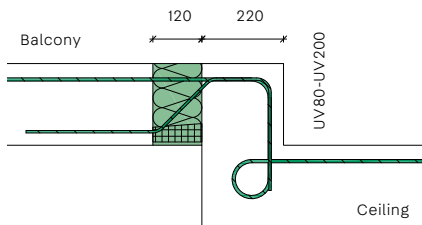
- Element length: 1000 mm
- Standard: height offset HV10 (100 mm), HV15 (150 mm), HV20 (200 mm)
- Special elements available on request, stating the height offset and beam width

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
230100012078	IM 20 Var. III HV	160–250	11.12	282.25
230100012081	IM 25 Var. III HV	160–250	13.28	304.50
230100012085	IM 30 Var. III HV	160–250	16.35	332.85
230100012101	IM 45 Var. III HV	160–250	17.67	406.45
230100012728	IM 50 Var. III HV	160–250	20.00	442.30
230100012113	IM 55 Var. III HV	160–250	21.33	474.20
230100018958	IM 65 Var. III HV	160–250	24.98	528.35
230100020371	IM 75 Var. III HV	160–250	27.61	643.55

Prices apply to concrete covering cv 35 and cv 50 mm



Exemplary illustration



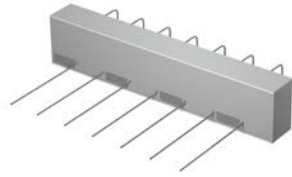
- Element length: 1000 mm
- Standard: height offset UV10 (100 mm), UV15 (150 mm), UV20 (200 mm)
- Special elements available on request, stating the height offset and beam width

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
230100012078	IM 20 Var. III UV	160–250	11.12	282.25
230100012081	IM 25 Var. III UV	160–250	13.28	304.50
230100012085	IM 30 Var. III UV	160–250	16.35	332.85
230100012101	IM 45 Var. III UV	160–250	17.67	406.45
230100012728	IM 50 Var. III UV	160–250	20.00	442.30
230100012113	IM 55 Var. III UV	160–250	21.33	474.20
230100018958	IM 65 Var. III UV	160–250	24.98	528.35
230100020371	IM 75 Var. III UV	160–250	27.61	643.55

Prices apply to concrete covering cv 35 and cv 50 mm

Additional products for type IM	Construction	Surcharge per m [€]
Q8		39.25
REI 120	Fireproof panels pre-assembled	20.00

## ISOMAXX® type IMQ



Exemplary illustration

Thermally insulated slab connection for transmitting shearing forces in supported reinforced concrete components. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. REI 120 version available.

**When ordering, please specify the element height (h).**

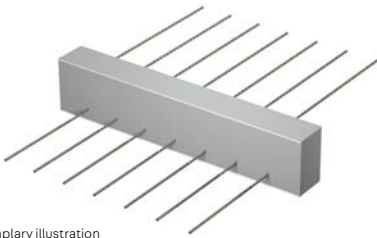
- Element length: 1000 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Transverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
230400012129	IMQ 10	Bent	160–250	5.70	105.80
230400012131	IMQ 20	Bent	160–250	5.90	112.10
230400015082	IMQ 25	Bent	160–250	6.10	119.10
230400012134	IMQ 30	Bent	160–250	6.20	125.75
230400012137	IMQ 40	Bent	160–250	6.40	132.75
230400015084	IMQ 45	Straight	160–250	6.60	137.90
230400012140	IMQ 50	Bent	160–250	6.80	143.05
230400012142	IMQ 60	Straight	160–250	7.50	143.40
230400012145	IMQ 70	Straight	160–250	7.90	179.85
230400012148	IMQ 80	Straight	160–250	8.90	196.90
230400012151	IMQ 90	Straight	160–250	9.70	217.75
230400015086	IMQ 95	Straight	170–250	10.50	227.85
230400017188	IMQ 100	Straight	170–250	11.60	239.50
230400015088	IMQ 110	Straight	170–250	12.80	249.70
230400015090	IMQ 120	Straight	170–250	14.20	259.00

Additional products for type IMQ	Construction	Surcharge per m [€]
REI 120	Fireproof panels pre-assembled	20.00

## ISOMAXX® type IMZQ



Exemplary illustration

Thermally insulated slab connection for transmitting shearing forces in supported reinforced concrete components. The connection is established without restraint. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. REI 120 version available. **When ordering, please specify the element height (h).**

**Type IMZQ must be used in conjunction with IMQ.**

- Element length: 1000 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

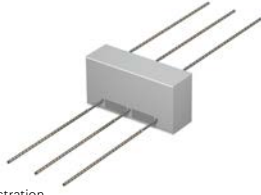
Item number	Type	ransverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
231900015092	IMZQ 10	Bent	160–250	1.70	99.65
231900015098	IMZQ 20	Bent	160–250	1.90	105.95
231900015100	IMZQ 25	Bent	160–250	2.10	112.90
231900015102	IMZQ 30	Bent	160–250	2.20	119.55
231900015104	IMZQ 40	Bent	160–250	2.40	126.60
231900015106	IMZQ 45	Straight	160–250	2.60	131.75
231900015108	IMZQ 50	Bent	160–250	2.80	136.90
231900015110	IMZQ 60	Straight	160–250	3.50	137.25
231900015112	IMZQ 70	Straight	160–250	3.90	173.75
231900015114	IMZQ 80	Straight	160–250	4.90	190.75
231900015116	IMZQ 90	Straight	160–250	5.70	211.65
231900015118	IMZQ 95	Straight	170–250	6.50	221.80
231900015120	IMZQ 100	Straight	170–250	7.60	233.40
231900015122	IMZQ 110	Straight	170–250	8.80	243.45
231900015124	IMZQ 120	Straight	170–250	9.20	252.85

Additional products for type IMZQ	Construction	Surcharge per m [€]
REI 120 / R 90	Fireproof panels pre-assembled	20.00



## ISOMAXX® type IMQS / IMTQS



Exemplary illustration

Thermally insulated slab connection for transmitting shearing forces in supported reinforced concrete components where forces are transmitted at certain points. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. REI 120/R 90 version available.

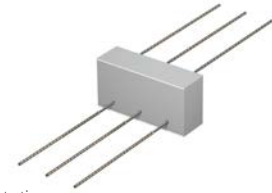
**When ordering, please specify the element height (h) and concrete covering (cv).**

- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
230600015126	IMQS 5	300	160–250	2.10	75.45
230600015128	IMQS 10	300	170–250	2.90	80.10
230600015130	IMQS 15	500	160–250	4.10	96.70
230600015132	IMQS 20	400	170–250	4.80	118.25
230600015134	IMQS 30	500	170–250	5.60	146.70
230600015136	IMQS 40	300	180–250	3.90	123.50
230600015138	IMQS 50	400	170–250	4.80	141.80
230600017189	IMTQS 60	300	190–250	6.10	141.80
230600015140	IMQS 70	400	180–250	5.30	203.20
230600012288	IMTQS 75	400	190–250	9.40	212.25
230600018999	IMQS 80	500	180–250	8.50	222.25
230600012273	IMTQS 100	500	190–250	12.10	232.90

Product upgrades for type IMQS / Type IMTQS	Construction	Surcharge per pc. [€]
REI 120 / R 90	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMQZ



Exemplary illustration

Thermally insulated slab connection for restraint-free connection of inset balconies and loggias. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. REI 120 version available.

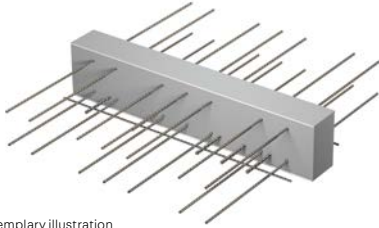
**When ordering, please specify the element height (h). It is obligatory to use type IMQZ in conjunction with IMQS/IMTQS.**

- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
230800015142	IMQZ 5	300	160–250	1.10	47.70
230800015144	IMQZ 10	300	170–250	1.90	52.80
230800015146	IMQZ 15	500	160–250	2.10	57.85
230800015148	IMQZ 20	400	170–250	2.80	66.35
230800015150	IMQZ 30	500	170–250	3.60	72.55
230800015152	IMQZ 40	300	180–250	2.90	86.30
230800015154	IMQZ 50	400	170–250	2.80	80.55
230800015156	IMQZ 60	300	190–250	4.50	104.30
230800015158	IMQZ 70	400	190–250	3.30	136.25
230800015160	IMQZ 75	400	190–250	8.30	142.95
230800015162	IMQZ 80	500	180–250	5.80	152.00
230800015164	IMQZ 100	500	190–250	8.80	164.70

Additional products for type IMQZ	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMTQQ



Exemplary illustration

Thermally insulated slab connection for transmitting positive and negative shearing forces in supported reinforced concrete components. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation.

R 90 version available.

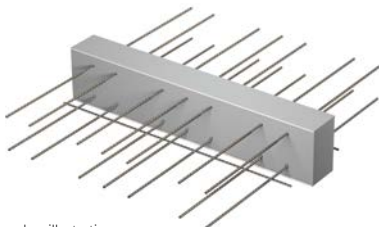
**When ordering, please specify the element height (h).**

- Element length: 1000 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Transverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
230500012250	IMTQQ 10	Bent	160–250	4.66	147.45
230500012254	IMTQQ 20	Bent	160–250	4.92	166.70
230500012257	IMTQQ 30	Bent	160–250	5.43	175.75
230500012261	IMTQQ 40	Bent	160–250	5.69	202.75
230500017190	IMTQQ 50	Bent	160–250	6.70	228.80
230500017191	IMTQQ 60	Straight	160–250	8.70	233.70
230500017192	IMTQQ 70	Straight	160–250	9.60	249.50
230500017193	IMTQQ 80	Straight	170–250	12.10	256.25
230500017194	IMTQQ 90	Straight	170–250	14.20	286.75
230500017195	IMTQQ 100	Straight	170–250	16.30	315.05

Additional products for type IMTQQ	Construction	Surcharge per m [€]
R 90	Fireproof panels pre-assembled	20.00

## ISOMAXX® type IMZQQ



Exemplary illustration

Thermally insulated plate connection for unconstrained transfer of positive and negative shear forces in supported reinforced concrete components. Corrosion protection as a result of stainless steel rebar. 120 mm insulation thickness for improved thermal and sound insulation. R 90 version available.

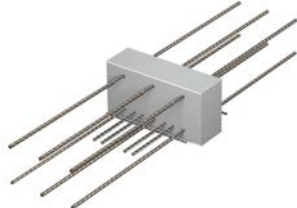
**When ordering, please specify the element height (h).**

- Element length: 1000 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Transverse rod on ceiling	Height h [mm]	Weight [kg/m]	Price per m [€]
232200022300	IMZQQ 10	Bent	160–250	2.44	144.05
232200022301	IMZQQ 20	Bent	160–250	2.82	163.30
232200022302	IMZQQ 30	Bent	160–250	3.56	172.35
232200022303	IMZQQ 40	Bent	160–250	3.95	199.40
232200022304	IMZQQ 50	Bent	160–250	4.71	225.40
232200022305	IMZQQ 60	Straight	160–250	5.78	230.30
232200022306	IMZQQ 70	Straight	160–250	6.59	246.10
232200022307	IMZQQ 80	Straight	170–250	8.61	252.85
232200022308	IMZQQ 90	Straight	170–250	10.15	283.40
232200022309	IMZQQ 100	Straight	170–250	11.68	311.65

Additional products for type IMTQQ	Construction	Surcharge per m [€]
R 90	Fireproof panels pre-assembled	20.00

## ISOMAXX® type IMTQQS



Exemplary illustration

Thermally insulated slab connection for transmitting positive and negative shearing forces in supported reinforced concrete components where forces are transmitted at certain points. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. R 90 version available.

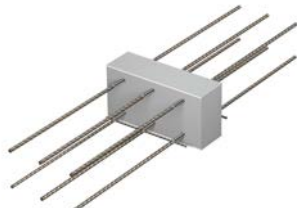
**When ordering, please specify the element height (h).**

- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/Stk.]	Price per pc. [€]
230700012269	IMTQQS 5	300	160–250	2.64	77.40
230700012265	IMTQQS 10	300	170–250	4.38	101.70
230700017196	IMTQQS 15	400	160–250	3.86	121.95
230700012266	IMTQQS 20	400	170–250	6.39	146.45
230700012267	IMTQQS 30	500	170–250	8.56	172.45
230700012268	IMTQQS 40	300	180–250	6.44	154.30
230700017197	IMTQQS 50	400	180–250	10.20	172.45
230700017198	IMTQQS 60	300	190–250	10.54	174.20
230700012270	IMTQQS 70	400	190–250	15.40	272.00
230700017199	IMTQQS 75	400	190–250	15.90	277.10
230700017200	IMTQQS 80	500	180–250	14.06	281.95
230700017201	IMTQQS 100	500	190–250	20.80	333.90

Additional products for type IMTQQS	Construction	Surcharge per m [€]
R 90	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMQQZ



Exemplary illustration

Thermally insulated plate connection for unconstrained transfer of positive and negative shear forces in supported reinforced concrete components. Corrosion protection as a result of stainless steel rebar. 120 mm insulation thickness for improved thermal and sound insulation. R 90 version available.

**When ordering, please specify the element height (h).**

- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/Stk.]	Price per pc. [€]
232300022310	IMQQZ 5	300	160–250	1.90	74.00
232300022311	IMQQZ 10	300	170–250	3.35	98.35
232300022312	IMQQZ 15	400	160–250	2.80	118.55
232300022313	IMQQZ 20	400	170–250	4.98	143.05
232300022314	IMQQZ 30	500	170–250	6.61	169.05
232300022315	IMQQZ 40	300	180–250	5.37	150.90
232300022316	IMQQZ 50	400	180–250	8.00	169.05
232300022317	IMQQZ 60	300	190–250	8.33	170.80
232300022318	IMQQZ 70	400	190–250	8.00	268.60
232300022319	IMQQZ 75	400	190–250	12.45	273.75
232300022320	IMQQZ 80	500	180–250	10.64	278.60
232300022321	IMQQZ 100	500	190–250	16.56	330.50

Additional products for type IMQQZ	Construction	Surcharge per m [€]
R 90	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMH



Exemplary illustration

Thermally insulated slab connection for transmitting horizontal forces parallel and/or vertical to the insulation plane. Can be used at certain points as an extension to the linear connectors, e.g. type IM, IMQ. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. REI 120 version available.

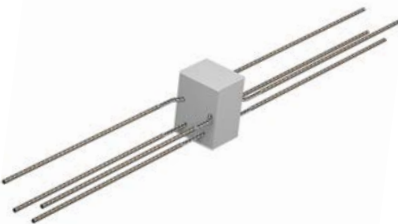
**When ordering, please specify the element height (h). Circumferential REI 120 available on request.**

- Element length: 150 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
230900018992	IMH 1	160–250	0.69	31.90
230900018993	IMH 2	160–250	0.54	24.45
230900018994	IMH 3	160–250	1.05	45.35

Additional products for type IMH	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled	10.00

## ISOMAXX® type IME



Exemplary illustration

Thermally insulated slab connection for transmitting horizontal forces parallel and vertical to the insulation plane, as well as for lifting forces (moments resulting from the effects of an earthquake). Can be used at certain points as an extension to the linear connectors, e.g. type IM, IMQ. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. REI 120 version available.

**When ordering, please specify the element height (h). Circumferential REI 120 available on request.**

- Element length: 150 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
231000018995	IME 1	160–250	2.08	50.05
231000018996	IME 2	160–250	5.69	72.30

Additional products for type IME	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled	10.00

## ISOMAXX® type IM 120-H



Exemplary illustration

Thermally insulated slab connection for transmitting horizontal forces parallel and/or vertical to the insulation plane. Can be used at certain points as an extension to the linear connectors, e.g. type IM, IMQ. Corrosion protection as a result of stainless steel rebar. 120 mm insulating material thickness for improved thermal and sound insulation. Fire protection version available.

**When ordering, please specify the element height (h). Circumferential REI 120 available on request.**

- Element length: 150 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
231300020412	H-X1	180–250*	0.69	33.70
231300020413	H-X2	180–250*	0.54	45.95
231300020414	H-X1Y1	180–250*	1.05	53.20
231300020415	H-X2Y2	180–250*	1.70	78.25

\* Heights <180 mm and >250 mm on request

Surcharges	Construction	Surcharge per pc. [€]
Fire protection REI 120	Fireproof panels pre-assembled	10.00

## ISOMAXX® type IMTD



Exemplary illustration

Thermally insulated slab connection for continuous reinforced concrete ceilings. Corrosion protection as a result of stainless steel rebar. 120 mm insulation material thickness for improved heat insulation with sound insulation. R 90 version available.

**When ordering, please specify the element height (h) and concrete covering (cv).**

- Element length: 500 + 500 mm
- With concrete covering cv 50: Minimum height 200 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Height h [mm]	Weight [kg/m]	Price per m [€]
231100017202	IMTD 20	160–250	14.50	276.05
231100012172	IMTD 30	160–250	22.20	345.75
231100017207	IMTD 50	160–250	31.90	432.65
231100012174	IMTD 70	160–250	43.70	492.30
231500020409	IMTD 90	160–250	59.30	621.00
231100015166	IMTD 100	160–250	66.00	726.50

Prices apply to concrete covering cv 35 and cv 50 mm

Additional products for type IMTD 20–90	Height h [mm]	Construction	Surcharge per m [€]
Q8	160–250	With shear force reinforcement	65.30
Q10	170–250	With shear force reinforcement	109.90

Additional products for type IMTD 100	Height h [mm]	Construction	Surcharge per m [€]
Q8	170–250	With shear force reinforcement	65.30
Q10	180–250	With shear force reinforcement	109.90

Additional products for type IMTD	Construction	Surcharge per m [€]
R 90	Fireproof panels pre-assembled	20.00

## ISOMAXX® type Z ISO



Exemplary illustration

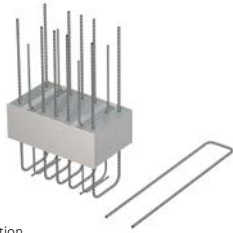
Intermediate insulation as an addition to the insulating joint in different installation situations.

- Element length: 1000 mm
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$
- Fixed length surcharge 11.00 €/pc
- FPI with fireproof panel

Item number	Type	Element length [mm]	Height [mm]	Weight [kg/Stk.]	Price per pc. [€]
2117...	IM Z ISO	1000	160–250	1.1	31.50
2117...	IM Z ISO FP1	1000	160–250	2.7	58.10

FPI = Fireproof panels 10 mm, (strip foams in case of fire)

## ISOMAXX® type IMTA



Exemplary illustration

Thermally insulated connection for joining parapet walls to the horizontal face of floor slabs. Corrosion protection as a result of stainless steel rebar. R 90 version available. Selective use in accordance with the structural requirements.

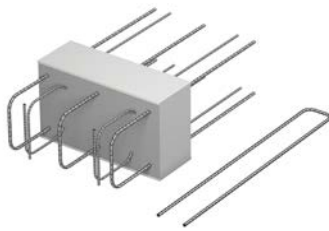
**When ordering, please specify the parapet wall thickness (a).**

- Ceiling thickness:  $\geq 160$  mm
- Insulation thickness: 120 mm
- The thickness of the parapet wall is insulated
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Parapet wall thickness a [mm]	Weight [kg/pc.]	Price per pc. [€]
231200018855	IMTA 1	350	150–250	3.0	112.95
231200018856	IMTA 2	350	150–250	6.0	122.95

Additional products for type IMTA	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMTF



Exemplary illustration

Thermally insulated connection for joining balustrades to the end face of floor slabs. Corrosion protection as a result of stainless steel. R 90 version available. Selective use in accordance with the structural requirements.

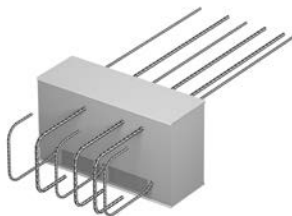
**When ordering, please specify the element height (h) and balustrade width (b).**

- Balustrade width:  $\geq 150$  mm
- Insulation thickness: 120 mm
- The height of the element is insulated
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
231300008677	IMTF	350	160–250	5.70	122.95

Additional products for type IMTF	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMO



Exemplary illustration

Thermally insulated connection for joining reinforced steel corbels to floor slabs. Corrosion protection as a result of stainless steel rebar.

REI 120 version available. Selective use in accordance with the structural requirements.

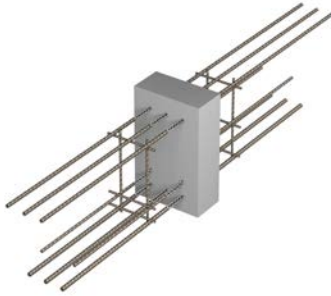
**When ordering, please specify the element height (h).**

- Corbel width:  $\geq 160$  mm
- Insulation thickness: 120 mm
- The height of the element is insulated
- Insulating material: Neopor with  $\lambda = 0.031$  W/m·K

Item number	Type	Element length [mm]	Height h [mm]	Weight [kg/pc.]	Price per pc. [€]
231400018860	IMO 16	350	180–250	2.30	131.00
231400018861	IMO 20	350	180–250	2.40	141.05

Additional products for type IMO	Construction	Surcharge per pc. [€]
REI 120	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMTS



Exemplary illustration

Thermally insulated connection for joining projecting reinforced steel beams to floor slabs. Corrosion protection as a result of stainless steel rebar.

R 90 version available.

**When ordering, please specify the height and width.**

- Element length: 220–300 mm
- Standard height: 300–600 mm
- Insulation thickness: 120 mm
- Option VB I: tension rod arrangement for a good connection
- Option VB II: tension rod arrangement for a moderately strong connection
- Insulating material: Neopor with  $\lambda = 0.031 \text{ W/m}\cdot\text{K}$

Item number	Type	Weight [kg/pc.]	Price per pc. [€]
231500011701	IMTS 1 - VB I	8.10	194.00
231500018857	IMTS 1 - VB II	9.30	230.55
231500011704	IMTS 2 - VB I	12.70	233.60
231500011706	IMTS 2 - VB II	14.30	270.10
231500011708	IMTS 3 - VB I	19.90	303.50
231500011710	IMTS 3 - VB II	22.20	340.05
231500011712	IMTS 4 - VB I	28.30	413.20
231500011714	IMTS 4 - VB II	31.30	449.75

Additional products for type IMTS	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	10.00

## ISOMAXX® type IMTW



Exemplary illustration

Thermally insulated connection for joining shear walls to the walls on each storey. Corrosion protection as a result of stainless steel rebar.

**When ordering, please specify the wall width and height.**

- Wall width: 150–250 mm
- Wall height: 1500–3500 mm
- Insulation thickness: 120 mm
- Arrangement of the tension rods: moderately strong connection

Item number	Type	Weight [kg/pc.]	Price per pc. [€]
231600012305	IMTW 1	9.10	309.85
231600012307	IMTW 2	14.40	388.50
231600012309	IMTW 3	26.80	447.05
231600012311	IMTW 4	41.10	512.85

Additional products for type IMTW	Construction	Surcharge per pc. [€]
R 90	Fireproof panels pre-assembled around the circumference	50.00

## Pallet overview ISOPRO®

Elements per pallet [m/pal.]

ISOPRO® type	Type length [mm]	Element height h [mm]					
		160	180	200	220	240	250
IP 10 – IP 75	1000	22	18	18	16	14	14
IP 10 – IP 45 2-teilig	1000	24	24	24	20	20	20
IP 50 – IP 75 2-teilig	1000	20	20	20	20	20	20
IP 90 – IP 100	500 + 500	16	16	16	14	12	12
IP 90 – IP 100 2-teilig	500 + 500	16	16	16	16	16	16
IPT 110 – IPT 150	500 + 500	12	12	12	12	10	10
IPQ 10 – 50	1000	40	36	36	32	32	28
IPQ 70 – 90	1000	20	18	18	16	16	14
IPQ 100 – 120	1000	20	18	18	16	14	14
IPQS, IPTQS, IPQZ, IPTQQS	300	40	36	36	32	28	28
IPQS, IPTQS, IPQZ, IPTQQS	400	36	36	32	32	28	28
IPQS, IPQZ, IPTQQS	500	28	28	28	24	24	24
IPTQQ 10 – 50	500 + 500	30	27	27	24	24	21
IPTQQ 70 - 110	500 + 500	20	18	18	16	14	14
IPTD 20 - 90	500 + 500	10	8	8	7	6	6
IPTD 100	500 + 500	8	7	6	5	5	4

## Pallet overview ISOMAXX®

Elements per pallet [m/pal.]

ISOMAXX® type	Type length [mm]	Element height h [mm]					
		160	180	200	220	240	250
IM 15 – IM 75	1000	20	18	18	16	16	14
IM 15 – IM 45 two-part	1000	20	20	20	20	20	20
IM 50 – IM 75 two-part	1000	20	20	20	20	20	20
IM 90 – IM 100	500 + 500	16	16	16	14	12	12
M 90 – M 100 two-part	500 + 500	16	16	16	16	16	16
IMQ 10 – 50	1000	40	36	36	32	32	28
IMQ 60 – 120	1000	20	18	18	16	16	14
IMTQQ 10 – 50	1000	30	27	27	24	24	21
IMQS, IMTQS, IMQZ, IMTQQS	300	40	36	36	32	28	28
IMQS, IMTQS, IMQZ, IMTQQS	400	36	36	32	32	28	28
IMQS, IMTQS, IMQZ, IMTQQS	500	28	28	28	24	24	24
IMTD 20 – 100	500 + 500	8	7	6	5	5	4



## ISOMUR® light wall base element



Load-bearing thermal insulation elements in the lower and/or upper section of the masonry. Efficient thermal insulation with a high-load bearing capacity in accordance with ETA-18/1063. Characteristic compressive strength mean value  $\geq 12.5 \text{ N/mm}^2$ .

- Thermal conductivity: horizontal  $\lambda_{eq} = 0.14 \text{ W/(m}\cdot\text{K)}$   
vertical  $\lambda_{eq} = 0.33 \text{ W/(m}\cdot\text{K)}$
- General type certification
- Width: 115-240 mm

Item number	Type / Width / Height	Element length [mm]	Packaging unit [kg/pal.]	Packaging unit [pcs/pal.]	Packaging unit [m/pal.]	Price per m [€]	Price per pc. [€]
290100020366	ISOMUR® light 11.5 – 11.3	600	930	120	72	21.80	13.10
290100020367	ISOMUR® light 15.0 – 11.3	600	990	100	60	On request	On request
290100020368	ISOMUR® light 17.5 – 11.3	600	918	80	48	26.30	15.80
290100020369	ISOMUR® light 24.0 – 11.3	600	966	60	36	33.10	19.85

## ISOMUR® plus wall base element



Load-bearing thermal insulation elements in the lower and/or upper section of the masonry. Efficient thermal insulation with a high-load bearing capacity in accordance with ETA-18/1063. Characteristic compressive strength mean value  $\geq 25.0 \text{ N/mm}^2$ .

- Thermal conductivity: horizontal  $\lambda_{eq} = 0.14 \text{ W/(m}\cdot\text{K)}$   
vertical  $\lambda_{eq} = 0.33 \text{ W/(m}\cdot\text{K)}$
- General type certification
- Width: 115-240 mm

Item number	Type / Width / Height	Element length [mm]	Packaging unit [kg/pal.]	Packaging unit [pcs/pal.]	Packaging unit [m/pal.]	Price per m [€]	Price per pc. [€]
290100004824	ISOMUR® plus 11.5 – 11.3	600	930	120	72	28.60	17.15
290100004826	ISOMUR® plus 15.0 – 11.3	600	990	100	60	30.90	18.55
290100004828	ISOMUR® plus 17.5 – 11.3	600	918	80	48	34.60	20.75
290100004830	ISOMUR® plus 20.0 – 11.3	600	990	80	48	37.40	22.45
290100004832	ISOMUR® plus 24.0 – 11.3	600	966	60	36	40.30	24.20



# Formwork

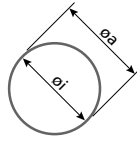
## RAPIDOBAT®

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## RAPIDOBAT® unlined

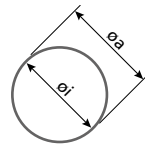


Round shuttering tubes with an unlined design.

- Other diameters and lengths available on request
- Prices apply to lengths of 2500 mm to 6000 mm or 7000 mm
- For accessories for alignment and fastening, see page 81

Item number	Dimensions [mm]		Shuttering height [mm]	Weight [kg/m]	Price per m [€]
	Inner dia.	Outer dia.			
310100001877	150	157	7000	1.26	14.40
310100001878	200	207	7000	1.68	16.40
310100001880	240	248	7000	2.01	20.00
310100001881	250	258	7000	2.09	20.60
310100001883	300	309	7000	3.51	24.80
310100001886	350	361	7000	3.52	32.70
310100001887	360	371	7000	4.20	35.50
310100001889	400	411	7000	4.69	40.30
310100001890	435	446	7000	5.09	45.80
310100001891	450	463	7000	6.02	46.70
310100001892	500	515	7000	7.53	49.50
310100013213	550	567	7000	8.28	55.80
310100001893	560	575	7000	8.42	57.00
310100001894	600	615	7000	9.03	59.50
310100001895	650	667	7000	10.85	68.40
310100001896	700	717	7000	11.69	88.80
310100001898	750	769	7000	13.78	104.40
310100001899	800	821	7000	16.03	111.10
310100001900	900	923	7000	18.03	225.60
310100001875	1000	1024	7000	21.77	274.30
310100001876	1200	1226	6000	26.07	333.80

## RAPIDOBAT® lined

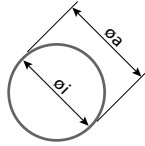


Round shuttering tubes with film insert for a very smooth concrete surface.

- Other diameters and lengths available on request
- Prices apply to lengths of 2500 mm to 6000 mm or 7000 mm
- Number of film joints: dia. 150-560 mm 1 joint, dia. 600-1000 mm 2 joints, > 1000 mm 3 joints
- For accessories for alignment and fastening, see page 81

Item number	Dimensions [mm]		Shuttering height [mm]	Weight [kg/m]	Price per m [€]
	Inner dia.	Outer dia.			
310200001851	150	157	7000	1.49	21.80
310200001852	200	207	7000	1.98	26.00
310200001854	240	248	7000	2.37	30.60
310200001855	250	258	7000	2.47	32.40
310200001857	300	309	7000	3.96	39.10
310200001860	350	361	7000	4.05	48.00
310200001861	360	371	7000	4.74	50.10
310200001863	400	411	7000	5.40	54.50
310200001864	435	446	7000	5.89	62.70
310200001865	450	463	7000	6.82	63.60
310200001866	500	515	7000	8.66	68.30
310200013199	550	567	7000	10.44	89.00
310200001867	560	575	7000	10.62	90.20
310200001868	600	615	7000	11.39	91.90
310200001869	650	667	7000	13.40	115.80
310200001871	700	717	7000	14.44	132.10
310200001872	750	769	7000	16.72	148.40
310200001873	800	821	7000	19.17	158.20
310200001874	900	923	7000	21.56	277.80
310200001849	1000	1024	7000	25.70	326.60
310200001850	1200	1226	6000	30.78	532.70

## RAPIDOBAT® Cretcon HD

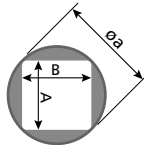


Formwork tubes for the highest demands on the surface finish of exposed concrete. The activatable hydrogel formwork skin of RAPIDOBAT® Cretcon HD minimises cavity formation and ensures a uniform colour of the finished concrete column. Consequently, it is possible to ensure classification into the exposed concrete class SB4.

- Other lengths available on request
- Prices apply to lengths of 2500 mm to 7000 mm
- For accessories for alignment and fastening, see page 81

Item number	Dimensions [mm]		Shuttering height [mm]	Weight [kg/m]	Price per m [€]
	Inner dia.	Outer dia.			
310300001830	200	207	7000	2.21	26.00
310300001832	240	248	7000	2.65	30.60
310300001833	250	258	7000	2.76	32.40
310300001835	300	309	7000	4.31	39.10
310300001837	350	361	7000	4.45	48.00
310300001838	360	371	7000	5.16	50.10
310300001839	400	411	7000	5.76	54.50
310300001840	435	446	7000	6.25	62.70
310300001841	450	463	7000	7.22	63.60
310300001842	500	515	7000	8.87	68.30
3103000013184	550	567	7000	9.75	89.00
310300001843	560	575	7000	9.92	90.20
310300001844	600	615	7000	10.63	91.90
310300001845	650	667	7000	12.59	115.80
310300001846	700	717	7000	13.56	132.10
310300001847	750	769	7000	15.78	148.40
310300001848	800	821	7000	18.17	158.20

## RAPIDOBAT® square

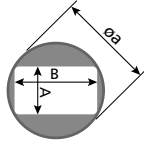


Shuttering tubes for square reinforced concrete columns.

- Prices apply to ex-stock lengths: 3000 mm and 4000 mm
- Up to 4000 mm, longer lengths available on request
- Fixed length surcharge outside ex-stock lengths + 8%
- Net surcharge for short pieces < 2500 mm
- Other dimensions on request
- For accessories for alignment and fastening, see page 78/81

Item number	Dimensions [mm]			Chamfer [mm]	Weight [kg/m]	Price per m [€]
	A	B	Outer dia.			
310400001781	200	200	273	24	6.90	40.50
310400001789	240	240	325	24	7.30	50.60
310400001798	250	250	341	24	7.50	52.00
310400001804	300	300	410	24	9.50	60.80
310400001810	350	350	512	24	14.10	74.80
310400001814	400	400	614	24	17.20	84.40
310400001817	450	450	665	24	21.50	146.30
310400001818	500	500	738	24	26.80	155.20

## RAPIDOBAT® rectangular



Shuttering tubes for rectangular reinforced concrete columns.

- Other dimensions on request
- Prices apply to ex-stock lengths: 3000 mm and 4000 mm
- Up to 5000 mm; longer lengths available on request
- Fixed length surcharge for lengths up to 5000 mm + 8%
- Net surcharge for short pieces < 2500 mm
- For accessories for alignment and fastening, see below and page 81

Item number	Dimensions [mm]		Outer dia.	Chamfer [mm]	Weight [kg/m]	Price per m [€]
	A	B				
310400001780	175	240	325	24	7.80	55.20
310400001782	200	240	359	24	8.50	45.80
310400001783	200	250	359	24	8.60	47.10
310400001784	200	300	410	24	9.80	55.30
310400001785	200	350	460	24	9.90	77.30
310400001786	200	400	512	24	13.90	68.90
310400001787	200	450	512	24	14.20	89.70
310400001788	200	500	572	24	15.50	110.40
310400001790	240	300	410	24	9.70	61.80
310400001791	240	350	445	24	11.00	94.70
310400001792	240	365	461	24	12.50	98.80
310400001794	240	400	512	24	14.00	99.90
310400001795	240	450	572	24	15.30	113.00
310400001796	240	500	572	24	15.30	114.60
310400001799	250	300	410	24	10.00	61.80
310400001800	250	350	460	24	11.10	94.70
310400001801	250	400	512	24	14.30	99.90
310400001802	250	450	572	24	15.30	107.70
310400001803	250	500	614	24	18.00	125.60
310400001805	300	350	512	24	13.70	75.90
310400001806	300	400	572	24	16.10	78.80
310400001807	300	450	572	24	15.05	121.20
310400001808	300	500	614	24	17.20	129.50
310400001811	350	400	572	24	17.70	88.70
310400001812	350	450	614	24	17.05	128.10
310400001813	350	500	665	24	20.40	149.10
310400001815	400	450	665	24	20.30	145.00
310400001816	400	500	665	24	20.10	149.50

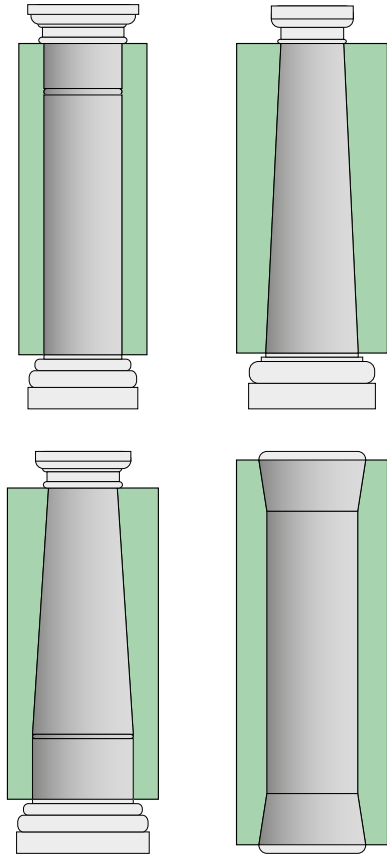
## RAPIDO-Fix



Fitting aid for alignment of all angular versions.

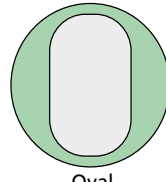
Item number	For dimensions [mm]	Packaging unit [pcs/set]	Weight [kg/pc.]	Price per set [€]
330300001930	all	2	0.28	17.70

## RAPIDOBAT® special shapes

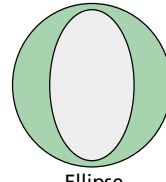


RAPIDOBAT® shuttering elements for special shapes. All creative and sophisticated special forms are possible. For example cone-shaped, oval, or L-formed columns.  
We produce according to your drawings and specifications. Contact us for more information.

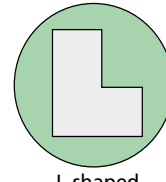
Type	Price [€]
RAPIDOBAT® special shape	On request



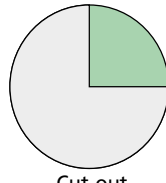
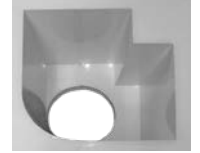
Oval



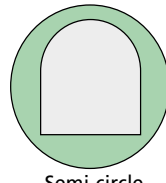
Ellipse



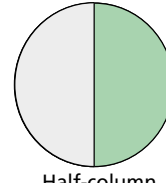
L-shaped



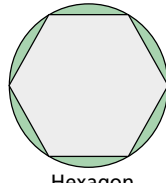
Cut-out



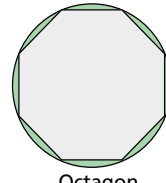
Semi-circle



Half-column



Hexagon



Octagon



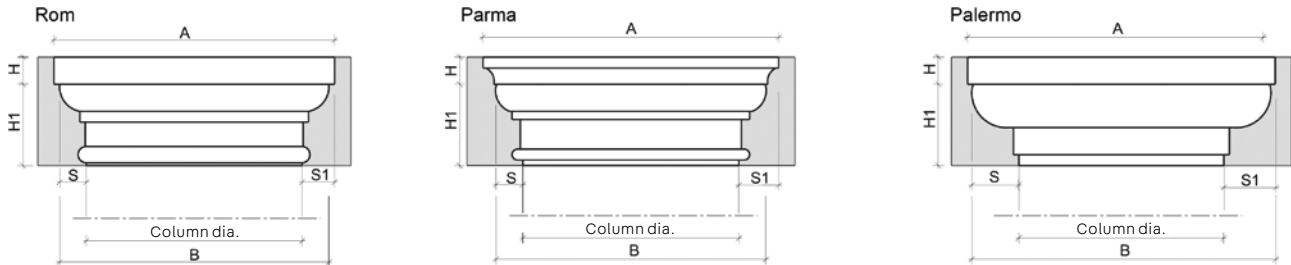
Custom-made



## Capitals

Capitals formwork compatible with RAPIDOBAT® shuttering tubes.

- Other dimensions and shapes available on request
- Prices apply to column diameters of 200–300 mm
- Prices available on request for diameters of more than 350 mm

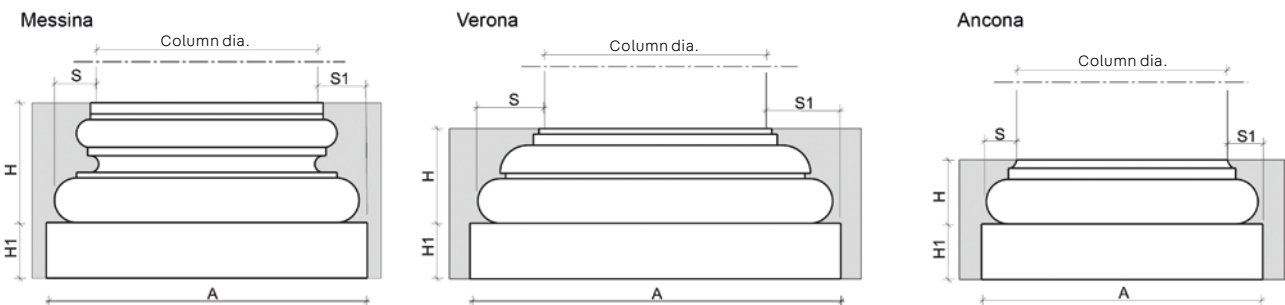


Item number	Capital type	Dimensions [mm]					Price per pc. [€]
		H	H1	S	S1	A	
3201...	Rom	50	150	50	60	Column dia. + 120	287.20
3201...	Parma / Abakus round	50	150	50	90	Column dia. + 180	280.80
3201...	Palermo	50	150	100	110	Column dia. + 220	279.30

## Bases

Base formwork compatible with RAPIDOBAT® shuttering tubes.

- Other dimensions and shapes available on request
- Prices apply to column diameters of 200–300 mm
- Prices available on request for diameters of more than 350 mm



Item number	Capital type	Dimensions [mm]					Price per pc. [€]
		H	H1	S	S1	A	
3203...	Messina	200	100	80	90	Column dia. + 180	292.20
3203...	Verona	200	100	70	80	Column dia. + 160	287.70
3203...	Ancona	100	100	55	65	Column dia. + 130	263.30

## Release agent for capitals and bases

Gelatinous release agent for capitals and bases for improved stripping of the shuttering elements from the concrete.

Item number	Contents [litre]	Usage per capital/base in litres	Weight [kg/bucket]	Price per litre [€]
320300004983	2.5	approx. 0.65	2.14	44.80



## RAPIDO-Clamp type D-set



Consisting of a tension belt with two brackets and welded-on DYWIDAG anchor rods for alignment with tensile and compressive supports.

Item number	For diameter [mm]	Weight [kg/set]	Price per set [€]
330200001937	200–1200	1.10	56.20

Single anchor plate for RAPIDO-Spann type D	Weight [kg/pc.]	Price per pc. [€]
330200001936	0.30	22.60

## RAPIDO-Clamp type M



Adjustable steel sleeve

Fixed or adjustable steel sheet sleeves with DYWIDAG anchor rods for alignment with tensile and compressive supports.

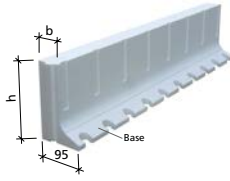
Item number	For diameter [mm]	Type	Weight [kg/set]	Price per set [€]
330200001926	250–400	Adjustable steel sleeve	2.95	79.60
330200001927	435–600	Adjustable steel sleeve	4.30	89.50
330200001928	650–800	Adjustable steel sleeve	6.75	157.70
330200001929	900–1000	Adjustable steel sleeve	8.25	203.20
330200001925	1200	Adjustable steel sleeve	9.90	302.00

## RAPIDOBAT® accessories

- Adhesive tape for strengthening shuttering tubes and connecting half-shells
- Adhesive tape strengthened longitudinally and transversely, width 50 mm

Item number	Function	Packaging unit [m/roll]	Weight [kg/roll]	Price per roll [€]
990500000318	For strengthening	50	0.65	14.70
990500019064	For half-shells	50	0.78	60.70

## WARBORD® type SE with base



Insulating and ceiling edge shuttering made from expanded polystyrene (EPS) of thermal conductivity group 035.

Item number	Dimensions [mm]			Construction	Weight [kg/m]	Packaging unit [m/box]	Price per m [€]
	h	l	b				
360100004985	180	1000	60	With base	0.31	36.0	7.30
360100004986	200	1000	60	With base	0.34	32.0	8.00
360100004987	220	1000	60	With base	0.35	28.0	9.00
360100004989	250	1000	60	With base	0.37	25.0	12.70

## WARBORD® type SE without base



Insulating and ceiling edge shuttering made from expanded polystyrene (EPS) of thermal conductivity group 035.

- Other dimensions on request

Item number	Dimensions [mm]			Construction	Weight [kg/m]	Packaging unit [m/box]	Price per m [€]
	h	l	b				
360100014435	180	1000	80	Without base	0.28	24.0	8.40
360100014437	200	1000	80	Without base	0.31	28.0	9.00
360100014439	220	1000	80	Without base	0.34	21.0	9.60
360100014441	250	1000	80	Without base	0.39	21.0	13.20
360100014432	160	1000	100	Without base	0.29	30.0	8.80
360100014434	180	1000	100	Without base	0.34	24.0	9.20
360100014436	200	1000	100	Without base	0.38	24.0	11.20
360100014438	220	1000	100	Without base	0.42	18.0	12.20
360100014440	250	1000	100	Without base	0.48	21.0	13.60

## WARBORD® accessories

Item number	Type	Usage [ml/m]	Contents [ml/tin]	Packaging unit [pcs/box]	Price per tin [€]
360200005005	WABO foam	25	750	12	15.10
360200005007	Gun Foam	25	750	12	15.10

Item number	Type	Weight [kg/pc.]	Packaging unit [pcs]	Price per pc. [€]
360200005006	Foam gun	0.50	1	73.90

## Shuttering elements R and A R



Type R

Shuttering elements as a lost formwork in construction joints.

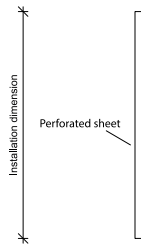
Rough joint according to DIN EN 1992-1-1/NA.

The type R shuttering element is fitted with a lattice girder.

**When ordering, please specify the joint length and installation height (E dimension).**

- E dimension: distance between top and bottom reinforcement layer
- Element length: 2400 mm, other lengths available on request
- Surcharge for short pieces + 10%
- Surcharge for conical cut + 8.10 €/m

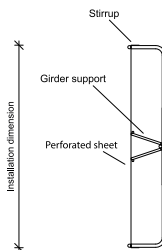
### Shuttering element type R - rough joint according to EC2



Type R

Item number	Installation height [mm]	Weight [kg/m]	Price per m [€]
340100013228	80–200	0.96	8.90
340100013229	210–250	1.16	10.20
340100013230	260–300	1.36	11.50
340100013231	310–350	1.56	13.20
340100014960	360–400	1.76	14.60
340100014961	410–500	2.16	19.70
340100013234	510–600	2.56	28.80
340100013235	610–700	2.96	31.90
340100013236	710–800	3.36	34.40
340100013237	810–900	3.76	36.90
340100013238	910–1000	4.16	39.90

### Shuttering element type A R - rough joint according to EC2



Type A R

Item number	Installation height [mm]	Weight [kg/m]	Price per m [€]
340300013275	80–200	2.33	24.70
340300013276	210–250	2.56	26.40
340300013277	260–300	2.78	27.90
340300013278	310–350	3.22	31.60
340300014963	360–400	3.46	32.80
340300013280	410–500	3.95	38.40
340300013281	510–600	4.88	47.70

Shuttering elements for water-impervious construction joints can be found in the section on sealing from page 9.

Compatible fibre-reinforced concrete shuttering strips for shuttering elements (floor/floor and ceiling/ceiling) can be found in the section on sealing on page 10.

## Shuttering elements V & AV & AV-S



Type AV

Shuttering elements as a lost formwork in construction joints.

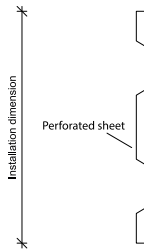
Toothed joint according to DIN EN 1992-1-1/NA.

The type V shuttering element is a pure expanded metal element and reinforced with a lattice girder.

**When ordering, please specify the joint length and installation height (E dimension).**

- E dimension: distance between upper and lower layer of reinforcement [mm]
- Element length: 2400 mm; other lengths available on request
- Surcharge for short pieces + 10%
- Surcharge for conical cut + 8.10 €/m

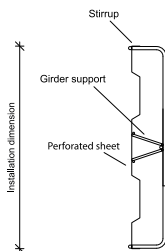
### Shuttering element type V - toothed joint according to EC2



Type V

Item number	Installation height [mm]	Weight [kg/m]	Price per m [€]
340200013251	140–200	1.20	10.20
340200013252	210–250	1.30	11.60
340200013253	260–300	1.50	13.00
340200013254	310–350	1.70	15.80
340200014962	360–400	1.90	16.20
340200013256	410–500	2.30	21.60
340200013257	510–600	2.70	31.00
340200013258	610–700	3.10	33.90
340200013259	710–800	3.64	36.80
340200013260	810–900	4.04	39.60
340200013261	910–1000	4.44	42.20

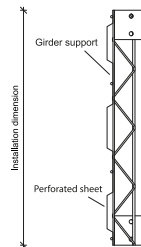
### Shuttering element type AV (version with steel construction) - toothed joint according to EC2



Type AV

Item number	Installation height [mm]	Weight [kg/m]	Price per m [€]
340400013300	140–200	2.57	26.20
340400013301	210–250	2.70	28.00
340400013302	260–300	2.92	29.00
340400013303	310–350	3.36	32.70
340400014964	360–400	3.55	33.60
340400013305	410–500	4.04	39.00
340400013306	510–600	5.42	51.20

### Shuttering element type AV-S - toothed joint according to EC2, reinforced version



Type AV-S

Item number	Installation height [mm]	Weight [kg/m]	Price per m [€]
340400022132	600 - 690	4.82	63.10
340400022133	700 - 790	5.21	65.70
340400022134	800 - 890	6.78	68.50
340400022135	900 - 990	7.15	71.30
340400022136	1000 - 1090	8.96	79.90
340400022137	1100 - 1190	9.40	89.50
340400022138	1200 - 1290	9.84	99.10
340400022139	1300 - 1390	10.94	108.80
340400022140	1400 - 1490	11.38	118.40
340400022141	1500 - 1590	11.82	128.00
340400022142	1600 - 1690	14.01	137.60
340400022143	1700 - 1790	14.49	147.20
340400022144	1800 - 1890	14.98	156.80
340400022145	1900 - 2000	16.81	166.40

Shuttering elements for water-impervious construction joints can be found in the section on sealing from page 9.

Compatible fibre-reinforced concrete shuttering strips for shuttering elements (floor/floor and ceiling/ceiling) can be found in the section on sealing on page 10.





# Sound insulation

## SINTON®

SINTON® X	88
SINTON® X-T1 / X-T2	88
SINTON® S	88
SINTON® SDL	89
SINTON® Z	89
SINTON® ZB	90
SINTON® HT-V	90

## SINTON® X

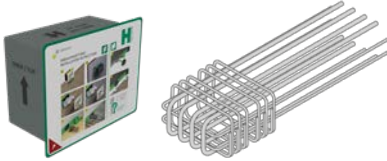


Impact sound insulation element for masonry and concrete walls. Hollow elements for supporting and acoustically isolating the landing and staircase wall at the same time. Supplied with a recess former with a mounting plate for brick and concrete walls.

- Version 1 = compression bearing at the bottom
- Version 2 = compression bearing at the bottom and top
- Version 3 = compression bearing at the bottom, top, and sides

Item number	Type	Version	Internal dimensions [mm]			Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
			W	D	H			
410200020313	SINTON® X1	1	245	150	180	1.25	48	86.90
410200020314	SINTON® X2	2	245	150	180	1.25	48	95.00
410200020315	SINTON® X3	3	245	150	180	1.25	48	104.50

## SINTON® X-T1 / X-T2

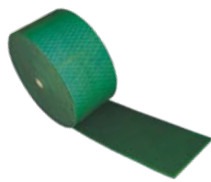


Impact sound insulation element with welded reinforcement cage. Hollow element for supporting and acoustically isolating the landing and staircase wall at the same time. Supplied with a recess former with a mounting plate for brick and concrete walls.

- Version 1 = compression bearing at the bottom
- Version 2 = compression bearing at the bottom and top
- Version 3 = compression bearing at the bottom, top, and sides

Item number	Type	Version	Internal dimensions [mm]			Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
			W	D	H			
410300020373	SINTON® X1-T1	1	245	150	180	5.85	48	144.40
410300020374	SINTON® X2-T1	2	245	150	180	5.85	48	152.50
410300020375	SINTON® X3-T1	3	245	150	180	5.85	48	162.00
410300021515	SINTON® X1-T2	1	245	150	180	6.67	48	183.40
410300021516	SINTON® X2-T2	2	245	150	180	6.67	48	191.50
410300021517	SINTON® X3-T2	3	245	150	180	6.67	48	201.00

## SINTON® S



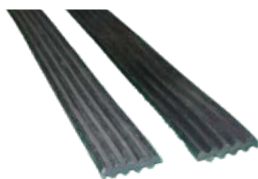
Flexible insulation plate which is self-adhesive on one side for acoustically isolating concrete components that lie flush with the staircase wall.

- Supplied in rolls

Item number	Type	Dimensions [mm]		Packaging unit [roll/pal.]	Weight [kg/roll]	Packaging unit [m/roll]	Price per m [€]
		W	T				
450100005009	SINTON® S 24	240	15	20	2.30	15.00	14.30
450100005010	SINTON® S 36	360	15	20	3.40	15.00	18.50
450100022151	SINTON® S 42	420	15	12	6.40	15.00	19.40
450100014978	SINTON® S 48	480	15	12	9.20	15.00	20.40



## SINTON® SDL



Elastomer bearing for sound insulation and load transfer on flights of stairs.

Item number	Type	Dimensions [mm]			Weight [kg/pc.]	Price per pc. [€]
		Element length	Width of	Thickness		
460100002382	SINTON® SDL 10/50	1000	50	10	0.45	13.80
460100002386	SINTON® SDL 12/50	1200	50	10	0.54	16.70
460100002388	SINTON® SDL 15/50	1500	50	10	0.67	20.80
460100002384	SINTON® SDL 100/50	10000	50	10	4.46	107.00
460100002383	SINTON® SDL 10/100	1000	100	10	0.90	25.00
460100002387	SINTON® SDL 12/100	1200	100	10	1.08	19.20
460100002389	SINTON® SDL 15/100	1500	100	10	1.34	37.70
460100002385	SINTON® SDL 100/100	10000	100	10	8.92	194.70

## SINTON® Z



The impact sound layers are suitable for supporting prefabricated flights of stairs on landings and ceilings in such a way as to isolate the impact sound generated on them.

- Other dimensions on request
- Variable support width

Item number	Type	Bearings	Element length [mm]	Weight [kg/pc.]	Price per pc. [€]
430100004136	SINTON® Z 100/4	4 single bearings*	1000	0.30	34.60
430100004134	SINTON® Z 100/5	5 single bearings*	1000	0.32	39.60
430100022263	SINTON® Z 110/5	5 single bearings*	1100	0.34	40.30
430100004138	SINTON® Z 110/6	6 single bearings*	1100	0.34	43.70
430100004139	SINTON® Z 120/6	6 single bearings*	1200	0.36	47.20
430100019751	SINTON® Z 130/7	7 single bearings*	1300	0.39	54.50
430100004141	SINTON® Z 150/6	6 single bearings*	1500	0.45	62.60
430100004143	SINTON® Z 150/8	8 single bearings*	1500	0.60	66.00
430100004135	SINTON® Z 100 L	1 linear bearing	1000	0.30	62.50
430100004137	SINTON® Z 110 L	1 linear bearing	1100	0.57	68.00
430100004140	SINTON® Z 120 L	1 linear bearing	1200	0.36	74.20
430100019752	SINTON® Z 130 L	1 linear bearing	1300	0.39	82.50
430100004142	SINTON® Z 150 L	1 linear bearing	1500	0.45	99.90
*additional single bearing					4.90

## SINTON® ZB



The impact sound layers are suitable for supporting prefabricated flights of stairs on base plates in such a way as to isolate the impact sound generated on them.

- Other dimensions on request
- Variable support width

Item number	Type	Bearings	Dimensions L x W [mm]	Weight [kg/pc.]	Price per pc. [€]
430200004144	SINTON® ZB 100x36/4	4 single bearings*	1000 x 360	0.30	70.10
430200004146	SINTON® ZB 100x60/4	4 single bearings*	1000 x 600	0.50	72.80
430200004148	SINTON® ZB 100x36/5	5 single bearings*	1000 x 360	0.35	73.70
430200004149	SINTON® ZB 100x60/5	5 single bearings*	1000 x 600	0.55	75.60
430200004150	SINTON® ZB 110x36/6	6 single bearings*	1100 x 360	0.40	75.00
430200004152	SINTON® ZB 110x60/6	6 single bearings*	1100 x 600	0.60	78.20
430200004154	SINTON® ZB 120x36/6	6 single bearings*	1200 x 360	0.36	75.60
430200004156	SINTON® ZB 120x60/6	6 single bearings*	1200 x 600	0.60	79.00
430200019753	SINTON® ZB 130x36/7	7 single bearings*	1300 x 360	0.39	86.50
430200019754	SINTON® ZB 130x60/7	7 single bearings*	1300 x 600	0.65	90.50
430200004158	SINTON® ZB 150x36/6	6 single bearings*	1500 x 360	0.45	87.40
430200004160	SINTON® ZB 150x60/6	6 single bearings*	1500 x 600	0.75	92.20
430200004162	SINTON® ZB 150x36/8	8 single bearings*	1500 x 360	0.60	97.30
430200004164	SINTON® ZB 150x60/8	8 single bearings*	1500 x 600	0.80	102.20
430200004145	SINTON® ZB 100x36 L	Linear bearing	1000 x 360	0.30	100.70
430200004147	SINTON® ZB 100x60 L	Linear bearing	1000 x 600	0.50	105.90
430200004151	SINTON® ZB 110x36 L	Linear bearing	1100 x 360	0.35	106.00
430200004153	SINTON® ZB 110x60 L	Linear bearing	1100 x 600	0.60	111.30
430200004155	SINTON® ZB 120x36 L	Linear bearing	1200 x 360	0.36	111.30
430200004157	SINTON® ZB 120x60 L	Linear bearing	1200 x 600	0.60	116.60
430200004159	SINTON® ZB 150x36 L	Linear bearing	1500 x 360	0.45	140.40
430200004161	SINTON® ZB 150x60 L	Linear bearing	1500 x 600	0.75	145.70
*additional single bearing					4.90

## SINTON® HT-V type-tested



For isolating flights of stairs and landings from impact sound. The elements are type-tested and meet the requirements of fire resistance class R 90. Can be used for in-situ concrete and prefabricated flights of stairs.

**When ordering, please specify the height (h) and length (l).**

- Price for element length 1000–1250 mm

Item number	Type	Height [mm]	Weight [kg/m]	Packaging unit [pcs/pal.]	Price per pc. [€]
440100012766	SINTON® HT-V4 – 160	160	3.47	16	123.00
440100012768	SINTON® HT-V4 – 180	180	3.92	14	123.00
440100012770	SINTON® HT-V4 – 200	200	4.32	12	123.00
440100012773	SINTON® HT-V4 – 220	220	4.66	10	123.00
440100012778	SINTON® HT-V6 – 160	160	3.88	16	136.80
440100012780	SINTON® HT-V6 – 180	180	4.33	14	136.80
440100012782	SINTON® HT-V6 – 200	200	4.73	12	136.80
440100012785	SINTON® HT-V6 – 220	220	5.03	10	136.80
440100012794	SINTON® HT-V8 – 160	160	4.29	16	159.40
440100012796	SINTON® HT-V8 – 180	180	4.74	14	159.40
440100012798	SINTON® HT-V8 – 200	200	5.14	12	159.40
440100012800	SINTON® HT-V8 – 220	220	5.54	10	159.40
For each 250 mm, or part thereof, above element length 1250 mm					13.80
Special height 230–250 mm					12.00

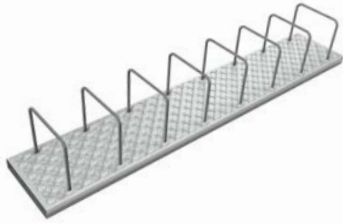
The main body of the page is a large grid of empty table cells, designed for data entry. The grid consists of approximately 25 columns and 40 rows of uniform-sized cells.



# Reinforcement

<b>FERBOX®</b>		<b>PENTAFLEX® module</b>		<b>FIBERNOX®</b>	
FERBOX® type B05	94	PENTAFLEX® module	97	FIBERNOX® V-ROD	102
FERBOX® type B06	95	<b>GRIPRIP®</b>		FIBERNOX® V-ROD bent shapes	102
FERBOX® type E01	96	GRIPRIP®	100	FIBERNOX® V-ROD end anchor	102
FERBOX® type E02	96	GRIPRIP®-S	100	FIBERNOX® V-ROD shear dowels	102
FERBOX® type E03	97	<b>Stainless steel rebar</b>		FIBERNOX® V-ROD rockbolt anchor	102
FERBOX® type EE	97	Stainless steel rebar	101		
FERBOX® type overview	98	Special shapes and structural components	101		

## FERBOX® type B05

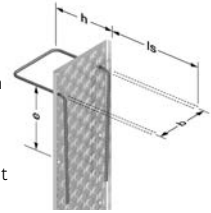


Double-row rebend connection, box, and lid made of galvanized sheet steel, u-shaped reinforcement, foldable brackets, reinforcement steel B500 B.

- Highest category of toothed joints in transverse and longitudinal direction
- According to ETA 20/0842
- Type approval according to ETA and DIN EN 1992-1-1
- Standard lengths: 1200 mm and 800 mm, other lengths available on request

**Order example:**

FERBOX® B05 225 10 150 b200 h170 ls460 L1200



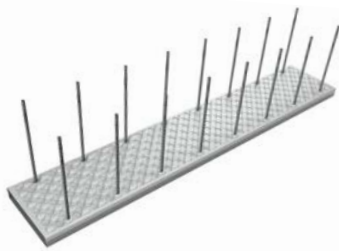
Item number	Type	Dimensions [mm]						Fr. wall width* [mm]	Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
		B	Ø	e	b	h	ls				
512100021969	B05 110 08 150	110	8	150	85	170	320	145	3.96	129.6	27.70
512100021970	B05 110 08 200	110	8	200	85	170	320	145	3.29	129.6	23.10
512100021971	B05 110 10 150	110	10	150	85	170	390	145	5.88	129.6	33.80
512100021972	B05 110 10 200	110	10	200	85	170	390	145	4.73	129.6	27.70
512100021973	B05 110 12 150	110	12	150	85	170	390	145	8.77	129.6	42.60
512100021974	B05 110 12 200	110	12	200	85	170	430	145	6.94	129.6	35.60
512100021975	B05 135 08 100	135	8	100	110	170	320	170	5.71	115.2	38.80
512100021976	B05 135 08 150	135	8	150	110	170	320	170	4.34	115.2	29.20
512100021977	B05 135 08 200	135	8	200	110	170	320	170	3.66	115.2	25.00
512100021978	B05 135 10 100	135	10	100	110	170	360	170	8.65	115.2	50.70
512100021979	B05 135 10 150	135	10	150	110	170	390	170	6.30	115.2	35.30
512100021980	B05 135 10 200	135	10	200	110	170	390	170	5.13	115.2	29.40
512100021981	B05 135 12 100	135	12	100	110	170	360	170	12.39	115.2	65.10
512100021982	B05 135 12 150	135	12	150	110	170	460	170	9.37	115.2	45.50
512100021983	B05 135 12 200	135	12	200	110	170	460	170	7.44	115.2	38.80
512100021984	B05 160 08 100	160	8	100	135	170	320	195	5.96	96	39.70
512100021985	B05 160 08 150	160	8	150	135	170	320	195	4.53	96	30.40
512100021986	B05 160 08 200	160	8	200	135	170	320	195	3.83	96	27.70
512100021987	B05 160 10 100	160	10	100	135	170	390	195	8.91	96	49.10
512100021988	B05 160 10 150	160	10	150	135	170	390	195	6.52	96	37.00
512100021989	B05 160 10 200	160	10	200	135	170	390	195	5.33	96	31.20
512100021990	B05 160 12 100	160	12	100	135	170	430	195	13.56	96	67.10
512100021991	B05 160 12 150	160	12	150	135	170	460	195	9.65	96	47.50
512100021992	B05 160 12 200	160	12	200	135	170	460	195	7.69	96	40.50
512100021993	B05 185 08 100	185	8	100	160	170	320	210	6.26	96	40.90
512100021994	B05 185 08 150	185	8	150	160	170	320	210	4.71	96	30.90
512100021995	B05 185 08 200	185	8	200	160	170	320	210	4.00	96	27.70
512100021996	B05 185 10 100	185	10	100	160	170	390	210	9.15	96	50.60
512100021997	B05 185 10 150	185	10	150	160	170	390	210	6.73	96	37.60
512100021998	B05 185 10 200	185	10	200	160	170	390	210	5.52	96	31.40
512100021999	B05 185 12 100	185	12	100	160	170	430	210	13.89	96	68.60
512100022000	B05 185 12 150	185	12	150	160	170	460	210	9.92	96	48.40
512100022001	B05 185 12 200	185	12	200	160	170	460	210	7.94	96	41.80
512100022002	B05 210 08 100	210	8	100	185	170	320	245	6.39	72	43.00
512100022003	B05 210 08 150	210	8	150	185	170	320	245	4.88	72	32.10
512100022004	B05 210 08 200	210	8	200	185	170	320	245	4.16	72	28.90
512100022005	B05 210 10 100	210	10	100	185	170	390	245	9.38	72	52.70
512100022006	B05 210 10 150	210	10	150	185	170	390	245	6.92	72	38.90
512100022007	B05 210 10 200	210	10	200	185	170	390	245	5.69	72	33.40
512100022008	B05 210 12 100	210	12	100	185	170	460	245	14.18	72	70.90
512100022009	B05 210 12 150	210	12	150	185	170	460	245	10.15	72	49.80
512100022010	B05 210 12 200	210	12	200	185	170	460	245	8.14	72	43.60

\*with cv 30

Item number	Type	Dimensions [mm]						Fr. wall width* [mm]	Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
		B	Ø	e	b	h	ls				
512100022011	B05 235 08 100	235	8	100	210	170	320	270	6.52	57.6	44.60
512100022012	B05 235 08 150	235	8	150	210	170	320	270	5.05	57.6	36.90
512100022013	B05 235 08 200	235	8	200	210	170	320	270	4.31	57.6	34.00
512100022014	B05 235 10 100	235	10	100	210	170	390	270	9.62	57.6	61.10
512100022015	B05 235 10 150	235	10	150	210	170	390	270	7.11	57.6	44.60
512100022016	B05 235 10 200	235	10	200	210	170	390	270	5.87	57.6	38.40
512100022017	B05 235 12 100	235	12	100	210	170	460	270	14.46	57.6	81.10
512100022018	B05 235 12 150	235	12	150	210	170	460	270	10.39	57.6	56.90
512100022019	B05 235 12 200	235	12	200	210	170	460	270	8.35	57.6	50.40
512100022020	B05 260 08 100	260	8	100	235	170	320	295	8.03	43.2	44.30
512100022021	B05 260 08 150	260	8	150	235	170	320	295	6.48	43.2	32.90
512100022022	B05 260 08 200	260	8	200	235	170	320	295	5.70	43.2	30.40
512100022023	B05 260 10 100	260	10	100	235	170	390	295	11.47	43.2	54.50
512100022024	B05 260 10 150	260	10	150	235	170	390	295	8.78	43.2	39.80
512100022025	B05 260 10 200	260	10	200	235	170	390	295	7.43	43.2	34.30
512100022026	B05 260 12 100	260	12	100	235	170	460	295	16.49	43.2	72.40
512100022027	B05 260 12 150	260	12	150	235	170	460	295	12.22	43.2	50.80
512100022028	B05 260 12 200	260	12	200	235	170	460	295	10.08	43.2	45.00

\*with cv 30

## FERBOX® type B06

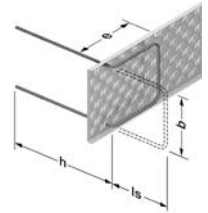


Double-row rebend connection, box, and lid made of galvanized sheet steel, u-shaped reinforcement, fold-out brackets reinforcement steel B500 B, e.g. for connecting precast walls.

- Highest category of toothed joints in transverse and longitudinal direction
- According to ETA 20/0842
- Approved according to ETA and DIN EN 1992-1-1
- Standard lengths: 1200 mm and 800 mm, other lengths available on request

**Order example:**

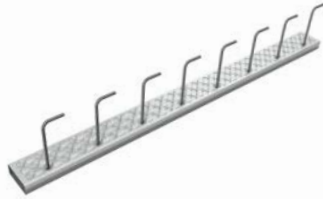
FERBOX® B06 10 150 b60 h330 ls83 L1200



Item number	Type	Dimensions [mm]						Fr. wall width* [mm]	Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
		B	Ø	e	b	h	ls				
512500022071	B06 85 08 150	85	8	150	60	330	83	120	3.22	96	24.60
512500022072	B06 85 08 200	85	8	200	60	330	83	120	2.67	96	22.60
512500022073	B06 85 08 250	85	8	250	60	330	83	120	2.05	96	21.50
512500022074	B06 85 10 150	85	10	150	60	400	83	120	5.03	96	30.90
512500022075	B06 85 10 200	85	10	200	60	400	83	120	4.02	96	27.30
512500022076	B06 85 10 250	85	10	250	60	400	83	120	2.89	96	25.80

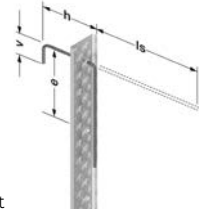
\*with cv 30

## FERBOX® type E01



Single-row rebend connection, box, and lid made of galvanized sheet steel, angled-hook-reinforcement **parallel** to the box, reinforcement steel B 500 B.

- Highest category of toothed joints in transverse and longitudinal direction
- According to ETA 20/0842
- Type approved according to ETA and DIN EN 1992-1-1
- Standard lengths: 1200 mm and 800 mm, other lengths available on request

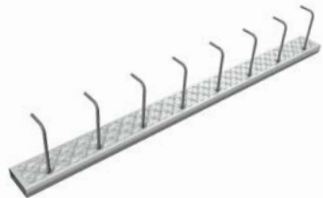


**Order example:**

FERBOX® E01 60 08 150 h170 ls460 L1200

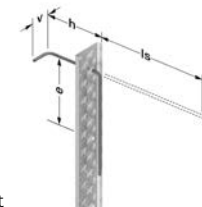
Item number	Type	Dimensions [mm]						Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
		B	ø	e	h	ls	v			
512200022038	E01 85 08 100	85	8	100	170	320	75	2.90	192	20.20
512200022039	E01 60 08 150	60	8	150	170	320	75	1.92	240	16.20
512200022040	E01 60 08 200	60	8	200	170	320	75	1.68	240	14.40
512200022041	E01 60 08 250	60	8	250	170	320	75	1.44	240	14.00
512200022042	E01 85 10 100	85	10	100	170	390	95	4.23	144	24.10
512200022043	E01 60 10 150	60	10	150	170	390	95	2.96	240	19.50
512200022044	E01 60 10 200	60	10	200	170	390	95	2.40	240	17.40
512200022045	E01 60 10 250	60	10	250	170	390	95	2.30	240	16.80
512200022046	E01 85 12 100	85	12	100	170	430	110	6.48	144	30.70
512200022047	E01 85 12 150	85	12	150	170	460	110	4.64	144	25.00
512200022048	E01 85 12 200	85	12	200	170	460	110	3.44	144	21.20
512200022049	E01 85 12 250	85	12	250	170	460	110	3.80	144	19.90

## FERBOX® type E02



Single-row rebend connection, box, and lid made of galvanized sheet steel, angled-hook-reinforcement **perpendicular** to the box, reinforcement steel B 500 B.

- Highest category of toothed joints in transverse and longitudinal direction
- According to ETA 20/0842
- Type approved according to ETA and DIN EN 1992-1-1
- Standard lengths: 1200 mm and 800 mm, other lengths available on request



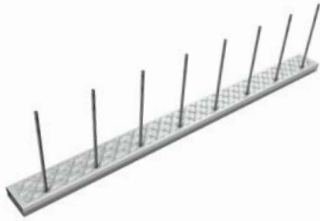
**Order example:**

FERBOX® E02 60 08 150 h170 ls460 L800

Item number	Type	Dimensions [mm]						Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
		B	ø	e	h	ls	v			
512300022050	E02 85 08 100	85	8	100	170	320	95	2.90	192	21.50
512300022051	E02 60 08 150	60	8	150	170	320	95	1.92	240	15.20
512300022052	E02 60 08 200	60	8	200	170	320	95	1.68	240	13.90
512300022053	E02 60 08 250	60	8	250	170	320	95	1.44	240	13.30
512300022054	E02 85 10 100	85	10	100	170	390	95	4.23	144	27.00
512300022055	E02 60 10 150	60	10	150	170	390	95	2.96	240	17.90
512300022056	E02 60 10 200	60	10	200	170	390	95	2.40	240	16.60
512300022057	E02 60 10 250	60	10	250	170	390	95	2.30	240	14.70
512300022058	E02 85 12 100	85	12	100	170	430	110	6.48	144	38.00
512300022059	E02 85 12 150	85	12	150	170	460	110	4.64	144	24.40
512300022060	E02 85 12 200	85	12	200	170	460	110	3.44	144	22.00
512300022061	E02 85 12 250	85	12	250	170	460	110	3.80	144	19.80



## FERBOX® type E03

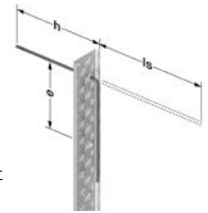


Single-row rebend connection, box, and lid made of galvanized sheet steel, straight rebars, reinforcement steel B 500 B.

- Highest category of toothed joints in transverse and longitudinal direction
- According to ETA 20/0842
- Type approved according to ETA and DIN EN 1992-1-1
- Standard lengths: 1200 mm and 800 mm, other lengths available on request

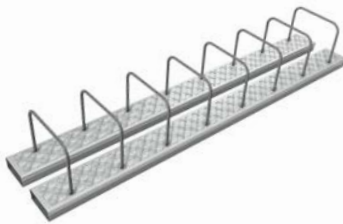
**Order example:**

FERBOX® E03 85 12 150 h460 ls460 L1200



Item number	Type	Dimensions [mm]					Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
		B	Ø	e	h	ls			
512400022062	E03 60 08 150	60	8	150	320	320	2.17	168	15.90
512400022063	E03 60 08 200	60	8	200	320	320	1.76	168	14.10
512400022064	E03 60 08 250	60	8	250	320	320	1.56	168	13.30
512400022065	E03 60 10 150	60	10	150	390	390	3.64	144	18.60
512400022066	E03 60 10 200	60	10	200	390	390	2.86	144	16.40
512400022067	E03 60 10 250	60	10	250	390	390	2.48	144	15.30
512400022068	E03 85 12 150	85	12	150	460	460	6.46	120	24.00
512400022069	E03 85 12 200	85	12	200	460	460	5.15	120	20.60
512400022070	E03 85 12 250	85	12	250	460	460	4.50	120	19.00

## FERBOX® type EE

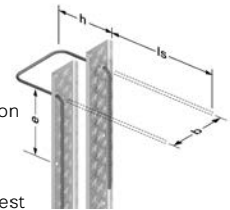


Single-row rebend connection in two separate boxes, boxes and lids made of galvanized sheet steel, **u-shaped** reinforcement, reinforcement steel B 500 B.

- Highest category of toothed joints in transverse and longitudinal direction
- According to ETA 20/0842
- Type approved according to ETA and DIN EN 1992-1-1
- Standard lengths: 1200 mm and 800 mm, other lengths available on request

**Order example:**

FERBOX® EE 60 08 200 h170 ls320 L1200

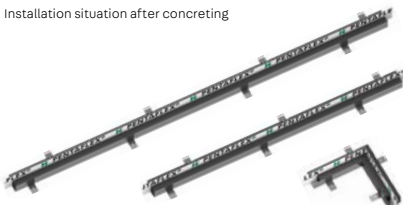


Item number	Type	Dimensions [mm]						Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
		B	Ø	e	h	ls	v			
512600022077	EE 60 08 150	60	8	150	240	170	320	4.84	43.2	30.70
512600022078	EE 60 08 200	60	8	200	240	170	320	4.13	43.2	26.10
512600022079	EE 60 10 150	60	10	150	240	170	390	6.98	43.2	36.30
512600022080	EE 60 10 200	60	10	200	240	170	390	5.73	43.2	33.60
512600022081	EE 85 12 150	85	12	150	240	170	460	9.96	43.2	48.70
512600022082	EE 85 12 200	85	12	200	240	170	460	7.63	43.2	54.60

## PENTAFLEX® module NEU



Installation situation after concreting



PENTAFLEX® module

PENTAFLEX® module for sealing construction joints with continuous shuttering, e.g. between wall and underground car park ramp or between light well and basement wall. The element consists of a storage box and integrated 60 mm wide seam sheet PENTAFLEX KB®. The construction of the module guarantees that the seam sheet is embedded 30 mm into the building components to be connected in accordance with **abP**.

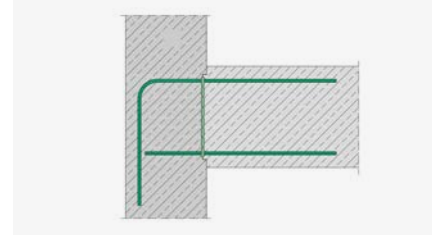
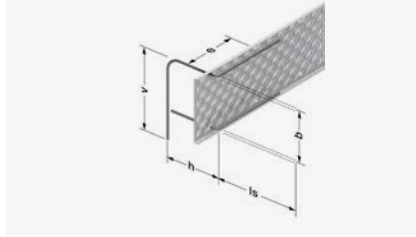
- **Element can be installed together with FERBOX® E types**
- Element lengths: 800 mm or 1200 mm, other lengths on request
- Surcharge for special length + 10 %

Item number		Price per m [€]
110400022083	PENTAFLEX® module 1200 mm	19.70
110400024200	PENTAFLEX® module 800 mm	19.70
Item number		Price per pc. [€]
110400024201	PENTAFLEX® module corner element 200x200	13.75

## FERBOX® type overview

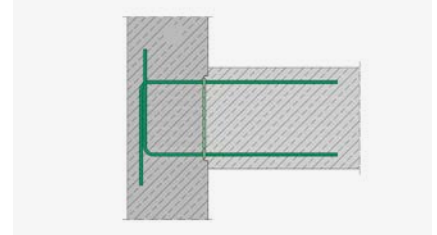
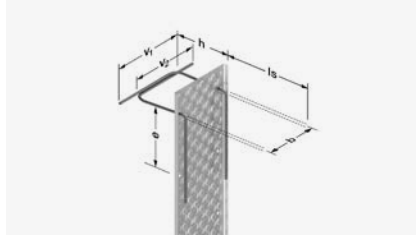
### FERBOX® type B01

Bend h/v: 10 ds

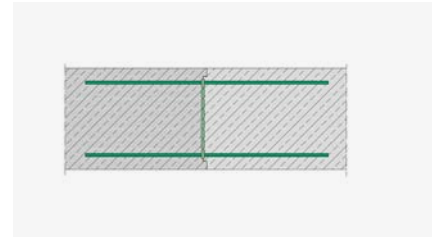
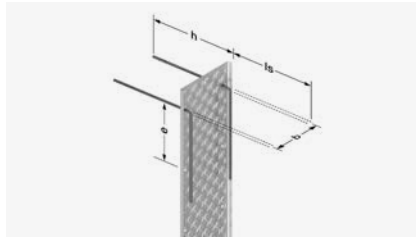


### FERBOX® type B02

Bend h/v: 4ds  
(also available as h/v = 10 ds)

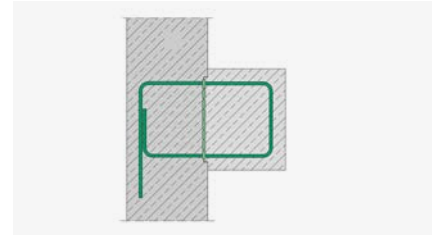
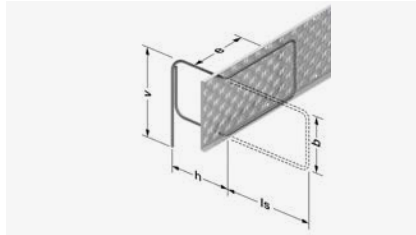


### FERBOX® type B03

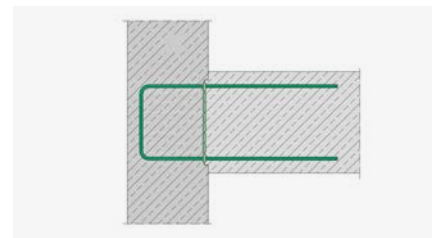
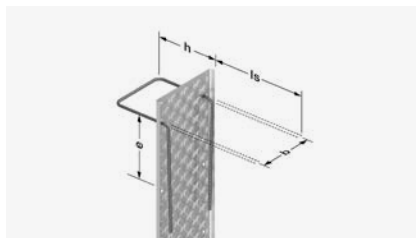


### FERBOX® type B04/B04S\*

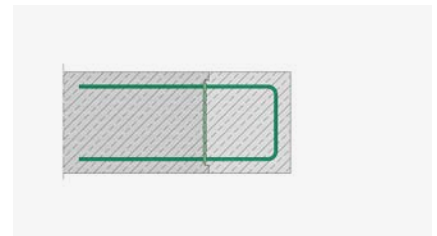
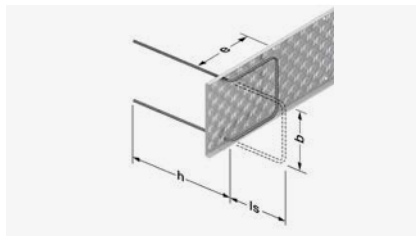
Bend h/v: 4 ds



### FERBOX® type B05

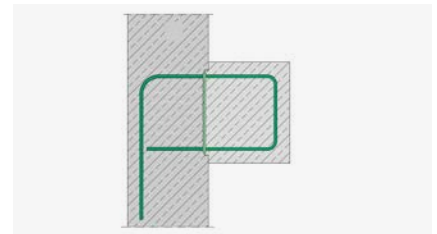
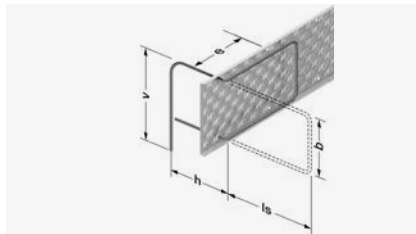


### FERBOX® type B06/B06S\*

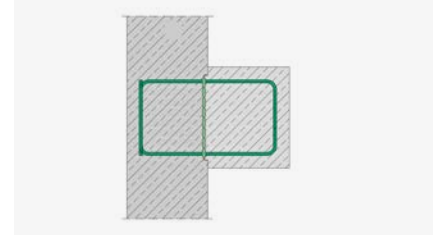
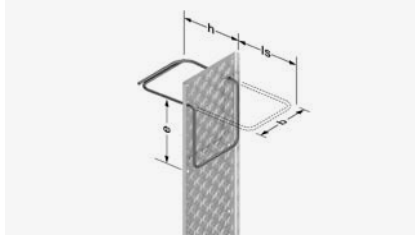


### FERBOX® type B07/B07S\*

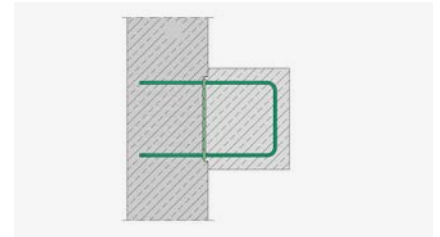
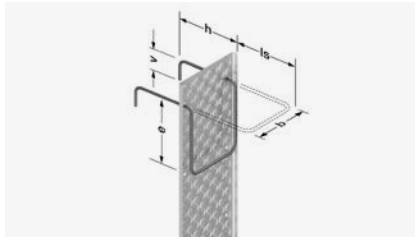
Bend h/v: 10 ds  
(also available as h/v = 4 ds)



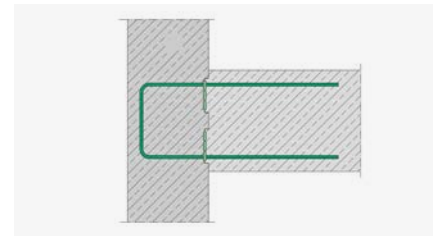
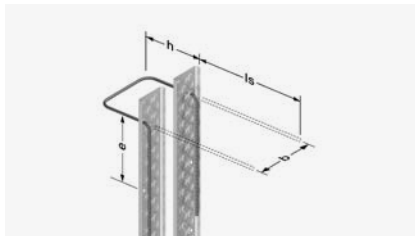
**FERBOX® type B08/B08S\***



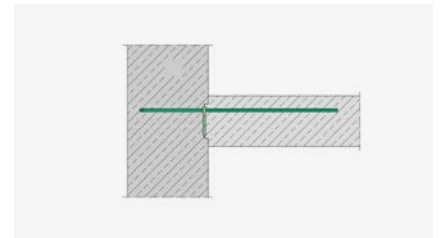
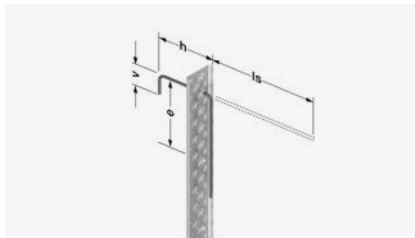
**FERBOX® type B09/B09S\***



**FERBOX® type EE**

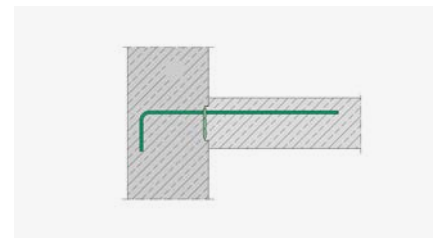
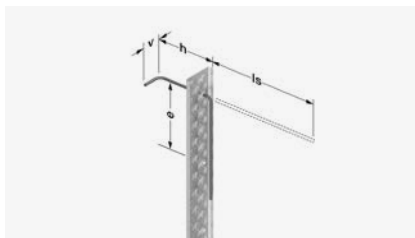


**FERBOX® type E01**

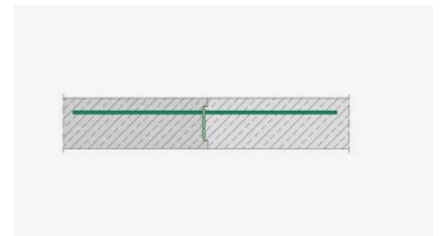
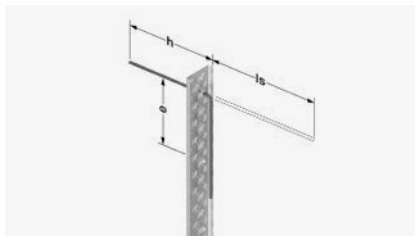


**FERBOX® type E02**

Bend  $h/v$ : 4ds  
(also available as  $h/v = 10 ds$ )



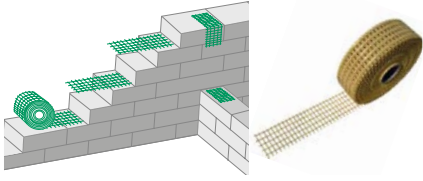
**FERBOX® type E03**



**\*FERBOX® S-types**

For the FERBOX® types B04, B06, B07, B08, and B09, the foldable brackets (ls) with a small reinforcement distance and large ls dimensions have to be bent conically due to production reasons. This can lead to problems in the reinforcement process as well as in the design process. The "S" version allows for the realisation of low bracket distances without the need to bend the brackets conically. Therefore, the rebars are all bend in one direction and the last bracket extends beyond the end of the box.

## GRIPRIP®

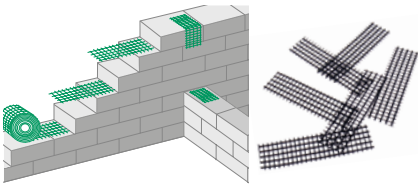


Constructional masonry reinforcement made from aramid woven fabric for thin-bed mortar.

- Other widths available on request

Item number	Type	Width [mm]	Weight [kg/100 m]	Packaging unit [m/roll]	Price per m [€]
540100002399	A 1	85	2.10	100	3.10
540100002393	A 1.1	150	3.60	100	5.60
540100002394	A 2	170	4.00	100	6.20
540100002395	A 2.1	200	4.40	100	7.20
540100002396	A 3	240	5.60	100	8.70
540100002397	A 3.1	300	6.90	100	11.00
540100002398	A 4	340	8.25	100	12.40

## GRIPRIP®-S



Constructional masonry reinforcement made from aramid woven fabric for butt joint anchoring at thin-bed mortar.

- Other lengths available on request

Item number	Element length [mm]	Width [mm]	Weight [kg/100 pcs]	Packaging unit [pack/box]	Price per 100 pcs [€]
540200002402	300	85	0.27	100 / 2000	66.20

## Stainless steel rebar tool steel no. 1.4571 with approval



Stainless steel material number 1.4571, antimagnetic, weldable  
The weight is dependent on the particular batch. The actual weight delivered is used in the calculation.

- The prices apply with the addition of the alloy surcharge valid on the day of delivery

Item number	Dia. [mm]	Approx. weight [kg/m]	Price per kg [€]
520100014941	6	0.22	10.40
520100014944	8	0.40	10.40
520100014947	10	0.62	10.40
520100014950	12	0.89	10.40
520100014953	14	1.21	10.40

## Stainless steel rebar tool steel no. 1.4482 with approval



The weight is dependent on the particular batch. The actual weight delivered is used in the calculation.

- The prices apply with the addition of the alloy surcharge valid on the day of delivery

Item number	Dia. [mm]	Approx. weight [kg/m]	Price per kg [€]
520700014943	6	0.22	On request
520700014946	8	0.40	On request
520700014949	10	0.62	On request
520700014952	12	0.89	On request

## Stainless steel rebar tool steel no. 1.4362/1.4462



The weight is dependent on the particular batch. The actual weight delivered is used in the calculation.

- The prices apply with the addition of the alloy surcharge valid of the day of delivery
- Other tool steel numbers available on request
- Without approval

Item number	Dia. [mm]	Tool steel no.	Approx. weight [kg/m]	Price per kg [€]
520700014940	4	1.4362	0.10	On request
520700014954	16	1.4362	1.58	On request
520700014955	20	1.4362	2.47	On request
520700014956	25	1.4362	3.85	On request
520100014933	32	1.4462	6.31	On request
520100014934	40	1.4462	9.92	On request

## Special shapes and structural components



Virtually any shape or structure is possible. We manufacture according to your sketch.  
Please send us your enquiry.

- Approved bending service
- Externally monitored by the Nord-Rhein-Westfalen Materials Testing Office [MPA NRW]

## FIBERNOX® V-ROD



FIBERNOX® V-ROD is a high-quality reinforcement rod made of fibre-reinforced composite and designed for maximum strength and durability. The glass-fibre reinforcement is characterised by corrosion and alkali resistance, a very high tensile strength with a low weight, resistance against magnetic influence, and thermal insulating qualities.

- Modulus of elasticity 60.000 N/mm<sup>2</sup>
- Guaranteed tensile strength 1.000 N/mm<sup>2</sup>
- Other diameters and lengths on request

Item number	Type	Dia. [mm]	Stock length [mm]	Weight [kg/m]	Nominal cross-sectional area [mm <sup>2</sup> ]	Price per m [€]
530100019551	V-ROD 60	6	11900	0.07	28.3	2.50
530100019553	V-ROD 60	8	11900	0.12	50.3	2.80
530100019554	V-ROD 60	10	11900	0.18	78.5	4.20
530100019555	V-ROD 60	12	11900	0.26	113.1	5.50
530100019556	V-ROD 60	16	11900	0.45	201.1	7.70
530100019557	V-ROD 60	20	11900	0.70	314.2	11.40
530100019559	V-ROD 60	25	11900	1.09	490.9	17.10
530100019560	V-ROD 60	32	11900	1.78	804.2	25.70

## FIBERNOX® V-ROD bent shapes



We manufacture according to your sketch.

- Various shapes of stirrups and coils are possible
- Modulus of elasticity 50.000 N/mm<sup>2</sup>
- Guaranteed tensile strength 450 N/mm<sup>2</sup> (in the bent section)
- Guaranteed tensile strength 1000 N/mm<sup>2</sup> (in the straight section)
- Bent rods are available in diameters of 6, 10, 12, 16, 20, 25, and 32 mm

## FIBERNOX® V-ROD end anchor



Reinforcement rods with end anchors are available in diameters of 12, 16, 20, and 32 mm.

## FIBERNOX® V-ROD shear dowels



- With a smooth surface for shear force transmission
- Available in diameters of 25 to 45 mm

## FIBERNOX® V-ROD rockbolt anchor



Glass fibre rock anchor for tunnel construction and rock stabilisation, available in diameters of 20, 22, 25, 29, and 32 mm.

- Complete system available with pressure plate and nut







# Connection

## Shear dowels

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Shear dowel type HED-S	106
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Shear dowel type HED-P	106
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## Fire protection

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Fire protection sleeves	107
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## Slide sleeves

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Slide sleeve type GK	108
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Slide sleeve type GS	108
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Slide sleeve type GSQ	109
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## Shear dowel type HED-S



Single shear dowel for transmitting shearing forces around expansion joints. R 90 version using fire protection sleeve.

In the following steel grades ex stock:

- S355 galvanised
- V4A, corrosion protection class III
- Corrosion protection class IV and other diameters and lengths available on request

Item number	Type	Dimensions [mm] Diam. x L	Material/Version	Weight [kg/pc.]	Price per pc. [€]
550100003857	HED-S 20/300	20 x 300	S355 Galvanised	0.75	4.30
550100003856	HED-S 20/300	20 x 300	V4A Corrosion protection class III	0.75	9.10
550100003855	HED-S 20/500	20 x 500	S355 Galvanised	1.25	6.20
550100003854	HED-S 20/500	20 x 500	V4A Corrosion protection class III	1.25	14.30
550100003863	HED-S 22/300	22 x 300	S355 Galvanised	0.90	4.90
550100003862	HED-S 22/300	22 x 300	V4A Corrosion protection class III	0.90	9.90
550100003861	HED-S 22/500	22 x 500	S355 Galvanised	1.50	7.30
550100003860	HED-S 22/500	22 x 500	V4A Corrosion protection class III	1.50	15.60
550100003869	HED-S 25/300	25 x 300	S355 Galvanised	1.15	5.60
550100003868	HED-S 25/300	25 x 300	V4A Corrosion protection class III	1.15	13.40
550100003867	HED-S 25/500	25 x 500	S355 Galvanised	1.95	8.40
550100003866	HED-S 25/500	25 x 500	V4A Corrosion protection class III	1.95	21.50
550100003875	HED-S 30/350	30 x 350	S355 Galvanised	1.95	9.00
550100003874	HED-S 30/350	30 x 350	V4A Corrosion protection class III	1.95	19.90
550100003873	HED-S 30/500	30 x 500	S355 Galvanised	2.80	12.30
550100003872	HED-S 30/500	30 x 500	V4A Corrosion protection class III	2.80	27.90

## Shear dowel type HED-P



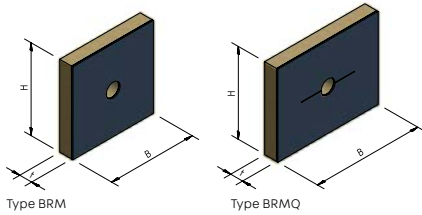
Single shear dowel for transmitting shearing forces around expansion joints. Dowel plastified on one side with spring element. R 90 version using fire protection sleeve.

In the following steel grades ex stock:

- S355 galvanised
- V4A, corrosion protection class III
- Corrosion protection class IV and other diameters and lengths available on request

Item number	Type	Element length [mm]	Surcharge per pc. for HED-S [€]
550200003828	HED-P 20/300	300	4.00
550200003829	HED-P 20/500	500	4.70
550200003834	HED-P 22/300	300	4.00
550200003835	HED-P 22/500	500	4.70
550200003840	HED-P 25/300	300	4.00
550200003841	HED-P 25/500	500	4.70
550200003846	HED-P 30/350	350	4.00
550200003847	HED-P 30/500	500	4.70

## Fire protection sleeves for HED-P / HED-S



R 90 fire protection sleeve for the HED single shear dowel.

In case of fire, the fire-protection sleeve expands itself and closes the joint completely.

- R 90 classification
- For larger joint openings, two BRM must be used

Item number	Type	Dimensions H x W [mm]	Thickness t [mm]	Max. joint opening f [mm]	Weight [kg/pc.]	To be used with	Price per pc. [€]
550300002477	BRM-20-20	122x 122	20	30	0.09	GK + GS 20	6.80
550300002480	BRM-22-20	122x 122	20	30	0.09	GK + GS 22	6.80
550300002486	BRM-25-20	122x 122	20	30	0.09	GK + GS 25	6.80
550300002492	BRM-30-20	122x 122	20	30	0.09	GK + GS 30	6.80
550300002478	BRM-20-30	122x 122	30	40	0.11	GK + GS 20	7.40
550300002481	BRM-22-30	122x 122	30	40	0.11	GK + GS 22	7.40
550300002487	BRM-25-30	122x 122	30	40	0.11	GK + GS 25	7.40
550300002493	BRM-30-30	122x 122	30	40	0.11	GK + GS 30	7.40
550300002479	BRM-20-40	122x 122	40	50	0.14	GK + GS 20	7.90
550300002482	BRM-22-40	122x 122	40	50	0.14	GK + GS 22	7.90
550300002488	BRM-25-40	122x 122	40	50	0.14	GK + GS 25	7.90
550300002494	BRM-30-40	122x 122	40	50	0.14	GK + GS 30	7.90
550300002495	BRMQ-20-20	152x 122	20	30	0.11	GSQ 20	8.20
550300002498	BRMQ-22-20	152x 122	20	30	0.11	GSQ 22	8.20
550300002501	BRMQ-25-20	152x 122	20	30	0.11	GSQ 25	8.20
550300002504	BRMQ-30-20	152x 122	20	30	0.11	GSQ 30	8.20
550300002496	BRMQ-20-30	152x 122	30	40	0.14	GSQ 20	8.50
550300002499	BRMQ-22-30	152x 122	30	40	0.14	GSQ 22	8.50
550300002502	BRMQ-25-30	152x 122	30	40	0.14	GSQ 25	8.50
550300002505	BRMQ-30-30	152x 122	30	40	0.14	GSQ 30	8.50
550300002497	BRMQ-20-40	152x 122	40	50	0.17	GSQ 20	9.10
550300002500	BRMQ-22-40	152x 122	40	50	0.17	GSQ 22	9.10
550300002503	BRMQ-25-40	152x 122	40	50	0.17	GSQ 25	9.10
550300002506	BRMQ-30-40	152x 122	40	50	0.17	GSQ 30	9.10

## Slide sleeve type GK

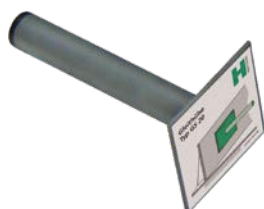


Plastic slide sleeve for shear dowel type HED-S. Permits longitudinal movement of the dowels in the slide sleeve.

- Other lengths available on request (max l = 320 mm)

Item number	Type	Material	Element length [mm]	For shear dowel type	Box [pcs]	Weight [kg/pc.]	Price per pc. [€]
550500004970	GK 20/160	Plastic	160	HED-S 20/300	250	0.035	3.00
550500004971	GK 20/265	Plastic	265	HED-S 20/500	150	0.060	3.30
550500004973	GK 22/160	Plastic	160	HED-S 22/300	200	0.040	3.30
550500004974	GK 22/265	Plastic	265	HED-S 22/500	125	0.065	3.70
550500004976	GK 25/160	Plastic	160	HED-S 25/300	200	0.050	3.90
550500004977	GK 25/265	Plastic	265	HED-S 25/500	125	0.085	4.00
550500004979	GK 30/185	Plastic	185	HED-S 30/350	150	0.055	4.60
550500004980	GK 30/265	Plastic	265	HED-S 30/500	100	0.090	5.00

## Slide sleeve type GS



V4A slide sleeve for shear dowel type HED-S. Permits longitudinal movement of the dowels in the slide sleeve.

- Other lengths available on request

Item number	Type	Material	Element length [mm]	For shear dowel type	Weight [kg/pc.]	Price per pc. [€]
550600012748	GS 20/160	V4A	160	HED-S 20/300	0.37	14.00
550600012749	GS 20/265	V4A	265	HED-S 20/500	0.61	15.90
550600012750	GS 22/160	V4A	160	HED-S 22/300	0.38	16.10
550600012751	GS 22/265	V4A	265	HED-S 22/500	0.63	18.00
550600012752	GS 25/160	V4A	160	HED-S 25/300	0.42	21.00
550600012753	GS 25/265	V4A	265	HED-S 25/500	0.69	25.10
550600012754	GS 30/185	V4A	185	HED-S 30/350	0.48	21.60
550600012755	GS 30/265	V4A	265	HED-S 30/500	0.79	23.60

## Slide sleeve type GSQ



V4A slide sleeve for shear dowel type HED-S. Permits longitudinal and transverse movement of the dowels in the slide sleeve.

- Other lengths available on request

Item number	Type	Material	Element length [mm]	For shear dowel type	Weight [kg/pc.]	Price per pc. [€]
550700012757	GSQ 20/180	V4A	180	HED-S 20/300	0.82	24.30
550700012758	GSQ 20/265	V4A	265	HED-S 20/500	1.20	29.50
550700012759	GSQ 22/180	V4A	180	HED-S 22/300	0.84	28.70
550700012760	GSQ 22/265	V4A	265	HED-S 22/500	1.24	35.90
550700012761	GSQ 25/180	V4A	180	HED-S 25/300	0.91	34.10
550700012762	GSQ 25/265	V4A	265	HED-S 25/500	1.34	44.50
550700012763	GSQ 30/205	V4A	205	HED-S 30/350	1.26	37.70
550700012764	GSQ 30/265	V4A	265	HED-S 30/500	2.08	44.80



# Accessories

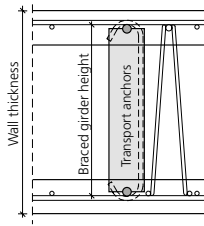
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## Double-wall transport anchor KE III type A



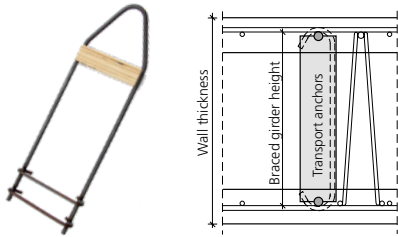
PÜZ-tested transport anchor for double walls.

- PÜZ-monitored
- Other dimensions on request

Item number	Type	Minimum wall thickness [mm]	Braced girder height [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
610100012808	KE III-120	170	120	1.34	350	On request
610100012811	KE III-130	180	130	1.36	350	On request
610100012815	KE III-140	190	140	1.39	350	On request
610100012818	KE III-150	200	150	1.42	350	On request
610100012822	KE III-160	210	160	1.45	300	On request
610100012825	KE III-170	220	170	1.47	300	On request
610100012829	KE III-180	230	180	1.59	300	On request
610100012832	KE III-190	240	190	1.62	300	On request
610100012836	KE III-200	250	200	1.65	250	On request
610100012839	KE III-210	260	210	1.68	200	On request
610100012842	KE III-220	270	220	1.70	200	On request
610100012845	KE III-230	280	230	1.73	200	On request
610100012848	KE III-240	290	240	1.76	200	On request
610100012852	KE III-250	300	250	1.88	200	On request
610100012855	KE III-260	310	260	1.91	200	On request
610100012858	KE III-270	320	270	1.93	150	On request
610100012861	KE III-280	330	280	1.96	100	On request
610100012864	KE III-290	340	290	1.99	100	On request
610100012867	KE III-300	350	300	2.02	100	On request
610100012870	KE III-310	360	310	2.04	100	On request
610100012873	KE III-320	370	320	2.07	100	On request
610100012876	KE III-330	380	330	2.10	100	On request
610100012879	KE III-340	390	340	2.13	100	On request
610100012882	KE III-350	400	350	2.16	100	On request



## Double-wall transport anchor KE IV type A

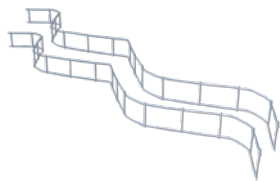


PÜZ-tested transport anchor for double walls with special requirements.

- PÜZ-monitored
- Other dimensions on request

Item number	Type	Minimum wall thickness [mm]	Braced girder height [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
610200012892	KE IV-120	170	120	2.90	250	On request
610200012894	KE IV-130	180	130	2.96	250	On request
610200012896	KE IV-140	190	140	2.99	200	On request
610200012898	KE IV-150	200	150	3.01	200	On request
610200012900	KE IV-160	210	160	3.04	200	On request
610200012902	KE IV-170	220	170	3.26	200	On request
610200012904	KE IV-180	230	180	3.28	200	On request
610200012906	KE IV-190	240	190	3.31	150	On request
610200012908	KE IV-200	250	200	3.34	150	On request
610200012910	KE IV-210	260	210	3.37	150	On request
610200012912	KE IV-220	270	220	3.40	150	On request
610200012914	KE IV-230	280	230	3.43	150	On request
610200012916	KE IV-240	290	240	3.46	150	On request
610200012918	KE IV-250	300	250	3.68	150	On request
610200012920	KE IV-260	310	260	3.71	100	On request
610200012922	KE IV-270	320	270	3.74	100	On request
610200012924	KE IV-280	330	280	3.77	100	On request
610200012926	KE IV-290	340	290	3.80	100	On request
610200012928	KE IV-300	350	300	3.83	100	On request
610200012930	KE IV-310	360	310	3.97	100	On request
610200012932	KE IV-320	370	320	4.00	100	On request
610200012934	KE IV-330	380	330	4.03	100	On request
610200012936	KE IV-340	390	340	4.06	100	On request
610200012938	KE IV-350	400	350	4.09	100	On request

## Snake-shaped spacer

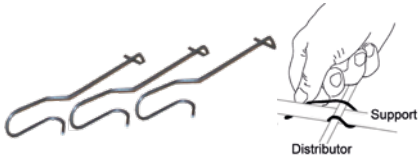


Steel snake-shaped supporting cage as spacer between lower and upper reinforcement layer.

- Support length approx. 2000 mm
- Certified according to DBV bulletin "Supports"
- Certified version for height (h) 30–110 mm available on request
- Large bundles are subdivided into 200 pieces and these into 25 pieces per bundle

Item number	Height [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Construction	Price per pc. [€]
640100005145	30	0.335	2000	Not certified	1.70
640100005151	40	0.345	2000	Not certified	1.70
640100005153	50	0.355	1500	Not certified	1.80
640100005154	60	0.365	1500	Not certified	1.90
640100005155	70	0.431	1000	Not certified	2.10
640100005156	80	0.441	1000	Not certified	2.20
640100005157	90	0.451	1000	Not certified	2.30
640100005129	100	0.461	900	Not certified	2.40
640100005130	110	0.471	800	Not certified	2.40
640100005131	120	0.537	700	Certified	2.60
640100005132	130	0.616	600	Certified	3.00
640100005133	140	0.630	600	Certified	3.10
640100005134	150	0.644	600	Certified	3.20
640100005135	160	0.705	500	Certified	3.30
640100005136	170	0.778	500	Certified	4.00
640100005137	180	0.795	500	Certified	4.00
640100005138	190	0.813	500	Certified	4.10
640100005140	200	0.830	400	Certified	4.10
640100005141	220	0.949	400	Certified	4.80
640100005142	240	0.977	300	Certified	5.20
640100005143	260	1.075	300	Certified	5.80
640100005144	280	1.103	300	Certified	6.10
640100005146	300	1.132	300	Certified	6.20
640100005147	320	1.336	300	Certified	7.00
640100005148	340	1.496	200	Certified	7.30
640100005149	360	1.538	200	Certified	7.50
640100005150	380	1.580	200	Certified	7.60
640100005152	400	1.622	200	Certified	8.00

## Spring-steel ties



Spring-steel ties for connecting reinforcing steel.

- Other dimensions on request

Item number	Type	Distributor dia. [mm]	Support dia. [mm]	Spring steel dia. [mm]	Weight [kg/1000]	Packaging units [boxes/pal.]	Price per 1000 pcs [€]
640200005170	8/8	6–8	6–8	1.6	2.00	14,400/230,400	25.90
640200005163	8/10	6–8	8–10	1.6	2.40	12,600/201,600	27.90
640200005164	8/12	6–10	10–12	1.6	2.45	10,800/172,800	31.20
640200005165	8/12	6–10	10–12	1.8	3.00	9900/158,400	31.20
640200005166	8/14	6–8	12–14	1.8	3.10	9450/151,200	31.80
640200005167	8/16	6–10	14–16	1.8	3.20	8100/129,600	32.00
640200005168	8/20	6–10	18–20	1.8	3.70	7200/115,200	36.30

## Fibre-reinforced concrete surface spacer triangle



Triangular surface spacer made of fibre-reinforced concrete for horizontal mesh and round steel reinforcement.

Tested in accordance with DBV bulletin "Spacers" for resistance to freeze and thaw cycles, water ingress depth, tilt stability, and compressive strength.

- Colour surcharge and other dimensions available on request

Type triangle, element length approx. 1000 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
620100003489	20	0.70	1300	0.90
620100003490	25	0.80	1000	0.90
620100003491	30	1.00	800	1.10
620100003492	35	1.50	700	1.30
620100003493	40	1.90	500	1.50
620100003494	45	2.20	450	1.80
620100003495	50	3.00	350	2.00
620100003496	55	3.50	300	2.40
620100003497	60	4.40	280	2.70
620100022994	65	5.20	240	3.10
620100003498	70	6.00	200	3.40
620100022995	75	7.00	180	3.80

## Fibre-reinforced concrete surface spacer triangle snake shape triangle snake shape



Snake-shaped triangular surface spacer made of fibre-reinforced concrete for horizontal mesh and round steel reinforcement.

Tested in accordance with DBV bulletin "Spacers" for resistance to freeze and thaw cycles, water ingress depth, tilt stability, and compressive strength.

- Colour surcharge and other dimensions available on request

Type triangle snake shape, element length approx. 1000 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
620100003581	20	0.70	1100	0.90
620100003584	25	0.70	1000	1.10
620100003587	30	0.90	900	1.10
620100003590	35	1.10	750	1.30
620100003594	40	1.20	600	1.40
620100003597	45	1.60	500	1.70
620100003601	50	2.20	400	1.90
620100003604	55	2.30	350	2.10
620100003607	60	2.60	350	2.40
620100022996	65	2.90	300	2.70
620100003610	70	3.40	280	3.40
620100022997	75	3.90	250	3.70

Type triangle snake shape, element length approx. 800 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
620100003583	25	0.60	1400	0.80
620100003586	30	0.70	1250	0.90
620100003589	35	0.80	1100	1.00
620100003593	40	1.00	800	1.10
620100003596	45	1.30	700	1.40
620100003600	50	1.70	600	1.50
620100003603	55	1.80	550	1.70
620100022998	60	1.90	500	1.90
620100022999	65	2.30	400	2.20
620100023000	70	2.70	350	2.70
620100023001	75	3.10	300	3.00

## Fibre-reinforced concrete surface spacer triangle snake shape with nubs



Snake-shaped triangular surface spacer made of fibre-reinforced concrete with small contact area for horizontal mesh and round steel reinforcement.

Tested in accordance with DBV bulletin "Spacers" for resistance to freeze and thaw cycles, water ingress depth, tilt stability, and compressive strength.

- Colour surcharge and other dimensions available on request

Type triangle snake shape with nubs, element length approx. 1000 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
620100003612	20	0.70	1100	0.90
620100003614	25	0.70	1000	1.10
620100003616	30	0.90	900	1.10
620100003619	35	1.10	750	1.30
620100003621	40	1.20	600	1.40
620100003624	45	1.60	500	1.70
620100003627	50	2.20	400	1.90
620100003630	55	2.30	350	2.10
620100003633	60	2.60	350	2.40
620100023002	65	2.90	300	2.70
620100003636	70	3.40	280	3.40
620100003638	75	3.90	250	3.70

Type triangle snake shape with nubs, element length approx. 500 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
620100023003	25	0.60	1400	0.80
620100018865	30	0.70	1250	0.90
620100018866	35	0.80	1100	1.00
620100018867	40	1.00	800	1.10
620100023004	45	1.30	700	1.40
620100018604	50	1.70	600	1.50
620100023005	55	1.80	550	1.70
620100023006	60	1.90	500	1.90
620100023007	65	2.30	400	2.20
620100023008	70	2.70	350	2.70
620100023009	75	3.10	300	3.00

## Fibre-reinforced concrete surface spacer triangle curve triangle curve



Curved triangular surface spacer made of fibre-reinforced concrete for horizontal mesh and round steel reinforcement.

Tested in accordance with DBV bulletin "Spacers" for resistance to freeze and thaw cycles, water ingress depth, tilt stability, and compressive strength.

- Colour surcharge and other dimensions available on request

Type triangle curve, element length approx. 330 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
62010003464	20	0.23	3000	0.40
62010003465	25	0.26	2500	0.40
62010003466	30	0.36	2000	0.50
62010003467	35	0.43	1500	0.50
62010003468	40	0.55	1500	0.60
62010003469	45	0.64	1000	0.70
62010003470	50	0.77	1000	0.70
62010003471	55	0.92	800	0.80
62010003472	60	0.99	800	0.90

Type triangle curved with nubs, element length approx. 330 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
62010003474	20	0.25	3000	0.40
62010003476	25	0.28	2500	0.40
62010003478	30	0.38	2000	0.50
62010003480	35	0.46	1500	0.50
62010003482	40	0.58	1500	0.60
62010003484	45	0.66	1000	0.70
62010003486	50	0.80	1000	0.70
62010003487	55	0.97	800	0.80
62010003488	60	1.06	800	0.90

## Fibre-reinforced concrete surface spacer triangle hook



Triangular surface spacer made of fibre-reinforced concrete with hook for vertical reinforcement. Tested in accordance with DBV bulletin "Spacers" for resistance to freeze and thaw cycles, water ingress depth, tilt stability, and compressive strength.

- Colour surcharge and other dimensions available on request

Type triangle hook, element length approx. 330 mm



Item number	Concrete cov. [mm]	Clamp range [mm]	Weight [kg/pc.]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per pc. [€]
620100003507	25	6-12	0.25	75	3000	0.60
620100003511	30	6-12	0.28	75	3000	0.60
620100003515	35	6-12	0.38	60	2400	0.70
620100003519	40	6-12	0.45	50	2000	0.70
620100003523	45	6-12	0.50	40	1600	0.80
620100003527	50	6-12	0.70	32	1280	0.90
620100003531	55	6-12	0.90	25	1000	1.00
620100003535	60	6-12	1.00	25	1000	1.20
620100023010	65	6-12	1.10	20	800	1.30
620100003539	70	6-12	1.15	20	800	1.30
620100023011	75	6-12	1.25	18	700	1.50

Type triangle hook, element length approx. 180 mm



Item number	Concrete cov. [mm]	Clamp range [mm]	Weight [kg/pc.]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per pc. [€]
620100003500	20	6-12	0.15	125	10000	0.50
620100003505	25	6-12	0.16	125	5000	0.50
620100003509	30	6-12	0.18	125	5000	0.50
620100003513	35	6-12	0.20	100	4000	0.60
620100003517	40	6-12	0.30	100	4000	0.60
620100003521	45	6-12	0.32	80	3200	0.60
620100003525	50	6-12	0.43	50	2000	0.70
620100003529	55	6-12	0.45	45	1800	0.80
620100003533	60	6-12	0.50	40	1600	0.80
620100023012	65	6-12	0.55	40	1500	0.90
620100003537	70	6-12	0.60	30	1300	1.00
620100023013	75	6-12	0.70	25	1000	1.10



## Fibre-reinforced concrete surface spacer square



Square surface spacer made of fibre-reinforced concrete for heavy horizontal mesh and round steel reinforcement.

Tested in accordance with DBV bulletin "Spacers" for resistance to freeze and thaw cycles, water ingress depth, tilt stability, and compressive strength.

- Colour surcharge and other dimensions available on request

Type square, element length approx. 1000 mm



Item number	Concrete covering [mm]	Weight [kg/pc.]	Packaging unit [pcs/pal.]	Price per pc. [€]
62010003647	25	1.20	1000	1.40
62010003650	30	1.80	750	1.70
62010003653	35	2.50	500	2.20
62010003656	40	3.70	400	2.70
62010003661	45	4.30	350	3.20
62010003663	50	5.00	300	3.70
62010003667	55	6.00	200	4.40
62010003669	60	7.00	150	5.30
620100023014	65	7.50	150	5.70
62010003671	70	10.00	100	7.20
62010003673	75	11.50	100	7.40
62010003675	80	15.00	80	8.90
620100023015	85	17.50	65	10.30
620100023016	90	18.50	60	11.00
620100023017	95	19.40	55	12.10
62010003642	100	21.50	50	13.40

## Concrete spacer type KD



Single spacer with small contact area made of fibre-reinforced concrete with wire for fastening to horizontal and vertical reinforcement.  
Can be used for three different concrete coverings.

Item number	Concrete cov. [mm]	Weight [kg/1000 pcs]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per 1000 pcs [€]
620200003726	20/25/30	40.00	250	25000	106.40
620200003727	35/40/50	100.00	100	10000	158.00
620200003729	45/55/60	180.00	50	5000	241.00

## Concrete spacer type KO



Single spacer with small contact area made of fibre-reinforced concrete for horizontal reinforcement layers.  
Can be used for three different concrete coverings.

Item number	Concrete cov. [mm]	Weight [kg/1000 pcs]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per 1000 pcs [€]
620200003730	20/25/30	40.00	250	25000	64.30
620200003731	35/40/50	100.00	100	10000	121.30
620200003733	45/55/60	170.00	50	5000	201.80

## Concrete spacer type TFD



Single spacer made of cast concrete with galvanised wire for fixing to horizontal and vertical reinforcement.

Item number	Concrete cov. [mm]	Weight [kg/1000 pcs]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per 1000 pcs [€]
620200003763	20	51.25	240	8640	80.00
620200003764	25	66.70	240	8640	84.50
620200003765	30	88.00	240	8640	93.70
620200003766	35	97.50	160	5760	117.70
620200003767	40	121.00	160	5760	125.70
620200003769	45	131.25	160	5760	142.90
620200003770	50	148.00	160	4800	148.60
620200003771	60	186.00	128	3840	189.70

## Concrete spacer type PRT



Single spacer with small contact area made of cast concrete with plastic clip for fastening to the reinforcement. No metal or wire parts in the concrete cover.

Tested according to DBV leaflet "Spacers" for frost and thaw resistance, water penetration depth, tilt stability and compressive strength.

Item number	Concrete cov. [mm]	Weight [kg/1000 pcs]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per 1000 pcs [€]
620200019868	15	25.00	800	50.400	147.10
620200019869	20	42.00	500	20.000	153.80
620200019870	25	62.00	400	25.200	166.10
620200019871	30	78.00	300	30.000	184.00
620200019872	35	94.00	250	27.500	206.30
620200019873	40	110.00	200	10.000	217.40

## Concrete spacer type PT/X



Single spacer with small contact area made of cast concrete with plastic clip for fastening to the reinforcement. No metal or wire parts in the concrete cover.

Item number	Concrete cov. [mm]	Weight [kg/1000 pcs]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per 1000 pcs [€]
620200019079	20	42.50	480	14400	108.20
620200019080	25	45.00	480	14400	126.00
620200019081	30	53.00	360	12960	134.90
620200019082	35	63.00	360	12960	152.80
620200019083	40	74.00	240	8640	177.20
620200019084	45	92.00	240	8640	198.50
620200019085	50	104.00	192	6912	216.30
620200023019	55	124.00	192	6912	228.00

## Concrete spacer type PT/S



Single spacer with small contact area made of cast concrete with plastic clip for fastening to the reinforcement. No metal or wire parts in the concrete cover.

Tested according to DBV leaflet "Spacers" for frost and thaw resistance, water penetration depth, tilt stability and compressive strength.

Item number	Concrete cov. [mm]	Weight [kg/1000 pcs]	Pack. unit [pcs/sack]	Pack. unit [pcs/pal.]	Price per 1000 pcs [€]
620200019874	15	34.00	800	20000	147.10
620200019875	20	46.00	500	35000	153.80
620200019876	25	54.00	400	100000	166.10
620200019877	30	73.00	325	100100	184.00
620200019878	35	90.00	250	12000	206.20
620200019879	40	111.00	200	47600	217.40
620200019880	45	131.00	175	22575	234.20
620200019881	50	130.00	175	25025	250.80
620200019882	55	143.00	150	17550	269.90
620200019883	60	152.00	150	7500	289.80

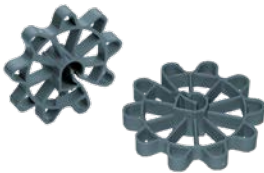
## Clamping spacer type DR



Plastic with small contact area for various iron diameters for securing to horizontal reinforcement.  
Good concrete flow.

Item number	Concrete covering [mm]	Clamp range [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
630200005187	15	5–14	3.60	1000	5000	100.000	24.50
630200005188	20	5–14	4.00	500	2500	50.000	25.60
630200005189	25	5–14	4.40	500	2500	50.000	29.10
630200005190	30	5–14	4.80	500	2000	40.000	37.30
630200005191	35	5–14	5.20	250	1500	30.000	43.10
630200005192	40	5–14	6.00	250	1250	25.000	47.80
630200005193	50	5–14	6.40	125	1000	20.000	69.90

## Clamping spacer type DI

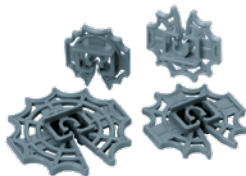


Single spacer made of plastic for various iron diameters for securing to horizontal and vertical reinforcement. Good concrete flow.

- Other dimensions or clamp ranges available on request

Item number	Concrete covering [mm]	Clamp range [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
630300005202	15	6–12	3.40	1000	5000	100.000	18.60
630300005203	20	6–12	3.40	500	5000	100.000	18.60
630300005204	25	6–12	5.60	500	4000	48.000	22.10
630300005205	30	6–12	7.80	500	2500	35.000	28.00
630300005206	35	6–12	11.00	200	1000	20.000	54.80
630300005207	40	6–12	16.00	125	1000	20.000	79.20
630300005208	50	6–14	22.00	100	500	10.000	128.10

## Spacer MS II

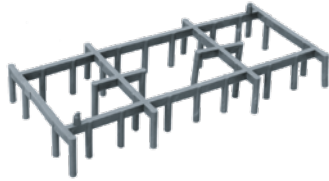


Single spacer made of plastic for various iron diameters for securing to horizontal and vertical reinforcement.

For semi-automated or fully automated mounting of spacers in a prefabricated parts factory.

Item number	Concrete covering [mm]	Clamp range [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/box]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
630400005222	15	6–10	4.00	2500	100.000	19.80
630400005223	20	6–10	4.80	2000	80.000	23.30
630400005224	25	6–10	7.25	1300	52.000	33.80
630400005225	30	6–10	8.00	450	28.800	45.50

## Rectangular spacer



Surface spacer made of plastic with support at specific points for horizontal mesh and round steel reinforcement.

- Size approx. 200 x 100 mm

Item number	Concrete covering [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bundle]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
630500005234	15	26.40	60	9240	122.30
630500005235	20	28.00	60	9240	131.60
630500005236	25	32.00	60	9240	139.80
630500005237	30	33.60	60	9240	149.10
630500005238	35	35.00	60	7920	161.90
630500005239	40	38.50	60	7920	173.60

## Rundfix six-ring



Large spacer made of plastic with support at specific points for horizontal mesh and round steel reinforcement. Consisting of six easily separable rings.

- Outer diameter 300 mm, inner diameter 150 mm

Item number	Concrete covering [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
630100005241	15	2.20	50 x 6 rings	14,400	12.80
630100005242	20	2.30	50 x 6 rings	10,800	13.40
630100005243	25	2.35	50 x 6 rings	10,800	14.00
630100005244	30	2.50	50 x 6 rings	7200	15.20

## Drunterfix with cutout



Linear plastic surface spacer with cutouts in the side for large horizontal reinforcement layers. Good concrete flow.

- Element length: 2000 mm
- Special lengths available on request

Item number	Concrete covering [mm]	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
630600017074	15	13.00	100	6300	46.00
630600016912	20	15.00	100	6300	49.00
630600005248	25	17.00	100	4200	61.30
630600005250	30	18.50	100	3600	70.40
630600016913	35	21.00	60	2520	93.90
630600016914	40	24.00	60	2400	103.20
630600016915	50	35.00	60	1680	149.20

## Drunterfix without cutout



Linear spacer made of plastic for large horizontal reinforcement layers. Particularly well-suited to use on a soft surface, such as insulation plates. Good concrete flow.

- Element length: 2000 mm
- Special lengths available on request

Item number	Concrete covering [mm]	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
630700005257	15	14.50	100	6300	51.00
630700005258	20	16.60	100	6300	53.40
630700005259	25	19.00	100	4200	65.50
630700005260	30	20.30	100	3600	75.50
630700005261	35	27.00	60	2880	101.40
630700005262	40	32.00	60	2400	111.50
630700005263	50	34.00	60	1680	161.80

## Steckfix



Linear spacer made of plastic with support at specific points for horizontal mesh and round steel reinforcement. Particularly well-suited to use in prefabricated parts factories. Good concrete flow.

- Element length: 2000 mm
- Can be inserted and divided in a 500 mm grid

Item number	Concrete covering [mm]	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
630900005284	15	9.20	100	6000	33.80
630900005286	20	9.80	100	4800	34.90
630900005290	25	10.20	100	4200	38.50
630900005294	30	10.60	100	3600	40.80
630900005296	35	11.00	100	3000	46.50
630900005297	40	12.00	80	2400	52.40
630900005298	45	12.75	80	2400	55.90
630900005299	50	13.50	80	1920	61.70

## Base strip



Linear spacer made of plastic with support at specific points for horizontal mesh and round steel reinforcement. Particularly well-suited to use in prefabricated parts factories. Nubs, which point upwards prevent the reinforcement from slipping out of place. Good concrete flow.

- Element length: 2000 mm
- Can be inserted and divided in a 500 mm grid

Item number	Concrete covering [mm]	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
631000005309	15	9.60	100	6000	35.00
631000005310	20	10.50	100	4800	37.20
631000005301	25	10.80	100	4200	39.60
631000005303	30	11.00	100	3600	41.90
631000005305	35	12.00	80	2880	47.80
631000005306	40	13.00	80	2400	53.60
631000005307	45	14.00	60	1800	60.60
631000005308	50	14.50	60	1800	62.90

## Fibre-reinforced concrete pipe



Round fibre-reinforced concrete pipe as formwork spacer for reinforced concrete walls.  
Tested for watertightness in water-impervious components.

Item number	Inner dia. [mm]	Outer dia. [mm]	Length [mm]	Weight [kg/m]	Packaging unit [m/pal.]	Price per m [€]
720100021521	22	40	1280	1.75	375	2.30

## Fibre-reinforced concrete pipe sections



Round fibre-reinforced concrete pipe as formwork spacer for reinforced concrete walls.  
Tested for watertightness in water-impervious components.

- Other dimensions on request

Item number	Ø Internal [mm]	Ø External [mm]	Length [mm]	Weight [kg/pc.]	Packaging unit [pcs/bundle]	Packaging unit [pcs/pal.]	Price per pc. [€]
720100003774	22	40	100	0.18	150	2100	0.50
720100003775	22	40	120	0.21	50	2000	0.50
720100003777	22	40	140	0.25	50	2000	0.60
720100003778	22	40	150	0.26	50	2000	0.60
720100003779	22	40	160	0.28	50	2000	0.60
720100003780	22	40	180	0.32	25	1000	0.70
720100003782	22	40	200	0.35	25	1000	0.70
720100003783	22	40	220	0.38	25	1000	0.70
720100003784	22	40	230	0.40	25	1000	0.70
720100003785	22	40	240	0.42	25	1000	0.70
720100003786	22	40	250	0.44	25	1000	0.80
720100003787	22	40	280	0.49	25	1000	0.90
720100003789	22	40	300	0.53	25	1000	0.90
720100003791	22	40	330	0.58	30	1020	1.00
720100003792	22	40	340	0.60	30	1020	1.00
720100003793	22	40	350	0.62	30	1020	1.10
720100003794	22	40	360	0.63	30	1020	1.20
720100003795	22	40	380	0.67	30	1020	1.20
720100003796	22	40	400	0.70	30	1020	1.20
720100003798	22	40	450	0.79	30	510	1.50
720100003800	22	40	500	0.88	20	500	1.50
720100003801	22	40	550	0.96	20	500	1.80
720100003802	22	40	600	1.05	20	500	1.80

## Fibre-reinforced concrete plug



Plug made of fibre-reinforced concrete for sealing fibre-reinforced concrete formwork spacers.

- Other dimensions on request

Item number	Dia. [mm]	Length [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Price per 100 pcs [€]
720200005359	22	20	1.00	1000	12.80
720200005360	22	40	2.00	1000	16.60
720200005361	22	50	2.50	500	18.60

## Fibre-reinforced concrete adhesive



Two-component adhesive with epoxy resin base for adhering the fibre-reinforced concrete plugs and fibre-reinforced concrete pipes.

- Watertightness tested according to DIN 1048
- Mixing ratio of components A:B = 1:1

Item number	Usage	Weight [kg/tin]	Packaging unit [tin]	Price per kg [€]
720300005370	2 kg per 1000 pcs	1.00	Each 1	29.80

## Spacer tubes



Plastic spacer tubes with rough surface for producing tie points for wall formwork.

Element length: 2000 mm

- Also available with a smooth surface
- Use with super cones recommended
- Other dimensions and lengths available on request

Item number	Inner dia. [mm]	Outer dia. [mm]	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
730100002347	20	26	26.00	50	2450	62.90
730100005377	22	26	18.00	50	2800	41.90
730100002355	26	32	36.00	50	1800	92.00
730100003898	32	36	29.50	30	1260	87.40
730100002361	40	46	54.00	30	900	158.40

## Super cones



Cone for extending the contact area on the formwork and for protecting the formwork facing.

- To be removed after concreting
- Reusable
- Other cone heights available on request

Item number	Dia. [mm]	Cone height [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Price per 1000 pcs [€]
730100002410	20	10	5.00	500	3000	33.80
730100002411	22	10	6.00	500	3000	25.00
730100002412	26	10	8.00	500	-	55.90
730100002413	32	10	8.40	500	2500	67.50
730100002414	40	20	16.00	125	1000	349.40



## Super plugs



Plastic plugs for sealing spacer tubes and drill holes.

- Other dimensions on request

Item number	Dia. [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Price per 1000 pcs [€]
730100002418	20	2.40	1000	5000	21.00
730100002419	22	3.60	1000	4000	21.50
730100002420	26	4.80	1000	-	33.20
730100002421	32	8.00	500	-	41.90
730100002422	40	12.00	500	-	218.90

## Seal Plugs



Elastic PVC-free sealing plug for sealing formwork tie points against incoming water.

Item number	Dia. [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
990300002334	20	3.00	500	2500	50.000	78.00
990300002335	22	3.60	500	2500	50.000	58.30
990300002337	26	5.20	250	1000	20.000	157.20

## OPTI wall strengtheners



Pre-assembled plastic tie point for wall formwork.

For use in water-impervious components, we recommend using

**PENTAFLEX® OPTI wall strengtheners – see page 13.**

- Other lengths available on request

Item number	Inner dia. [mm]	Outer dia. [mm]	Length [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
730100002425	22	26	150	3.5	100	5000	30.30
730100002426	22	26	180	4.5	100	5000	27.90
730100002427	22	26	200	5.0	100	4000	28.50
730100002429	22	26	240	5.6	100	4000	30.30
730100002430	22	26	250	6.0	100	4000	30.80
730100002439	22	26	300	6.8	100	4000	31.50
730100002440	22	26	350	10.5	75	3000	39.60
730100002441	22	26	365	12.0	75	3000	40.20
730100002443	22	26	400	14.0	75	3000	41.90
730100002444	22	26	450*	15.0	50	2000	47.80
730100002445	22	26	500*	17.0	50	2000	52.40

\* plugged version

## OPTI plugs



Plastic plugs for sealing OPTI wall strengtheners.

Item number	Dia. [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
990300002308	22	3.60	500	2500	50.000	30.30

## OPTI cones



Cone with a water stop for extending the contact area of the spacer tubes on the formwork. Remains in the concrete after concreting.

- Other dimensions on request

Item number	Dia. [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
730100002406	22 / 26	10.0	500	24.000	64.10
730100002407	22 / 28	11.0	500	24.000	92.00

## OPTI wall strengtheners combi-pack



Pre-assembled plastic tie point for wall formwork.

Supplied with OPTI plugs.

- Other lengths available on request

Item number	Inner dia. [mm]	Outer dia. [mm]	Length [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
730100002446	22	26	150	3.50	100	5000	36.10
730100002447	22	26	180	4.50	100	5000	33.80
730100002448	22	26	200	5.00	100	4000	34.30
730100002450	22	26	240	5.60	100	4000	35.50
730100002451	22	26	250	6.00	100	4000	36.70
730100002453	22	26	300	6.80	100	4000	37.80
730100002454	22	26	350	10.50	75	3000	46.50
730100002455	22	26	365	12.00	75	3000	47.20
730100002305	22	26	400	14.00	75	3000	48.40
730100002306	22	26	450*	15.00	50	2000	54.80
730100002307	22	26	500*	17.00	50	2000	60.60

\* plugged version

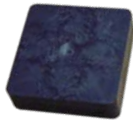
## Distance plates



Stackable mounting plate with cutouts as a fitting aid for aligning and installing precast concrete components, for example.

Item number	Length [mm]	Width [mm]	Thickness [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
730200005398	45	75	2	4.00	500	30.000	4.10
730200005399	45	75	3	6.00	500	25.000	5.20
730200005400	45	75	5	10.00	500	25.000	7.00
730200005401	45	75	10	20.00	500	20.000	11.70
730200005402	45	75	20	40.00	250	10.000	27.40

## Spacer plates type V



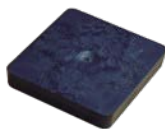
Pressure-resistant spacer plate as a fitting aid for aligning and installing precast concrete components, for example.

Exemplary illustration

Item number	Length [mm]	Width [mm]	Thickness [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
730200005405	70	70	2	0.96	1000	40.000	4.50
730200005408	70	70	3	1.44	1000	40.000	6.00
730200005410	70	70	4	1.92	500	20.000	8.60
730200005411	70	70	5	2.40	500	20.000	9.90
730200005412	70	70	6	2.88	500	20.000	12.90
730200005413	70	70	7	3.36	500	20.000	18.50
730200005414	70	70	8	3.84	250	10.000	19.70
730200005415	70	70	9	4.32	250	10.000	20.30
730200005403	70	70	10*	4.80	250	10.000	20.90
730200005404	70	70	15*	7.20	200	8000	41.90
730200005406	70	70	20*	9.60	150	6000	52.40
730200005407	70	70	25*	12.00	100	4000	83.80
730200005409	70	70	30*	14.40	100	4000	107.30

\* not solid slabs

## Mounting plate



Pressure-resistant spacer plate as a fitting aid for aligning and installing precast concrete components, for example.

Exemplary illustration

Item number	Length [mm]	Width [mm]	Thickness [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
730200005429	100	100	2	2.28	500	20.000	9.90
730200005430	100	100	3	3.32	500	20.000	12.20
730200005431	100	100	5	5.04	250	10.000	18.60
730200005432	100	100	8	8.20	100	4000	39.10
730200005433	100	100	10	10.30	100	4000	46.00
730200005434	100	100	15	15.10	50	2000	101.90
730200005435	100	100	20	20.50	50	2000	128.10
730200005436	100	100	30	30.20	50	1000	191.00

## Spacer plates type S

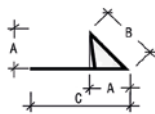


Exemplary illustration

Pressure-resistant spacer plate with slot as a fitting aid for aligning and installing precast concrete components, for example. Suitable for use between protruding iron reinforcement.

Item number	Length [mm]	Width [mm]	Thickness [mm]	Slot [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Price per 100 pcs [€]
730200005418	70	70	2	22	0.76	250	1000	4.60
730200005421	70	70	3	22	1.16	250	1000	6.00
730200005423	70	70	4	22	1.52	125	500	8.50
730200005424	70	70	5	22	1.92	125	500	10.00
730200005425	70	70	6	22	2.32	125	500	12.90
730200005426	70	70	7	22	2.72	125	500	16.50
730200005427	70	70	8	22	3.12	125	250	18.30
730200005428	70	70	9	22	3.52	125	250	19.80
730200005416	70	70	10	22	3.84	125	250	21.20
730200005417	70	70	15	22	5.80	50	200	41.90
730200005419	70	70	20	22	7.60	50	150	53.60
730200005420	70	70	25	22	9.60	100	-	84.40
730200005422	70	70	30	22	11.60	100	-	103.60

## Corner strips



Plastic chamfer strip with nail flange for producing equal chamfers in concrete components. Element length: 2500 mm.

- Tolerance:  $\pm 1$  mm
- Reusable

Item number	Dimensions [mm]			Profile	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
	A	B	C					
730300005454	7	11	23	Solid	7.00	100	6000	46.50
730300005455	11	15	23	Hollow	8.00	100	5000	37.20
730300005457	15	22	29	Hollow	11.70	100	4900	46.50
730300005459	20	27	35	Hollow	21.80	50	2400	70.50
730300005460	25	36	42	Hollow	29.80	50	2400	98.30

## Chamfer strips



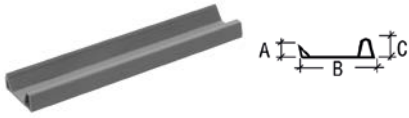
Plastic chamfer strip for producing equal chamfers in concrete components.

Element length: 2500 mm.

- Tolerance:  $\pm 1$  mm
- Reusable

Item number	Dimensions [mm]		Profile	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
	A	B					
730300005438	10	15	Hollow	5.20	100	6500	24.50
730300005440	15	21	Hollow	8.00	100	5400	28.50
730300005442	20	28	Hollow	12.00	100	4900	37.80
730300005444	25	35	Hollow	16.60	50	2450	67.50
730300005445	30	40	Hollow	23.60	50	2400	101.30

## Drip profile



Plastic profile strip with integrated drip profile for drip noses and chamfer strip for equal chamfers in concrete components, e.g. for balcony or projecting roof edges.

Element length: 2500 mm.

- Reusable

Item number	Dimensions [mm]			Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
	A	B	C				
730300005446	10	33	10	12.00	100	5000	73.30
730300005447	10	48	10	16.30	100	4900	107.10
730300005448	12	55	16	21.60	40	-	341.30

## Drip noses



Plastic profile strip for producing water drip edges in concrete components.

Element length: 2500 mm.

Item number	Dimensions [mm] B	Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
730300005449	12	8.00	100	5600	37.20
730300005450	20	9.50	100	4900	44.30

## T-Profile



Plastic T-profile for covering small formwork joints in concrete components.

Element length: 2500 mm.

Item number	Dimensions [mm]		Weight [kg/100 m]	Packaging unit [m/bundle]	Packaging unit [m/pal.]	Price per 100 m [€]
	B	H				
730300005452	40	20	15.00	100	4900	68.80

## Plastic nail



Fastening nail with barbs for fixing insulation panels in fresh concrete.

Item number	Length [mm]	Weight [kg/1000 pcs]	Packaging unit [pcs/bag]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 1000 pcs [€]
730900005525	50	1.70	1000	10000	140.000	21.00
730900005527	75	3.60	500	5000	100.000	15.20
730900005528	90	4.00	500	5000	100.000	16.30
730900005518	100	4.40	500	3000	60.000	16.90
730900005519	125	5.20	500	2500	50.000	19.20
730900005520	150	5.60	500	2500	50.000	35.50
730900005521	175	7.20	250	2000	40.000	64.60
730900005522	200	8.00	125	1000	20.000	75.70
730900005523	250	11.20	250	-	10.000	154.90
730900005524	300	14.00	250	-	10.000	167.70

## Multi-rocket



Stable plastic spacer with steel core and integrated water stop for producing triple-layer walls in prefabricated parts factories.

- Other dimensions on request (max. 460 mm)

Item number	Wall thickness [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
730600005462	150	7.60	100	5000	47.80
730600005464	180	9.60	100	5000	49.00
730600005466	200	10.50	100	5000	51.30
730600005468	215	12.20	100	5000	54.90
730600005469	220	11.60	100	4000	55.20
730600005472	240	12.20	100	4000	55.30
730600005473	250	12.60	100	4000	58.20
730600005478	300	22.20	50	2000	81.50
730600005483	340	24.20	50	1500	86.20
730600005484	350	25.20	50	1500	92.00
730600005485	360	26.00	50	1500	95.60
730600005486	365	26.20	50	1500	95.80
730600005489	400	28.40	50	1500	100.20

## ISI-rocket



Stable steel spacer for producing triple-layer walls in prefabricated parts factories.

Item number	Wall thickness [mm]	Weight [kg/100 pcs]	Packaging unit [pcs/sack]	Packaging unit [pcs/pal.]	Price per 100 pcs [€]
730700005495	120	4.60	100	5000	41.90
730700005498	150	5.80	100	5000	42.60
730700005499	160	6.20	100	5000	44.20
730700005501	180	7.00	100	5000	44.50
730700005504	200	7.80	100	5000	45.50
730700005508	220	8.80	100	5000	47.80
730700005510	240	9.40	100	4000	49.00
730700005511	250	9.80	100	4000	49.50
730700005514	280	11.00	100	4000	53.30
730700005516	300	11.80	50	3000	53.60

A large grid of empty cells, likely for a price list or technical specifications. The grid consists of 25 columns and 45 rows of small, empty rectangular cells.

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# Our synergy concept for your benefit

**With us, you benefit from the collective experience of three established manufacturers, who combine products and expertise in a comprehensive range. That is the PohlCon synergy concept.**



## **Full-service consulting**

Our extensive network of consultants is available to answer all your questions about our products on site. From planning to use, you can enjoy personal support from our qualified employees.



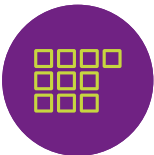
## **Digital solutions**

Our digital solutions provide targeted support in planning with our products. From tender texts to CAD details and BIM data, right through to modern software solutions, we offer customized support for your planning process.



## **7 fields of application**

We think in terms of holistic solutions. This is why we have combined our products into seven fields of application, where you can benefit from their synergy and the overall PohlCon product portfolio.



## **10 product categories**

In order to find the right product in our extensive range even faster, we have divided our products into ten product categories. This way you can navigate unerringly between our products.



## **Individual solutions**

No series product on the market is suitable for your project? We realize unique construction projects and exceptional challenges with the many years of expertise of the three manufacturing brands.



**PohlCon GmbH**

Nobelstr. 51  
12057 Berlin

T +49 30 68283 - 04  
F +49 30 68283 - 383

[www.pohlcon.com](http://www.pohlcon.com)