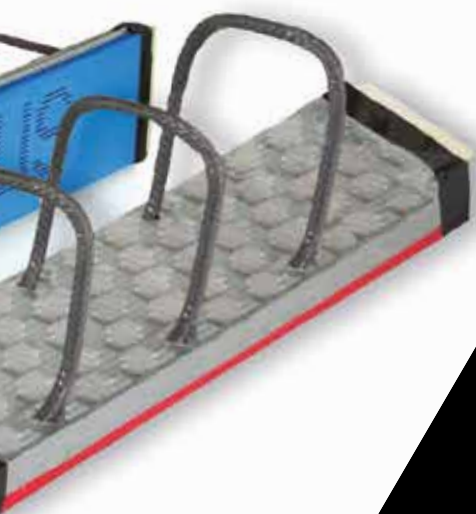




PRODUCTS

REINFORCEMENT SYSTEMS

REINFORCEMENT
SYSTEMS



REINFORCEMENT SYSTEM PLEXUS®, PYRAPLEX®, FTW



PLEXUS®

PLEXUS® is a prefabricated rebar continuity system for reinforced concrete construction. PLEXUS® provides a simple and cost effective method of reinforcement continuity across concrete joints. The surface texture of the box are classified in the category “smooth” according to DBV (German Society for Concrete and Construction Technology) datasheet “Bending back concrete steel and requirements for protective boxes”.



PYRAPLEX®

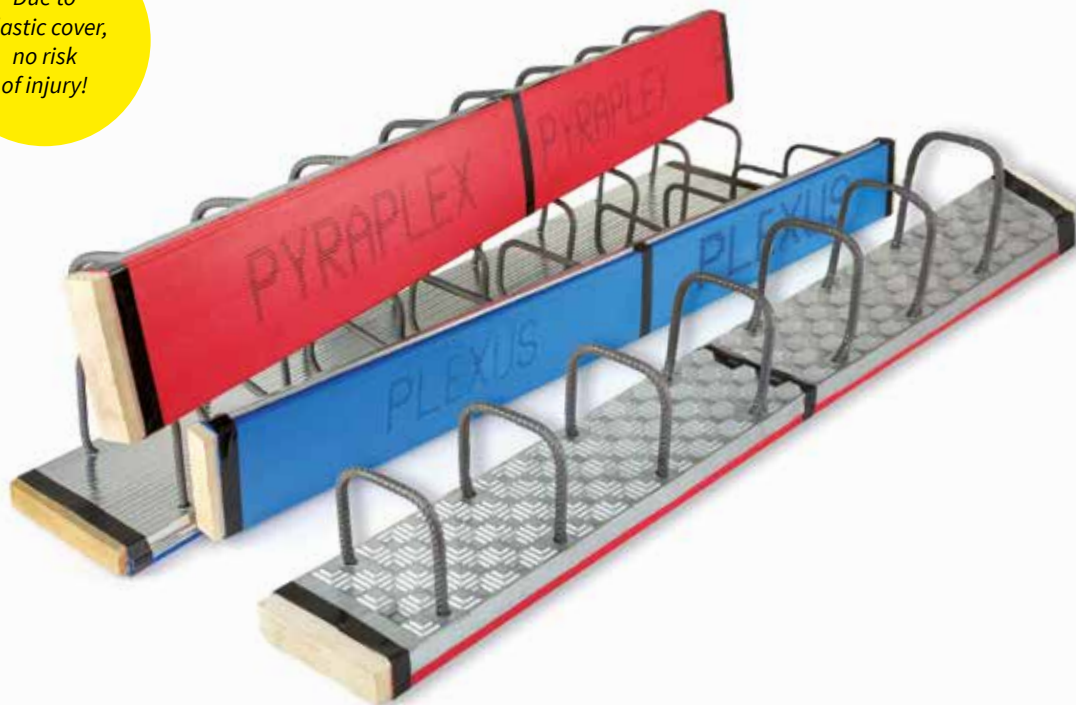
PYRAPLEX® is the advanced development of the PLEXUS® box with indentations for high share forces. With the new and unique special pyramid design of the box it is the PYRAPLEX® which is the first product that ensures a biaxial transfer of the shearing forces across the length of the construction joint. The surface texture of the box are classified in the category “geared” according to DBV (German Society for Concrete and Construction Technology) datasheet “Bending back concrete steel and requirements for protective boxes”.



PLEXUS® FTW

PLEXUS® FTW for the use in the precast industry or applications where an extra low box height of 20 or 30mm is required. The surface texture of the box are classified in the category “smooth” according to DBV (German Society for Concrete and Construction Technology) datasheet “Bending back concrete steel and requirements for protective boxes”.

Due to
plastic cover,
no risk
of injury!



REINFORCEMENT SYSTEMS

The reinforcement system PLEXUS®, PYRAPLEX® and PLEXUS® FTW are certified to the requirements of DIN EN 1992-1-1 with NA(D) and DBV (German Society for Concrete and Construction Technology) datasheet "Bending back concrete steel and requirements for protective boxes", according to the Eurocode 2, January 2011. The pull out bar lengths are in accordance to DIN 1045-1:2008-08, section 12.3.2. or other local regulations in Europe.

- Diameter of bending roller: 6ds
- Bent section of metal connectors within casing
- Transverse hooks on individual strips to simplify insertion of reinforcement
- Galvanised casing can remain inside concrete
- Ends closed with wood, thereby extremely stable
- Plastic cover for lower weight, easier and reduced risk of injury
- No plastic remains in the concrete

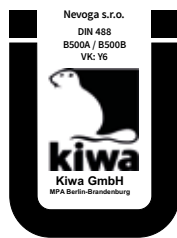
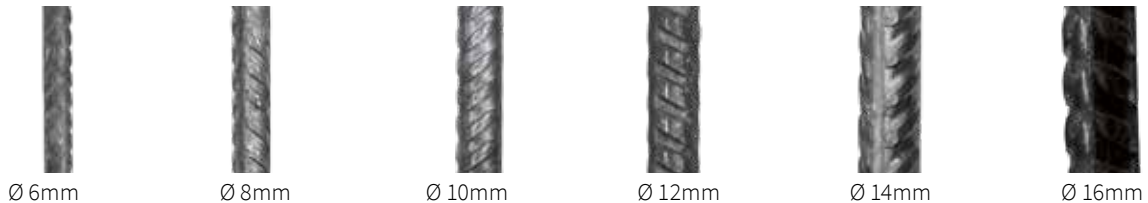
All different steel grades required in the European countries are available from stock at short notice.

Pull out length l _ü :	acc. to DIN 1045:	acc. to ÖNORM B4200:
Ø 8mm:	32cm	29cm
Ø 10mm:	39cm	36cm
Ø 12mm:	46cm	42cm

Tested according to
Eurocode2

Length of galvanised casing 1.20m, total length with end pieces between 1.22 and 1.25m. Invoiced will be 1.25m.

Following iron Ø are available:



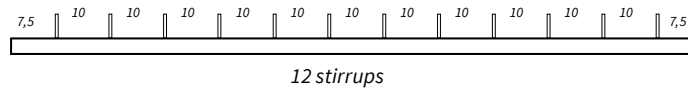
External control by
Kiwa GmbH.



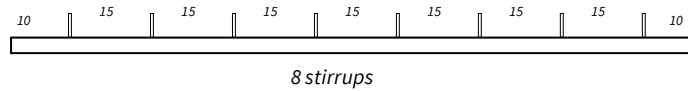
External control by
UK Certification Authority for Reinforcing Steels.

NUMBER OF STIRRUPS IN STANDARD ELEMENTS:

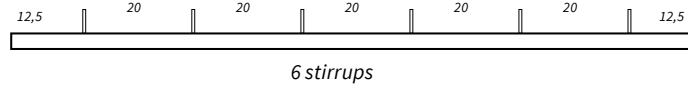
Stirrup distance "s" 100mm



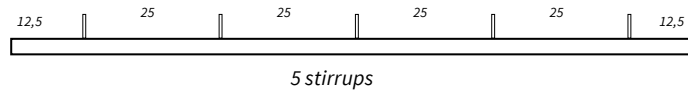
Stirrup distance "s" 150mm



Stirrup distance "s" 200mm



Stirrup distance "s" 250mm



PLEXUS®

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BK0810..	90	8	100	30	12,5	312,5
BK0815..	90	8	150	30	17,5	350
BK0820..	90	8	200	30	17,5	350
BK0825..	90	8	250	30	17,5	350
BK1010..	90	10	100	36	12,5	250
BK1015..	90	10	150	36	15,0	300
BK1020..	90	10	200	36	15,0	300
BK1025..	90	10	250	36	15,0	300
BK1210..	130	12	100	36	8,75	175
BK1215..	130	12	150	36	12,5	200
BK1220..	130	12	200	36	12,5	200
BK1225..	130	12	250	36	12,5	200

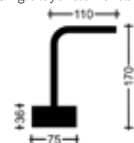
Single layer element ø 8mm



Single layer element ø 10mm



Single layer element ø 12mm



PLEXUS®

Stirrup width 6cm, box width 8,5cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BK081006..	130	8	100	30	10	120
BK081506..	130	8	150	30	10	120
BK082006..	130	8	200	30	10	120
BK082506..	130	8	250	30	10	120
BK101006..	130	10	100	36	10	120
BK101506..	130	10	150	36	10	120
BK102006..	130	10	200	36	10	120
BK102506..	130	10	250	36	10	120



Double layer element ø 8mm



Double layer element ø 10mm



PLEXUS®

Stirrup width 9cm, box width 11,5cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BK081009..	160 - 180	8	100	30	7,5	120
BK081509..	160 - 180	8	150	30	7,5	120
BK082009..	160 - 180	8	200	30	7,5	120
BK082509..	160 - 180	8	250	30	7,5	120
BK101009..	160 - 180	10	100	36	7,5	120
BK101509..	160 - 180	10	150	36	7,5	120
BK102009..	160 - 180	10	200	36	7,5	120
BK102509..	160 - 180	10	250	36	7,5	120
*B121009..	160 - 180	12	100	50	7,5	120
BK121509..	160 - 180	12	150	36	7,5	120
BK122009..	160 - 180	12	200	36	7,5	120
BK122509..	160 - 180	12	250	36	7,5	120



* Only possible with steel cover and height 50mm.

Double layer element ø 8mm



Double layer element ø 10mm



Double layer element ø 12mm



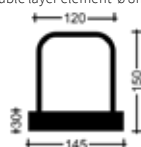


PLEXUS®

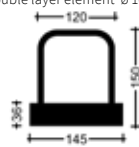
Stirrup width 12cm, box width 14,5cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BK081012..	180 - 200	8	100	30	5,0	100
BK081512..	180 - 200	8	150	30	5,0	100
BK082012..	180 - 200	8	200	30	5,0	100
BK082512..	180 - 200	8	250	30	5,0	100
BK101012..	180 - 200	10	100	36	5,0	100
BK101512..	180 - 200	10	150	36	5,0	100
BK102012..	180 - 200	10	200	36	5,0	100
BK102512..	180 - 200	10	250	36	5,0	100
BK121012..	180 - 200	12	100	36	5,0	100
BK121512..	180 - 200	12	150	36	5,0	100
BK122012..	180 - 200	12	200	36	5,0	100
BK122512..	180 - 200	12	250	36	5,0	100

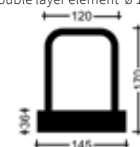
Double layer element ø 8mm



Double layer element ø 10mm



Double layer element ø 12mm

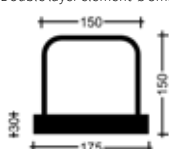


PLEXUS®

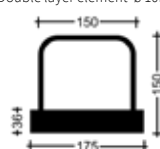
Stirrup width 15cm, box width 17,5cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BK081015..	200 - 240	8	100	30	5,0	100
BK081515..	200 - 240	8	150	30	5,0	100
BK082015..	200 - 240	8	200	30	5,0	100
BK082515..	200 - 240	8	250	30	5,0	100
BK101015..	200 - 240	10	100	36	5,0	100
BK101515..	200 - 240	10	150	36	5,0	100
BK102015..	200 - 240	10	200	36	5,0	100
BK102515..	200 - 240	10	250	36	5,0	100
BK121015..	200 - 240	12	100	36	5,0	100
BK121515..	200 - 240	12	150	36	5,0	100
BK122015..	200 - 240	12	200	36	5,0	100
BK122515..	200 - 240	12	250	36	5,0	100

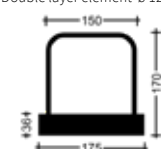
Double layer element ø 8mm



Double layer element ø 10mm



Double layer element ø 12mm



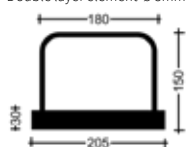
PLEXUS®

Stirrup width 18cm, box width 20,5cm

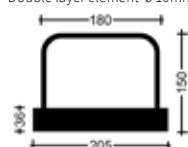
Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
B081018..	240 - 270	8	100	30	5,0	80
B081518..	240 - 270	8	150	30	5,0	80
B082018..	240 - 270	8	200	30	5,0	80
B082518..	240 - 270	8	250	30	5,0	80
B101018..	240 - 270	10	100	36	5,0	80
B101518..	240 - 270	10	150	36	5,0	80
B102018..	240 - 270	10	200	36	5,0	80
B102518..	240 - 270	10	250	36	5,0	80
B121018..	240 - 270	12	100	36	5,0	60
B121518..	240 - 270	12	150	36	5,0	60
B122018..	240 - 270	12	200	36	5,0	60
B122518..	240 - 270	12	250	36	5,0	60



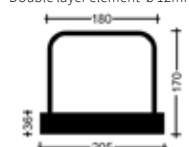
Double layer element ø 8mm



Double layer element ø 10mm



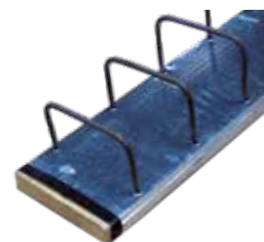
Double layer element ø 12mm



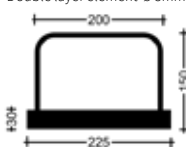
PLEXUS®

Stirrup width 20cm, box width 22,5cm

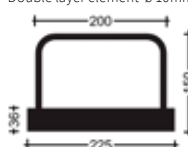
Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
B081020..	270 - 290	8	100	30	5,0	80
B081520..	270 - 290	8	150	30	5,0	80
B082020..	270 - 290	8	200	30	5,0	80
B082520..	270 - 290	8	250	30	5,0	80
B101020..	270 - 290	10	100	36	5,0	80
B101520..	270 - 290	10	150	36	5,0	80
B102020..	270 - 290	10	200	36	5,0	80
B102520..	270 - 290	10	250	36	5,0	80
B121020..	270 - 290	12	100	36	5,0	60
B121520..	270 - 290	12	150	36	5,0	60
B122020..	270 - 290	12	200	36	5,0	60
B122520..	270 - 290	12	250	36	5,0	60



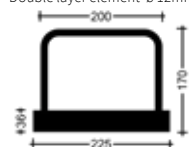
Double layer element ø 8mm

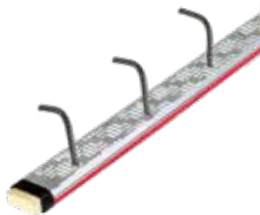


Double layer element ø 10mm



Double layer element ø 12mm





PYRAPLEX®

Box width 11,2cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BKV0810..	160	8	100	30	7,5	120
BKV0815..	160	8	150	30	7,5	120
BKV0820..	160	8	200	30	7,5	120
BKV1010..	160	10	100	36	7,5	120
BKV1015..	160	10	150	36	7,5	120
BKV1020..	160	10	200	36	7,5	120
BKV1210..	160	12	100	40	7,5	120
BKV1215..	160	12	150	36	7,5	120
BKV1220..	160	12	200	36	7,5	120

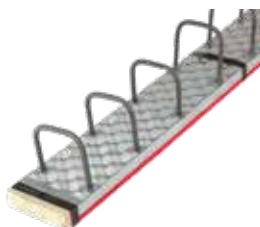
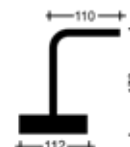
Single layer element ø 8mm



Single layer element ø 10mm



Single layer element ø 12mm



PYRAPLEX®

Stirrup width 9cm, box width 11,2cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BKV081009..	160 - 180	8	100	30	7,5	120
BKV081509..	160 - 180	8	150	30	7,5	120
BKV082009..	160 - 180	8	200	30	7,5	120
BKV101009..	160 - 180	10	100	50	7,5	120
BKV101509..	160 - 180	10	150	36	7,5	120
BKV102009..	160 - 180	10	200	36	7,5	120
BKV121509..	160 - 180	12	150	50	7,5	120
BKV122009..	160 - 180	12	200	40	7,5	120

Double layer element ø 8mm, 10mm, 12mm



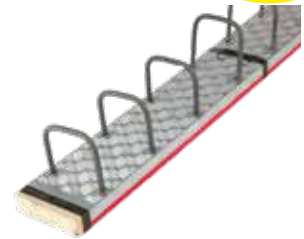
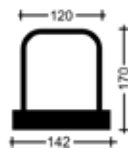
for high
share forces

PYRAPLEX®

Stirrup width 12cm, box width 14,2cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BKV081012..	180 - 200	8	100	30	5,0	100
BKV081512..	180 - 200	8	150	30	5,0	100
BKV082012..	180 - 200	8	200	30	5,0	100
BKV101012..	180 - 200	10	100	40	5,0	100
BKV101512..	180 - 200	10	150	36	5,0	100
BKV102012..	180 - 200	10	200	36	5,0	100
BKV121012..	180 - 200	12	100	50	5,0	100
BKV121512..	180 - 200	12	150	36	5,0	100
BKV122012..	180 - 200	12	200	36	5,0	100

Double layer element ø 8mm, 10mm, 12mm

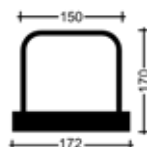


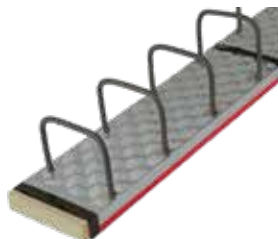
PYRAPLEX®

Stirrup width 15cm, box width 17,2cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BKV081015..	200 - 240	8	100	30	5,0	100
BKV081515..	200 - 240	8	150	30	5,0	100
BKV082015..	200 - 240	8	200	30	5,0	100
BKV101015..	200 - 240	10	100	36	5,0	100
BKV101515..	200 - 240	10	150	36	5,0	100
BKV102015..	200 - 240	10	200	36	5,0	100
BKV121015..	200 - 240	12	100	50	5,0	100
BKV121515..	200 - 240	12	150	36	5,0	100
BKV122015..	200 - 240	12	200	36	5,0	100

Double layer element ø 8mm, 10mm, 12mm



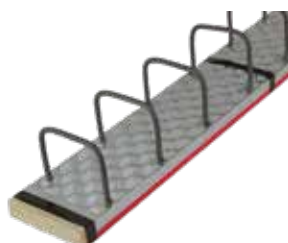
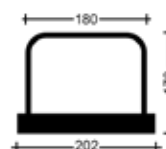


PYRAPLEX®

Stirrup width 18cm, box width 20,2 cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „S“ mm	Box height mm	m/ Bundle	m/ Pallet
BKV081018..	240 - 270	8	100	30	5,0	80
BKV081518..	240 - 270	8	150	30	5,0	80
BKV082018..	240 - 270	8	200	30	5,0	80
BKV101018..	240 - 270	10	100	36	5,0	80
BKV101518..	240 - 270	10	150	36	5,0	80
BKV102018..	240 - 270	10	200	36	5,0	80
BKV121018..	240 - 270	12	100	40	5,0	60
BKV121518..	240 - 270	12	150	36	5,0	60
BKV122018..	240 - 270	12	200	36	5,0	60

Double layer element ø 8mm, 10mm, 12mm

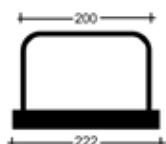


PYRAPLEX®

Stirrup width 20cm, box width 22,2cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „S“ mm	Box height mm	m/ Bundle	m/ Pallet
BKV081020..	270 - 290	8	100	30	5,0	80
BKV081520..	270 - 290	8	150	30	5,0	80
BKV082020..	270 - 290	8	200	30	5,0	80
BKV101020..	270 - 290	10	100	36	5,0	80
BKV101520..	270 - 290	10	150	36	5,0	80
BKV102020..	270 - 290	10	200	36	5,0	80
BKV121020..	270 - 290	12	100	36	5,0	60
BKV121520..	270 - 290	12	150	36	5,0	60
BKV122020..	270 - 290	12	200	36	5,0	60

Double layer element ø 8mm, 10mm, 12mm



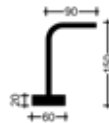
PLEXUS® FOR PRECAST INDUSTRY

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BK0815..AG	90	8	150	20	17,5	300
BK0820..AG	90	8	200	20	17,5	350
BK1015..AG	90	10	150	20	15,0	300
BK1020..AG	90	10	200	20	15,0	300
BK1215..AG	130	12	150	30	12,5	200

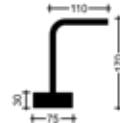
Single layer element ø 8mm for pre-fabricated section and slip form



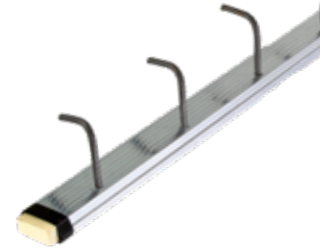
Single layer element ø 10mm for pre-fabricated section and slip form



Single layer element ø 12mm for pre-fabricated section and slip form



Box height only
20mm or 30mm!

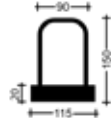


PLEXUS® FOR PRECAST INDUSTRY

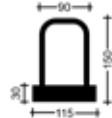
Stirrup width 9cm, box width 1,5cm

Item-No.	For wall thickness from mm	Iron Ø mm	Stirrup distance „s“ mm	Box height mm	m/ Bundle	m/ Pallet
BK081509..BG	160 - 180	8	150	20	7,5	120
BK101509..BG	160 - 180	10	150	30	7,5	120
BK082009..BG	160 - 180	8	200	20	7,5	120
BK102009..BG	160 - 180	10	200	30	7,5	120

Double layer element ø 8mm for pre-fabricated section and slip form



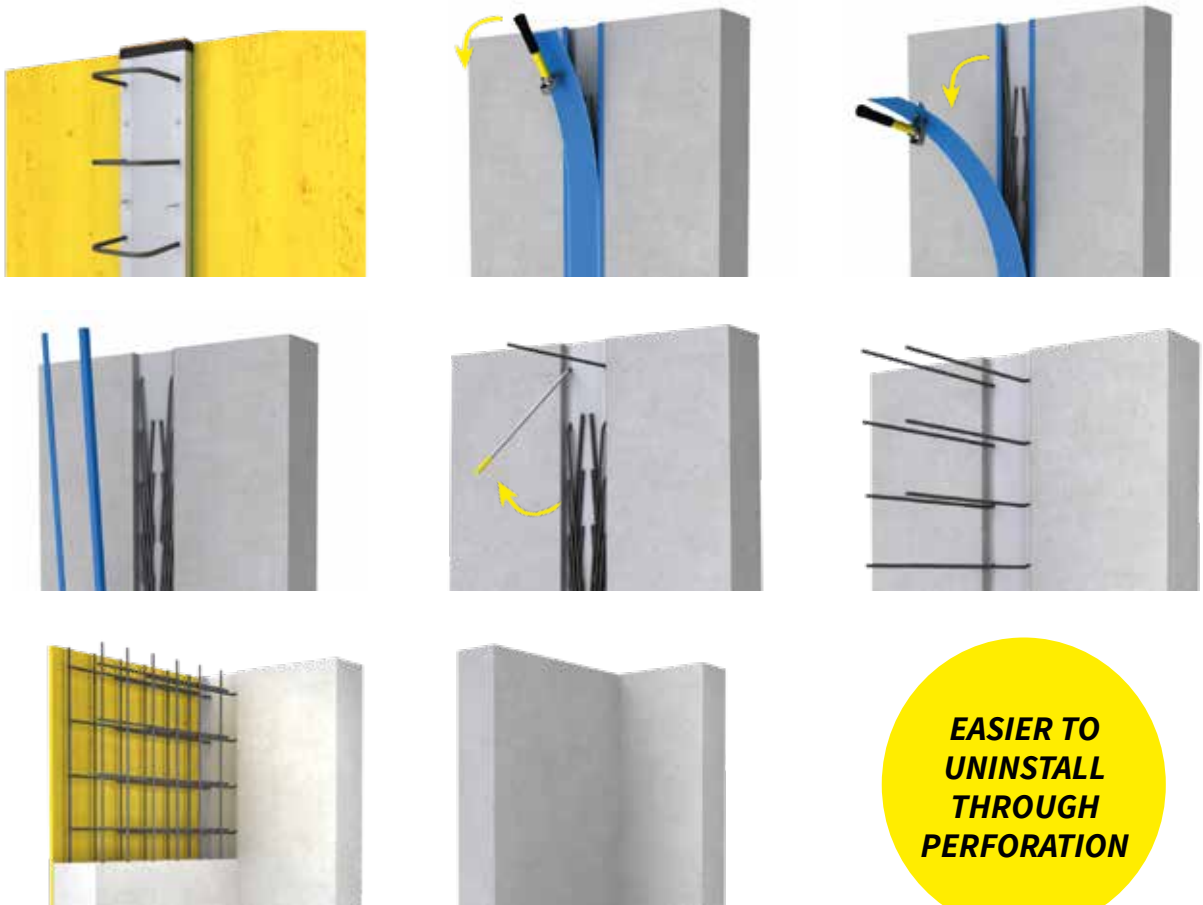
Double layer element ø 10mm for pre-fabricated section and slip form



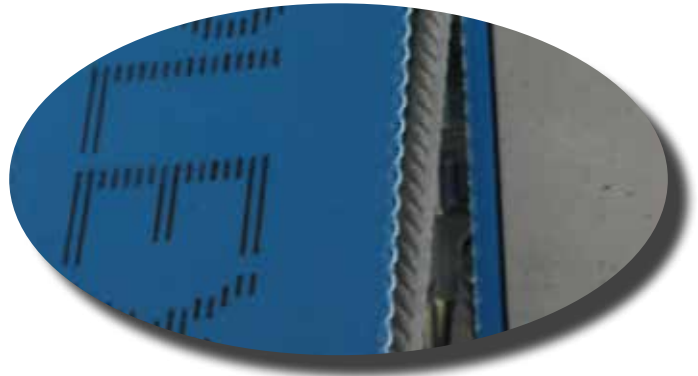
Box height only
20mm or 30mm!



PROCESSING



As a result of the perforation, the remaining strips on each side of the cover can be removed very easily. The reinforcement systems PLEXUS®, PYRAPLEX® and PLEXUS® FTW are type-tested. They are certified according to DIN EN 1992-1-1 with NA(D), Eurocode 2 and the DBV leaflet "Bending back of reinforcing steel and requirements for deposit boxes according to Eurocode 2":



Translation: It says the plastic must be totally removed.

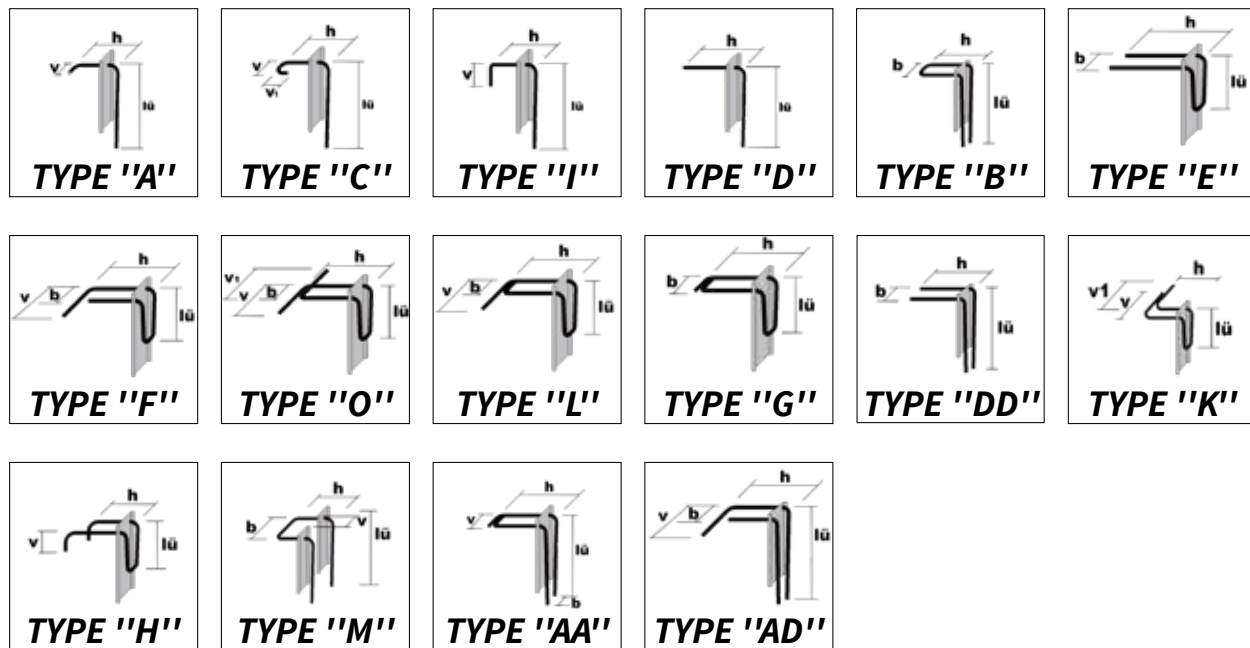
(3) Die Kästen dürfen nur dann im Bauwerk verbleiben, wenn sie aus einem Material mit mindestens der gleichen Steifigkeit wie der Beton bestehen, z. B. aus Stahlblech. Kunststoffkästen müssen restlos entfernt werden, sodass eine saubere Oberfläche mit ausreichender Profilierung verbleibt.

PLEXUS® CUSTOM-MADE PRODUCT

Customer: _____

Project: _____

Date: _____



* Execution P / X / F	Piece	Type	Iron Ø (mm)	Stirrup distances (cm)	Stirrup width b (cm)	Stirrup height h (cm)	Pull out length l_u (cm)	v / v1 (cm)	Box width (cm)	Length of element (cm)

*** Execution: P = PLEXUS®, X = PYRAPLEX®, F = PLEXUS® for precast industrie**

Due to the manufacture and installation, stirrup height and pull out length tolerance by 10 to 20mm. This can be prevented by using "position securing strips", which have to be ordered separately.