



Products Catalogue



Activity of Forbuild company started in 1998 year and consists of four main fields: production, sale, rental service and installation service. Our products and service are used in most of construction sectors: industry, infrastructure, ekology, commercial construction, office construction, residential construction and bridge construction.

Forbuild's main products are:

- bendable reinforcement system BINDAX®
- rebar couplers system FORTEC®
- protection system SECUMAX®
- sealing systems
- construction equipment
- balcony connectors
- products and equipment for bridge construction
- formwork accessories
- elastomer bearings

Our main purpose is high quality of products in connection with cost effective solutions. Using our solutions construction is quick, easy and safe. We have been implementing many ideas and solutions for many years and the results of it are our own products with registered designs.

Our specialized employees are at your command. We provide professional help and support of dozen engineers from Technical Department.

We invite you to cooperation !

**We provide technology, experience and high quality.
Building with us guarantee success.**

FORBUILD SA

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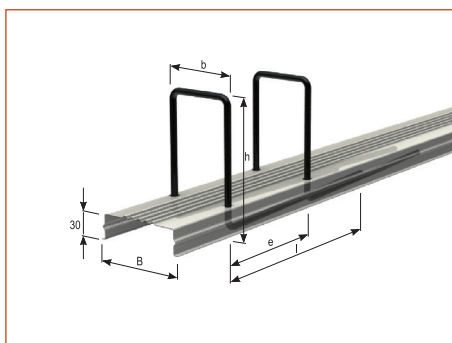
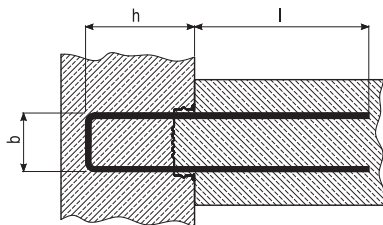
**| Products
| Catalogue**

Bendable reinforcement BINDAX®

System allows easy connection of reinforced concrete elements in different stages of construction. It provides optimal connection with concrete, shear forces transfer and avoiding of formwork puncturing. Bindax allows to build connections of walls, slabs, brackets, landings and stairs.

National Technical Assessment ITB-KOT-2019/0833

BINDAX - type S

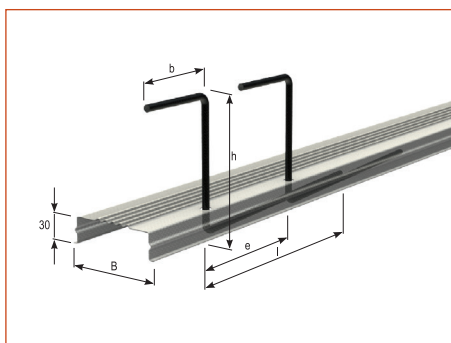
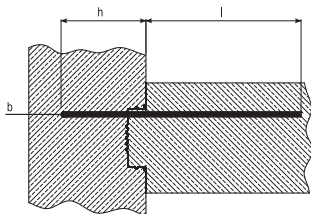


Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type S 80-8/15	80	8	15	15	6	32	m	150pcs=187,5m	3,217	ZB-ZO-CS-0-02543
BINDAX-S, type S 80-8/20	80	8	20	15	6	32	m	150	2,413	ZB-ZO-CS-0-02544
BINDAX-S, type S 80-8/25	80	8	25	15	6	32	m	150	2,011	ZB-ZO-CS-0-02545
BINDAX-S, type S 80-10/15	80	10	15	15	6	29	m	150	4,286	ZB-ZO-CS-0-02540
BINDAX-S, type S 80-10/20	80	10	20	15	6	36	m	150	3,830	ZB-ZO-CS-0-02541
BINDAX-S, type S 80-10/25	80	10	25	15	6	39	m	150	3,468	ZB-ZO-CS-0-02542
BINDAX-S, type S 110-8/10	110	8	10	15	9	32	m	80pcs=100m	5,265	ZB-ZO-CS-0-05396
BINDAX-S, type S 110-8/15	110	8	15	15	9	32	m	80	3,510	ZB-ZO-CS-0-05397
BINDAX-S, type S 110-8/20	110	8	20	15	9	32	m	80	2,890	ZB-ZO-CS-0-05398
BINDAX-S, type S 110-8/25	110	8	25	15	9	32	m	80	2,640	ZB-ZO-CS-0-05400
BINDAX-S, type S 110-8/30	110	8	30	15	9	32	m	80	2,112	ZB-ZO-CS-0-05401
BINDAX-S, type S 110-10/10	110	10	10	15	9	39	m	80	8,130	ZB-ZO-CS-0-02388
BINDAX-S, type S 110-10/15	110	10	15	15	9	39	m	80	5,420	ZB-ZO-CS-0-02390
BINDAX-S, type S 110-10/20	110	10	20	15	9	39	m	80	4,340	ZB-ZO-CS-0-02392
BINDAX-S, type S 110-10/25	110	10	25	15	9	39	m	80	3,617	ZB-ZO-CS-0-02393
BINDAX-S, type S 110-10/30	110	10	30	15	9	39	m	80	2,893	ZB-ZO-CS-0-05402
BINDAX-S, type S 110-12/10	110	12	10	15	9	30	m	80	9,561	ZB-ZO-CS-0-02395
BINDAX-S, type S 110-12/15	110	12	15	15	9	33	m	80	7,740	ZB-ZO-CS-0-02396
BINDAX-S, type S 110-12/20	110	12	20	15	9	46	m	80	6,040	ZB-ZO-CS-0-02397
BINDAX-S, type S 110-12/25	110	12	25	15	9	46	m	80	5,033	ZB-ZO-CS-0-05403
BINDAX-S, type S 110-12/30	110	12	30	15	9	46	m	80	4,026	ZB-ZO-CS-0-05404

Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type S 140-8/10	140	8	10	15	12	32	m	108pcs=135m	5,325	ZB-ZO-CS-0-02424
BINDAX-S, type S 140-8/15	140	8	15	15	12	32	m	108	3,550	ZB-ZO-CS-0-02425
BINDAX-S, type S 140-8/20	140	8	20	15	12	32	m	108	3,090	ZB-ZO-CS-0-02426
BINDAX-S, type S 140-8/25	140	8	25	15	12	32	m	108	2,830	ZB-ZO-CS-0-02427
BINDAX-S, type S 140-8/30	140	8	30	15	12	32	m	108	2,264	ZB-ZO-CS-0-05405
BINDAX-S, type S 140-10/10	140	10	10	15	12	39	m	108	7,560	ZB-ZO-CS-0-02412
BINDAX-S, type S 140-10/15	140	10	15	15	12	39	m	108	5,640	ZB-ZO-CS-0-02413
BINDAX-S, type S 140-10/20	140	10	20	15	12	39	m	108	4,370	ZB-ZO-CS-0-02414
BINDAX-S, type S 140-10/25	140	10	25	15	12	39	m	108	3,642	ZB-ZO-CS-0-05424
BINDAX-S, type S 140-10/30	140	10	30	15	12	39	m	108	2,914	ZB-ZO-CS-0-05425
BINDAX-S, type S 140-12/10	140	12	10	15	12	40	m	54pcs=67,5m	11,767	ZB-ZO-CS-0-02417
BINDAX-S, type S 140-12/15	140	12	15	15	12	46	m	108	8,010	ZB-ZO-CS-0-02420
BINDAX-S, type S 140-12/20	140	12	20	15	12	46	m	108	6,060	ZB-ZO-CS-0-02421
BINDAX-S, type S 140-12/25	140	12	25	15	12	46	m	108	5,050	ZB-ZO-CS-0-02422
BINDAX-S, type S 140-12/30	140	12	30	15	12	46	m	108	4,040	ZB-ZO-CS-0-05426
BINDAX-S, type S 160-8/10	160	8	10	15	14	32	m	84pcs=105m	5,760	ZB-ZO-CS-0-05427
BINDAX-S, type S 160-8/15	160	8	15	15	14	32	m	84	3,840	ZB-ZO-CS-0-02443
BINDAX-S, type S 160-8/20	160	8	20	15	14	32	m	84	3,370	ZB-ZO-CS-0-02444
BINDAX-S, type S 160-8/25	160	8	25	15	14	32	m	84	3,010	ZB-ZO-CS-0-02445
BINDAX-S, type S 160-8/30	160	8	30	15	14	32	m	84	2,408	ZB-ZO-CS-0-05428
BINDAX-S, type S 160-10/10	160	10	10	15	14	39	m	84	7,240	ZB-ZO-CS-0-02429
BINDAX-S, type S 160-10/15	160	10	15	15	14	39	m	84	5,440	ZB-ZO-CS-0-02430
BINDAX-S, type S 160-10/20	160	10	20	15	14	39	m	84	4,490	ZB-ZO-CS-0-02432
BINDAX-S, type S 160-10/25	160	10	25	15	14	39	m	84	3,742	ZB-ZO-CS-0-05431
BINDAX-S, type S 160-10/30	160	10	30	15	14	39	m	84	2,993	ZB-ZO-CS-0-05432
BINDAX-S, type S 160-12/10	160	12	10	15	14	43	m	84	12,120	ZB-ZO-CS-0-02436
BINDAX-S, type S 160-12/15	160	12	15	15	14	46	m	84	7,900	ZB-ZO-CS-0-02438
BINDAX-S, type S 160-12/20	160	12	20	15	14	46	m	84	6,340	ZB-ZO-CS-0-02439
BINDAX-S, type S 160-12/25	160	12	25	15	14	46	m	84	5,283	ZB-ZO-CS-0-05433
BINDAX-S, type S 160-12/30	160	12	30	15	14	46	m	84	4,227	ZB-ZO-CS-0-05434
BINDAX-S, type S 190-8/10	190	8	10	15	17	32	m	72pcs=90m	6,315	ZB-ZO-CS-0-02459
BINDAX-S, type S 190-8/15	190	8	15	15	17	32	m	72	4,210	ZB-ZO-CS-0-02460
BINDAX-S, type S 190-8/20	190	8	20	15	17	32	m	72	3,550	ZB-ZO-CS-0-02461
BINDAX-S, type S 190-8/25	190	8	25	15	17	32	m	72	3,370	ZB-ZO-CS-0-02462
BINDAX-S, type S 190-8/30	190	8	30	15	17	32	m	72	2,696	ZB-ZO-CS-0-05436
BINDAX-S, type S 190-10/10	190	10	10	15	17	39	m	72	7,860	ZB-ZO-CS-0-02448
BINDAX-S, type S 190-10/15	190	10	15	15	17	39	m	72	6,150	ZB-ZO-CS-0-02449
BINDAX-S, type S 190-10/20	190	10	20	15	17	39	m	72	5,050	ZB-ZO-CS-0-02450
BINDAX-S, type S 190-10/25	190	10	25	15	17	39	m	72	4,208	ZB-ZO-CS-0-05437
BINDAX-S, type S 190-10/30	190	10	30	15	17	39	m	72	3,367	ZB-ZO-CS-0-05438
BINDAX-S, type S 190-12/10	190	12	10	15	17	46	m	72	12,825	ZB-ZO-CS-0-02453
BINDAX-S, type S 190-12/15	190	12	15	15	17	46	m	72	8,550	ZB-ZO-CS-0-02454
BINDAX-S, type S 190-12/20	190	12	20	15	17	46	m	72	6,980	ZB-ZO-CS-0-02455
BINDAX-S, type S 190-12/25	190	12	25	15	17	46	m	72	5,817	ZB-ZO-CS-0-02456
BINDAX-S, type S 190-12/30	190	12	30	15	17	46	m	72	4,653	ZB-ZO-CS-0-05440
BINDAX-S, type S 220-8/10	220	8	10	15	20	32	m	48pcs=60m	6,555	ZB-ZO-CS-0-05442
BINDAX-S, type S 220-8/15	220	8	15	15	20	32	m	48	4,370	ZB-ZO-CS-0-02478
BINDAX-S, type S 220-8/20	220	8	20	15	20	32	m	48	3,825	ZB-ZO-CS-0-02479
BINDAX-S, type S 220-8/25	220	8	25	15	20	32	m	48	3,570	ZB-ZO-CS-0-02480
BINDAX-S, type S 220-8/30	220	8	30	15	20	32	m	48	2,856	ZB-ZO-CS-0-05444
BINDAX-S, type S 220-10/10	220	10	10	15	20	39	m	48	8,295	ZB-ZO-CS-0-02465
BINDAX-S, type S 220-10/15	220	10	15	15	20	39	m	48	6,370	ZB-ZO-CS-0-02466
BINDAX-S, type S 220-10/20	220	10	20	15	20	39	m	48	5,320	ZB-ZO-CS-0-02467
BINDAX-S, type S 220-10/25	220	10	25	15	20	39	m	48	4,433	ZB-ZO-CS-0-02468
BINDAX-S, type S 220-10/30	220	10	30	15	20	39	m	48	3,547	ZB-ZO-CS-0-05473

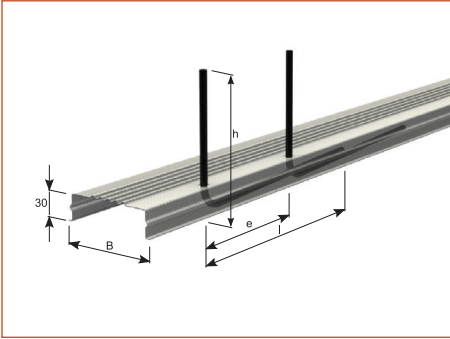
Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type S 220-12/10	220	12	10	15	20	46	m	48	13,358	ZB-ZO-CS-0-02470
BINDAX-S, type S 220-12/15	220	12	15	15	20	46	m	48	8,905	ZB-ZO-CS-0-02472
BINDAX-S, type S 220-12/20	220	12	20	15	20	46	m	48	7,205	ZB-ZO-CS-0-02474
BINDAX-S, type S 220-12/25	220	12	25	15	20	46	m	48	6,004	ZB-ZO-CS-0-02475
BINDAX-S, type S 220-12/30	220	12	30	15	20	46	m	48	4,803	ZB-ZO-CS-0-05474
BINDAX-S, type S 240-8/10	240	8	10	15	22	32	m	48pcs=60m	7,110	ZB-ZO-CS-0-05475
BINDAX-S, type S 240-8/15	240	8	15	15	22	32	m	48	4,740	ZB-ZO-CS-0-02497
BINDAX-S, type S 240-8/20	240	8	20	15	22	32	m	48	4,100	ZB-ZO-CS-0-02498
BINDAX-S, type S 240-8/25	240	8	25	15	22	32	m	48	3,770	ZB-ZO-CS-0-05476
BINDAX-S, type S 240-8/30	240	8	30	15	22	32	m	48	3,016	ZB-ZO-CS-0-05477
BINDAX-S, type S 240-10/10	240	10	10	15	22	39	m	48	8,730	ZB-ZO-CS-0-02486
BINDAX-S, type S 240-10/15	240	10	15	15	22	39	m	48	6,590	ZB-ZO-CS-0-02487
BINDAX-S, type S 240-10/20	240	10	20	15	22	39	m	48	5,590	ZB-ZO-CS-0-02488
BINDAX-S, type S 240-10/25	240	10	25	15	22	39	m	48	4,658	ZB-ZO-CS-0-05478
BINDAX-S, type S 240-10/30	240	10	30	15	22	39	m	48	3,727	ZB-ZO-CS-0-05479
BINDAX-S, type S 240-12/10	240	12	10	15	22	46	m	48	13,890	ZB-ZO-CS-0-02491
BINDAX-S, type S 240-12/15	240	12	15	15	22	46	m	48	9,260	ZB-ZO-CS-0-02492
BINDAX-S, type S 240-12/20	240	12	20	15	22	46	m	48	7,430	ZB-ZO-CS-0-02493
BINDAX-S, type S 240-12/25	240	12	25	15	22	46	m	48	6,192	ZB-ZO-CS-0-05480
BINDAX-S, type S 240-12/30	240	12	30	15	22	46	m	48	4,953	ZB-ZO-CS-0-05481

BINDAX - type WH

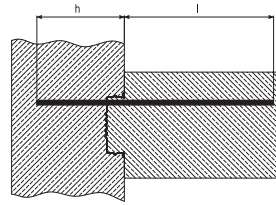


Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type WH 60-8/10	60	8	10	15	8	32	m	200pcs=250m	2,610	ZB-ZO-CS-0-02520
BINDAX-S, type WH 60-8/15	60	8	15	15	8	32	m	200	1,740	ZB-ZO-CS-0-02521
BINDAX-S, type WH 60-8/20	60	8	20	15	8	32	m	200	1,470	ZB-ZO-CS-0-02522
BINDAX-S, type WH 60-8/25	60	8	25	15	8	32	m	200	1,225	ZB-ZO-CS-0-02523
BINDAX-S, type WH 60-8/30	60	8	30	15	8	32	m	200	0,980	ZB-ZO-CS-0-02524
BINDAX-S, type WH 60-10/15	60	10	15	15	8	39	m	200	2,350	ZB-ZO-CS-0-02517
BINDAX-S, type WH 60-10/20	60	10	20	15	8	39	m	200	1,910	ZB-ZO-CS-0-02518
BINDAX-S, type WH 60-10/25	60	10	25	15	8	39	m	200	1,592	ZB-ZO-CS-0-02519
BINDAX-S, type WH 80-8/15	80	8	15	15	8	32	m	150pcs=187,5m	1,840	ZB-ZO-CS-0-02557
BINDAX-S, type WH 80-8/20	80	8	20	15	8	32	m	150	1,560	ZB-ZO-CS-0-02558
BINDAX-S, type WH 80-8/25	80	8	25	15	8	32	m	150	1,400	ZB-ZO-CS-0-02559
BINDAX-S, type WH 80-8/30	80	8	30	15	8	32	m	150	1,120	ZB-ZO-CS-0-02560
BINDAX-S, type WH 80-10/15	80	10	15	15	8	39	m	150	2,680	ZB-ZO-CS-0-02550
BINDAX-S, type WH 80-10/20	80	10	20	15	8	39	m	150	2,150	ZB-ZO-CS-0-02551
BINDAX-S, type WH 80-10/25	80	10	25	15	8	39	m	150	1,792	ZB-ZO-CS-0-02552

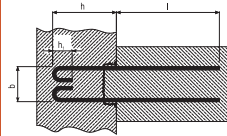
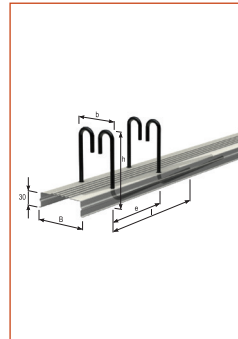
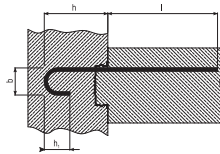
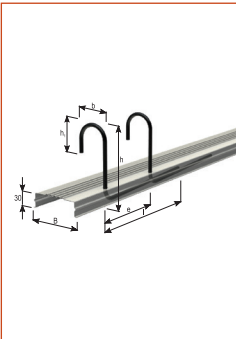
Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type WH 80-12/10	80	12	10	15	8	39	m	120pcs = 150m	6,607	ZB-ZO-CS-0-02553
BINDAX-S, type WH 80-12/15	80	12	15	15	8	46	m	150pcs = 187,5m	3,850	ZB-ZO-CS-0-02554
BINDAX-S, type WH 80-12/20	80	12	20	15	8	46	m	150	3,390	ZB-ZO-CS-0-02555
BINDAX-S, type WH 80-12/25	80	12	25	15	8	46	m	150	2,825	ZB-ZO-CS-0-02556



BINDAX - type W



Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type W 80-8/15	80	8	15	15	-	32	m	150pcs = 187,5m	1,960	ZB-ZO-CS-0-02548
BINDAX-S, type W 80-8/20	80	8	20	15	-	32	m	150	1,470	ZB-ZO-CS-0-02549

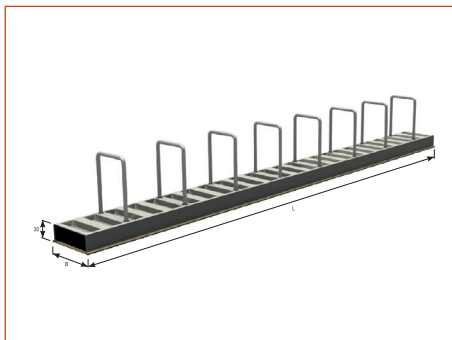
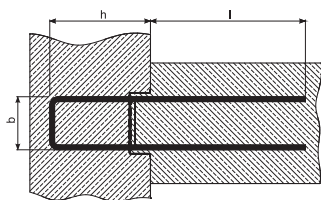


BINDAX - type H

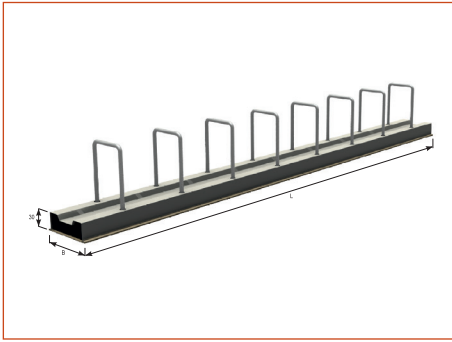
Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	h ₁ [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type H 60-8/10	60	8	10	15	7	6	32	m	200pcs=250m	2,610	ZB-ZO-CS-0-02508
BINDAX-S, type H 60-8/15	60	8	15	15	7	6	32	m	200	1,740	ZB-ZO-CS-0-02509
BINDAX-S, type H 60-8/20	60	8	20	15	7	6	32	m	200	1,560	ZB-ZO-CS-0-02510
BINDAX-S, type H 60-8/25	60	8	25	15	7	6	32	m	200	1,300	ZB-ZO-CS-0-02511

Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	h ₁ [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type H 60-8/30	60	8	30	15	7	6	32	m	200	1,040	ZB-ZO-CS-0-02512
BINDAX-S, type H 60-10/10	60	10	10	15	8	6	32	m	200	4,150	ZB-ZO-CS-0-05482
BINDAX-S, type H 60-10/15	60	10	15	15	8	6	39	m	200	2,970	ZB-ZO-CS-0-02503
BINDAX-S, type H 60-10/20	60	10	20	15	8	6	39	m	200	2,410	ZB-ZO-CS-0-02504
BINDAX-S, type H 60-10/25	60	10	25	15	8	6	39	m	200	2,001	ZB-ZO-CS-0-02505
BINDAX-S, type H 60-10/30	60	10	30	15	8	6	39	m	200	1,607	ZB-ZO-CS-0-02506
BINDAX-S, type H 80-8/10	80	8	10	15	7	6	32	m	150pcs=187,5m	2,913	ZB-ZO-CS-0-02535
BINDAX-S, type H 80-8/15	80	8	15	15	7	6	32	m	150	2,140	ZB-ZO-CS-0-02536
BINDAX-S, type H 80-8/20	80	8	20	15	7	6	32	m	150	1,870	ZB-ZO-CS-0-02537
BINDAX-S, type H 80-8/25	80	8	25	15	7	6	32	m	150	1,690	ZB-ZO-CS-0-02538
BINDAX-S, type H 80-8/30	80	8	30	15	7	6	32	m	150	1,352	ZB-ZO-CS-0-02539
BINDAX-S, type H 80-10/10	80	10	10	15	8	6	39	m	150	4,180	ZB-ZO-CS-0-02525
BINDAX-S, type H 80-10/15	80	10	15	15	8	6	39	m	150	3,380	ZB-ZO-CS-0-02526
BINDAX-S, type H 80-10/20	80	10	20	15	8	6	39	m	150	2,770	ZB-ZO-CS-0-02527
BINDAX-S, type H 80-10/25	80	10	25	15	8	6	39	m	150	2,308	ZB-ZO-CS-0-02528
BINDAX-S, type H 80-10/30	80	10	30	15	8	6	39	m	150	1,847	ZB-ZO-CS-0-02529
BINDAX-S, type H 80-12/10	80	12	10	15	9,5	8	39	m	120	6,898	ZB-ZO-CS-0-02530
BINDAX-S, type H 80-12/15	80	12	15	15	9,5	8	46	m	150	4,690	ZB-ZO-CS-0-02531
BINDAX-S, type H 80-12/20	80	12	20	15	9,5	8	46	m	150	3,700	ZB-ZO-CS-0-02532
BINDAX-S, type H 80-12/25	80	12	25	15	9,5	8	46	m	150	3,083	ZB-ZO-CS-0-02533
BINDAX-S, type H 80-12/30	80	12	30	15	9,5	8	46	m	150	2,467	ZB-ZO-CS-0-02534
BINDAX-S, type 2H 110-12/15	110	12	15	15	9,5	9	43	m	80	9,300	ZB-ZO-CS-0-02403

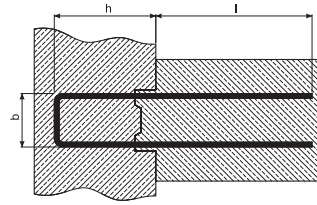
BINDAX - type TP



Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/pallet]	Weight [kg/m]	Article no.
BINDAX-S, type TP 110-10/15	110	10	15	15	9	39	m	80=100 m	6,003	ZB-ZO-CS-0-05521
BINDAX-S, type TP 110-10/20	110	10	20	15	9	39	m	80	4,937	ZB-ZO-CS-0-05522
BINDAX-S, type TP 140-10/15	140	10	15	15	12	39	m	108=135 m	6,429	ZB-ZO-CS-0-05523
BINDAX-S, type TP 140-10/20	140	10	20	15	12	39	m	108	5,333	ZB-ZO-CS-0-05524
BINDAX-S, type TP 140-12/15	140	12	15	15	12	46	m	108	9,206	ZB-ZO-CS-0-05525
BINDAX-S, type TP 140-12/20	140	12	20	15	12	46	m	108	7,416	ZB-ZO-CS-0-05526
BINDAX-S, type TP 160-10/15	160	10	15	15	14	39	m	84=105 m	7,685	ZB-ZO-CS-0-05527
BINDAX-S, type TP 160-10/20	160	10	20	15	14	39	m	84	6,569	ZB-ZO-CS-0-05528
BINDAX-S, type TP 160-12/15	160	12	15	15	14	46	m	84	10,497	ZB-ZO-CS-0-05529
BINDAX-S, type TP 160-12/20	160	12	20	15	14	46	m	84	8,679	ZB-ZO-CS-0-05530
BINDAX-S, type TP 190-10/15	190	10	15	15	17	39	m	72=90 m	8,345	ZB-ZO-CS-0-05531
BINDAX-S, type TP 190-10/20	190	10	20	15	17	39	m	72	7,200	ZB-ZO-CS-0-05532
BINDAX-S, type TP 190-12/15	190	12	15	15	17	46	m	72	11,210	ZB-ZO-CS-0-05533
BINDAX-S, type TP 190-12/20	190	12	20	15	17	46	m	72	9,349	ZB-ZO-CS-0-05534

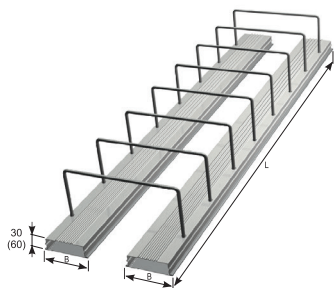


BINDAX - type TW



Symbol	Box width B [mm]	Rebar diameter Ø [mm]	Rebar spacing e [cm]	h [cm]	b [cm]	l [cm]	Unit	Package [pcs/ pallet]	Weight [kg/m]	Article no.
BINDAX-S, type TW 110-10/15	110	10	15	15	9	39	m	80=100 m	5,906	ZB-ZO-CS-0-05535
BINDAX-S, type TW 110-10/20	110	10	20	15	9	39	m	80	4,840	ZB-ZO-CS-0-05536
BINDAX-S, type TW 140-10/15	140	10	15	15	12	39	m	108=135 m	6,380	ZB-ZO-CS-0-05537
BINDAX-S, type TW 140-10/20	140	10	20	15	12	39	m	108	5,284	ZB-ZO-CS-0-05538
BINDAX-S, type TW 140-12/15	140	12	15	15	12	46	m	108	9,158	ZB-ZO-CS-0-05539
BINDAX-S, type TW 140-12/20	140	12	20	15	12	46	m	108	7,367	ZB-ZO-CS-0-05540
BINDAX-S, type TW 160-10/15	160	10	15	15	14	39	m	84=105 m	6,519	ZB-ZO-CS-0-05541
BINDAX-S, type TW 160-10/20	160	10	20	15	14	39	m	84	5,403	ZB-ZO-CS-0-05542
BINDAX-S, type TW 160-12/15	160	12	15	15	14	46	m	84	9,331	ZB-ZO-CS-0-05543
BINDAX-S, type TW 160-12/20	160	12	20	15	14	46	m	84	7,513	ZB-ZO-CS-0-05544
BINDAX-S, type TW 190-10/15	190	10	15	15	17	39	m	72=90 m	7,169	ZB-ZO-CS-0-05545
BINDAX-S, type TW 190-10/20	190	10	20	15	17	39	m	72	6,023	ZB-ZO-CS-0-05546
BINDAX-S, type TW 190-12/15	190	12	15	15	17	46	m	72	10,033	ZB-ZO-CS-0-05547
BINDAX-S, type TW 190-12/20	190	12	20	15	17	46	m	72	8,172	ZB-ZO-CS-0-05548

BINDAX - non standard elements



BINDAX type B. Symetric loop in two boxes.

BINDAX - N, typ KO 160 - 10 / 20, $h=15$ cm, $b=14$ cm, $l=48$ cm

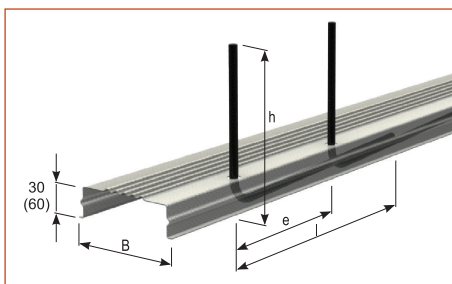
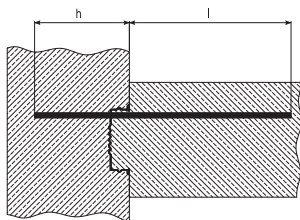
non standard element box width rebar diameter rebar spacing

Standard dimensions of BINDAX reinforcement:

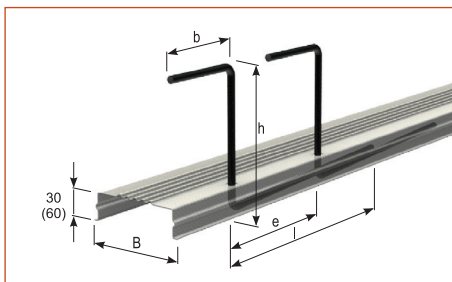
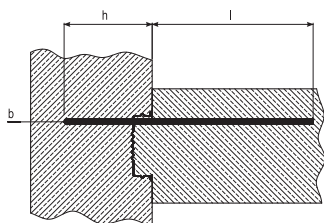
- standard length 1,25m, other lengths on request,
- width of the box: 60, 80, 110, 140, 160, 190, 220, 240 mm
- rebar diameter: 8, 10, 12, 14, 16 mm
- spacing: 10, 15, 20, 25, 30 cm - different spacing on request
- width of the loop must be at least 2 cm smaller than width of the box,
- possibility to increase thickness of the box

Examples of non standard elements:

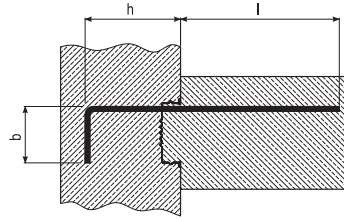
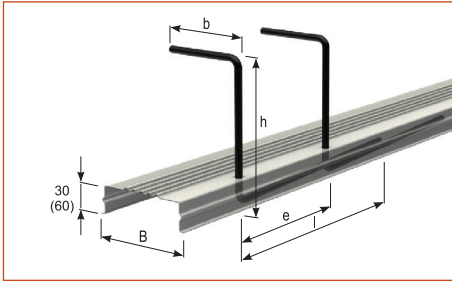
BINDAX - type W



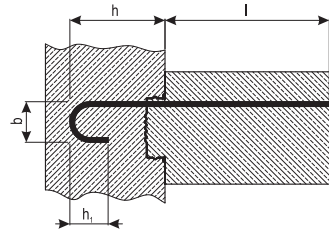
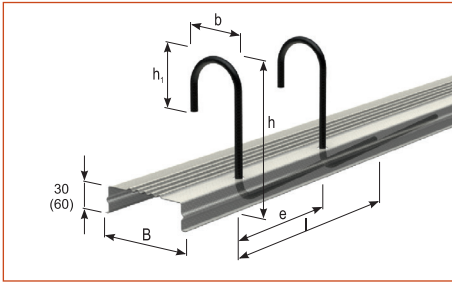
BINDAX - type WH



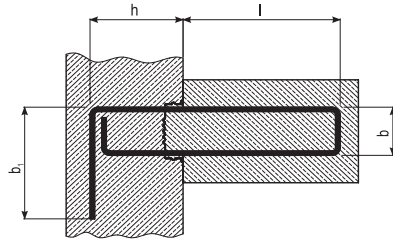
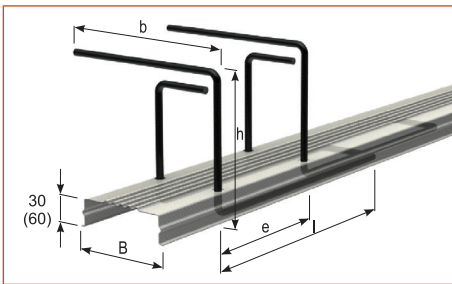
BINDAX - type WS



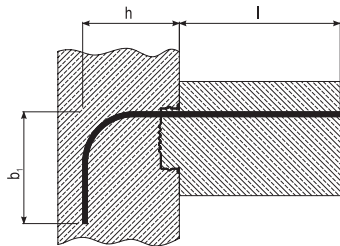
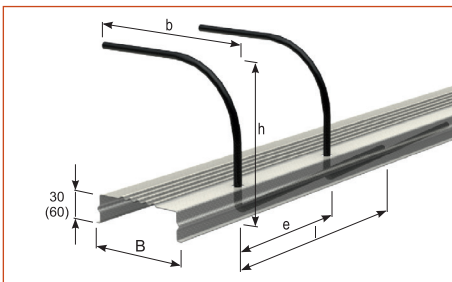
BINDAX - type H



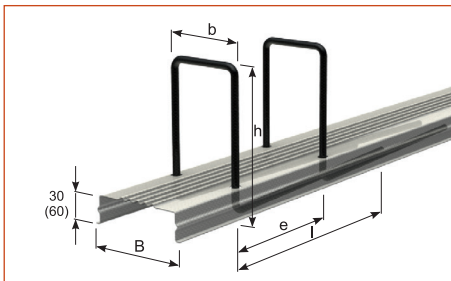
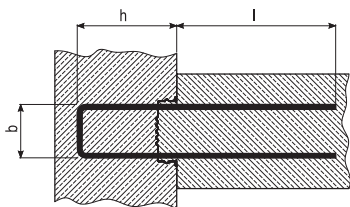
BINDAX - type BK



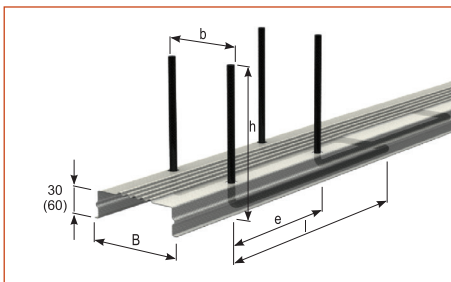
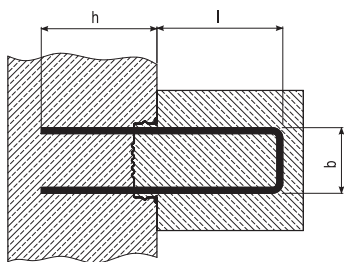
BINDAX - type BA



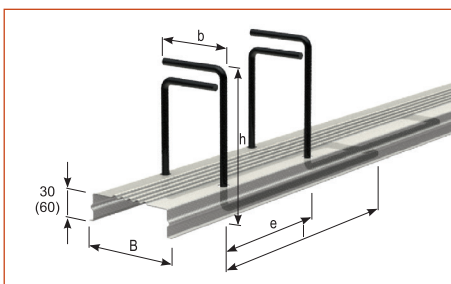
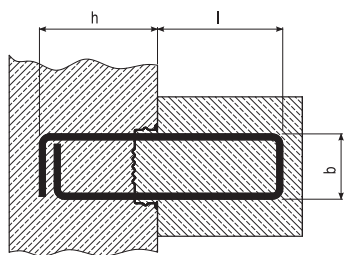
BINDAX - type S



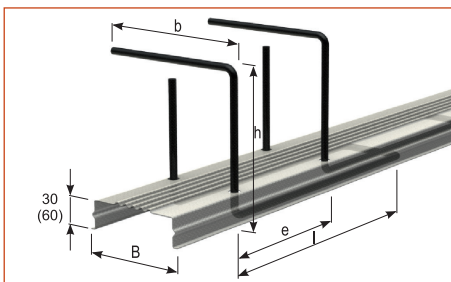
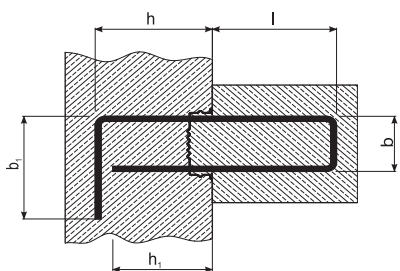
BINDAX - type KO



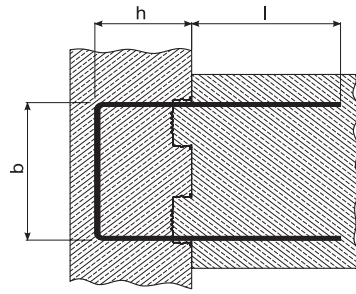
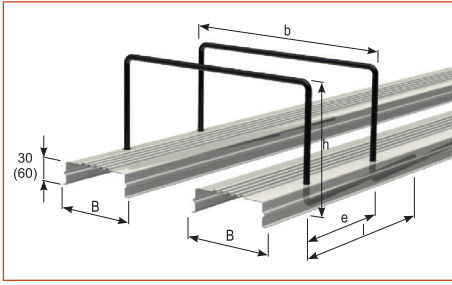
BINDAX - type K



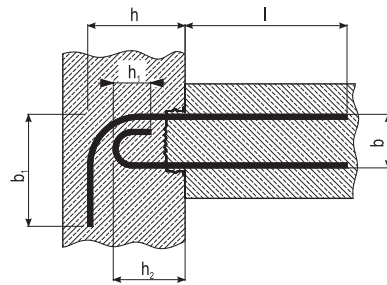
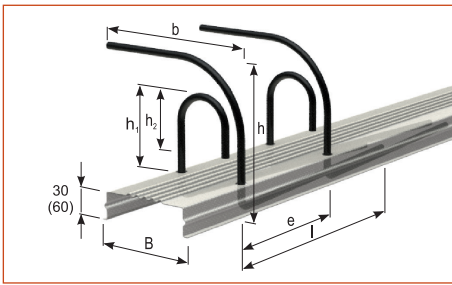
BINDAX - type KH



BINDAX - type B



BINDAX - type BA+H

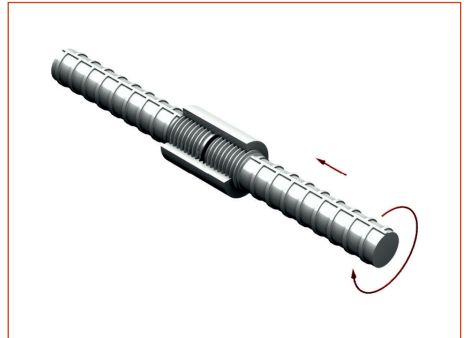
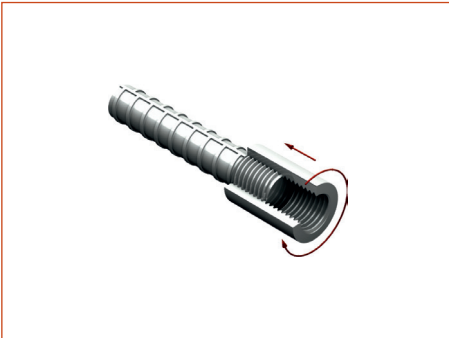


Rebar couplers FORTEC® BF

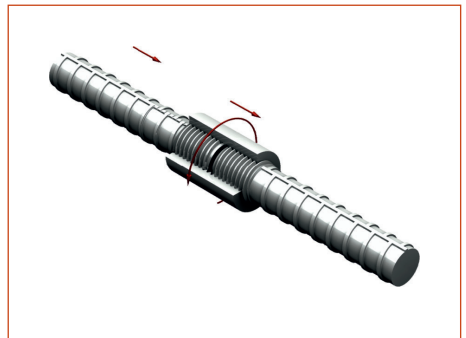
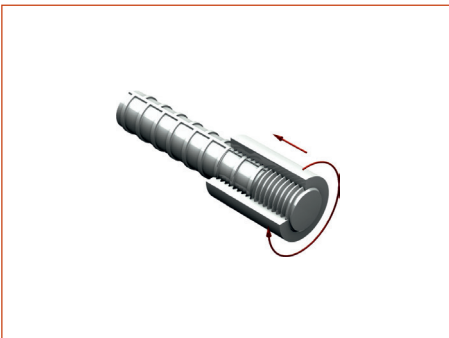
System of rebar mechanical connection in reinforced structures.
Connection guarantees transfer of full load and provide 100 % of load capacity.

National Technical Assessment ITB-KOT-2019/0863
National Technical Assessment IBDiM-KOT-2020

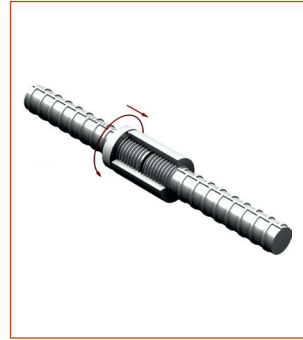
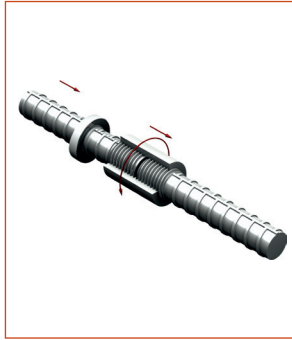
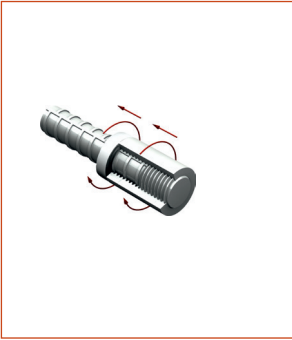
Standard connection (type M)



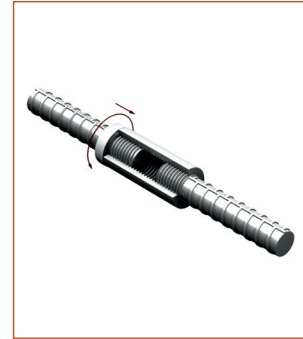
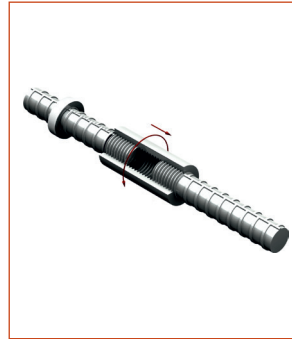
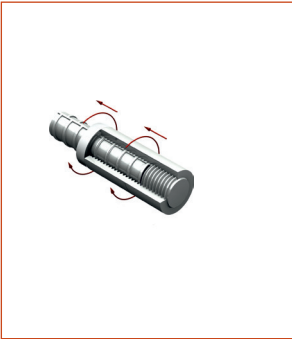
Positional connection (type MB)



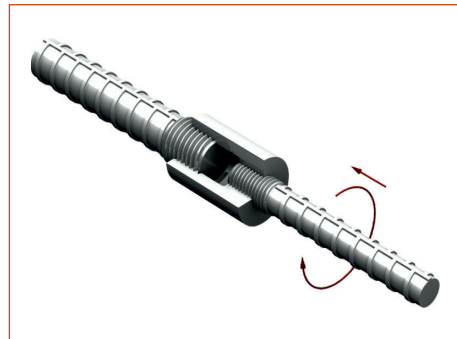
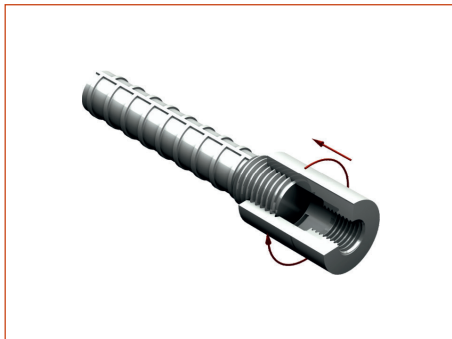
Positional connection with stabilisation (type MC)



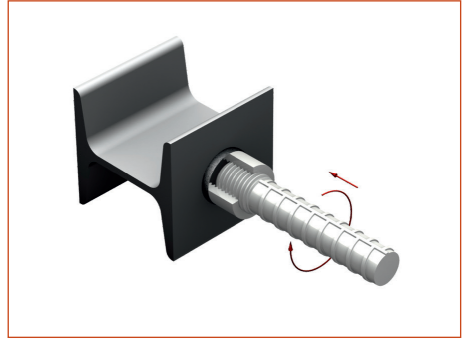
Distancing connection (type MD)



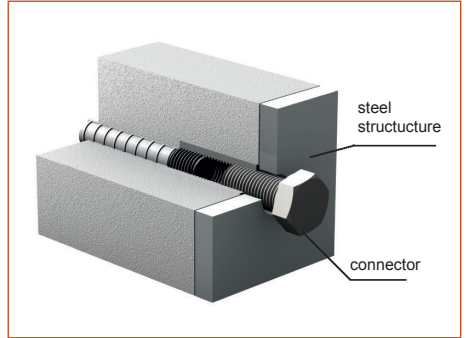
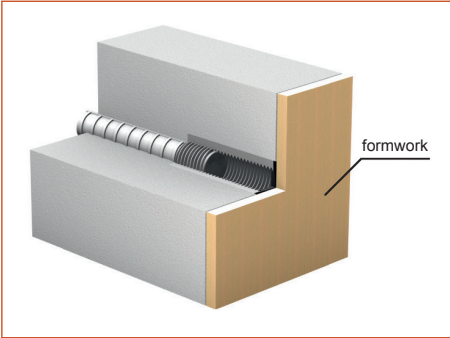
Reduction connection (type MR)

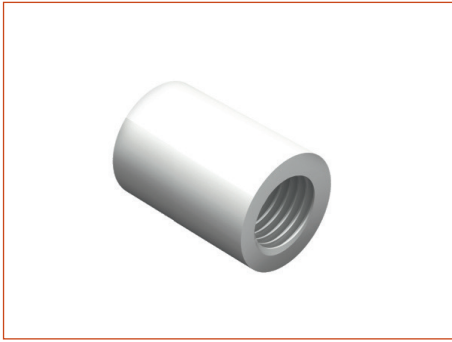


Welded connection (type W)

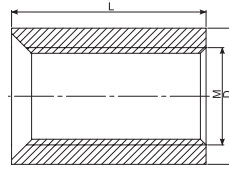


Screw anchoring (type F)





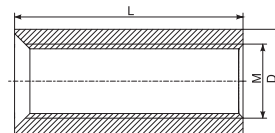
Standard coupler BF



Symbol	Rebar diameter Ø [mm]	Thread [mm]	Outer diameter D [mm]	Length L [mm]	Sale unit	Article no.
BF12	12	M14x2,0	20	28	pcs	ZB-ZS-BF-0-59761
BF14	14	M16x2,0	24	36	pcs	ZB-ZS-BF-0-59762
BF16	16	M20x2,5	25,6	44	pcs	ZB-ZS-BF-0-59763
BF18	18	M22x2,5	34	49	pcs	ZB-ZS-BF-0-59764
BF20	20	M24x3,0	31	52	pcs	ZB-ZS-BF-0-59765
BF22	22	M27x3,0	39	66	pcs	ZB-ZS-BF-0-59766
BF25	25	M30x3,5	39	66	pcs	ZB-ZS-BF-0-59767
BF28	28	M33x3,5	43,5	71	pcs	ZB-ZS-BF-0-59768
BF32	32	M36x4,0	47,8	78	pcs	ZB-ZS-BF-0-59769
BFC36	36	M42x4,5	55	90	pcs	ZB-ZS-BF-4-59770
BFC40	40	M45x4,5	60	97	pcs	ZB-ZS-BF-4-59771

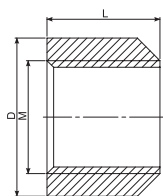


Distancing coupler BB



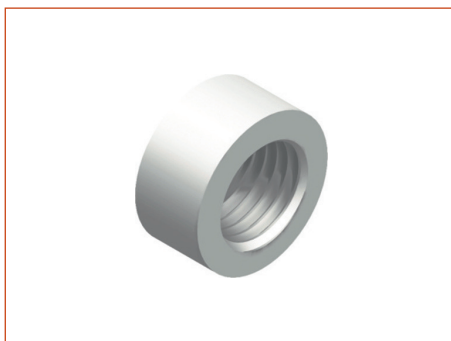
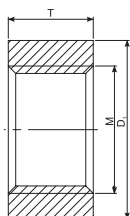
Symbol	Rebar diameter Ø [mm]	Thread [mm]	Outer diameter D [mm]	Length L [mm]	Sale unit	Article no.
BB16	16	M22x2,5	28	66	pcs	ZB-ZS-BF-4-59772
BB20	20	M24x3,0	32	78	pcs	ZB-ZS-BF-4-59773
BB22	22	M27x3,0	40	86	pcs	ZB-ZS-BF-4-59774
BB25	25	M30x3,5	40	97	pcs	ZB-ZS-BF-4-59775
BB28	28	M33x3,5	45	108	pcs	ZB-ZS-BF-4-59776
BB32	32	M36x4,0	50	120	pcs	ZB-ZS-BF-4-59777
BB36	36	M42x4,5	58	138	pcs	ZB-ZS-BF-4-59778
BB40	40	M45x4,5	62	160	pcs	ZB-ZS-BF-4-59779

Welding coupler WB

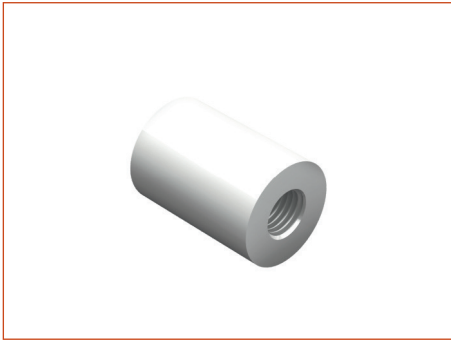


Symbol	Rebar diameter \varnothing [mm]	Thread [mm]	Outer diameter D [mm]	Length L [mm]	Sale unit	Article no.
WB14	12	M14x2,0	22	18	pcs	ZB-ZS-BF-4-59780
WB16	14	M16x2,0	28	27	pcs	ZB-ZS-BF-4-59781
WB20	16	M20x2,5	34	33	pcs	ZB-ZS-BF-4-59782
WB22	18	M22x2,5	38	35	pcs	ZB-ZS-BF-4-59783
WB24	20	M24x3,0	38	36	pcs	ZB-ZS-BF-4-59784
WB27	22	M27x3,0	45	39	pcs	ZB-ZS-BF-4-59785
WB30	25	M30x3,5	45	37	pcs	ZB-ZS-BF-4-59786
WB33	28	M33x3,5	55	40	pcs	ZB-ZS-BF-4-59787
WB36	32	M36x4,0	55	44	pcs	ZB-ZS-BF-4-59788
WB42	36	M42x4,5	72	51	pcs	ZB-ZS-BF-4-59789
WB45	40	M45x4,5	72	54	pcs	ZB-ZS-BF-4-59790

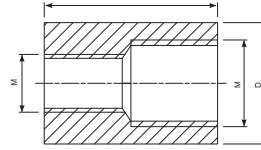
Round lock nut LN



Symbol	Rebar diameter \varnothing [mm]	Thread [mm]	Outer diameter D ₁ [mm]	T [mm]	Sale unit	Article no.
LN14	12	M14x2,0	20	10,0	pcs	ZB-ZS-BF-4-59799
LN16	14	M16x2,0	24	10,0	pcs	ZB-ZS-BF-4-59800
LN20	16	M20x2,5	28	10,0	pcs	ZB-ZS-BF-4-59801
LN22	18	M22x2,5	30	10,0	pcs	ZB-ZS-BF-4-59802
LN24	20	M24x3,0	32	10,0	pcs	ZB-ZS-BF-4-59803
LN27	22	M27x3,0	36	13,5	pcs	ZB-ZS-BF-4-59804
LN30	25	M30x3,5	40	12,0	pcs	ZB-ZS-BF-4-59805
LN33	28	M33x3,5	45	16,5	pcs	ZB-ZS-BF-4-59806
LN36	32	M36x4,0	50	15,0	pcs	ZB-ZS-BF-4-59807
LN40	36	M42x4,5	58	21,0	pcs	ZB-ZS-BF-4-59808
LN45	40	M45x4,5	62	18,0	pcs	ZB-ZS-BF-4-59809

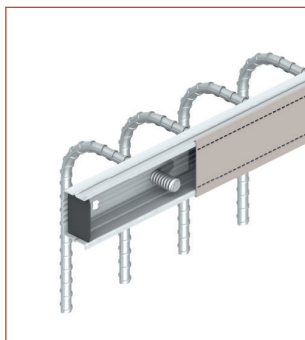


Reduction coupler DT



Symbol	Rebar diameter Ø [mm]	Thread [mm]	Outer diameter D [mm]	Length L [mm]	Sale unit	Article no.
DT14-12	14-12	M16x2,0/M14x2,0	24	38	pcs	ZB-ZS-BF-4-59858
DT16-14	16-14	M20x2,5/M16x2,0	26	46	pcs	ZB-ZS-BF-4-59859
DT20-12	20-12	M24x3,0/M14x2,0	30	50	pcs	ZB-ZS-BF-4-59860
DT20-14	20-14	M24x3,0/M16x2,0	30	56	pcs	ZB-ZS-BF-4-59861
DT20-16	20-16	M24x3,0/M20x2,5	30	58	pcs	ZB-ZS-BF-4-59862
DT22-16	22-16	M27x3,0/M20x2,5	36	59	pcs	ZB-ZS-BF-4-59863
DT22-20	22-20	M27x3,0/M24x3,0	38	63	pcs	ZB-ZS-BF-4-59864
DT25-16	25-16	M30x3,5/M20x2,5	38	64	pcs	ZB-ZS-BF-4-59865
DT25-20	25-20	M30x3,5/M24x3,0	38	68	pcs	ZB-ZS-BF-4-59866
DT25-22	25-22	M30x3,5/M27x3,0	45	71	pcs	ZB-ZS-BF-4-59867
DT28-16	28-16	M33x3,5/M20x2,5	40	67	pcs	ZB-ZS-BF-4-59868
DT28-20	28-20	M33x3,5/M24x3,0	40	71	pcs	ZB-ZS-BF-4-59869
DT28-22	28-22	M33x3,5/M27x3,0	45	74	pcs	ZB-ZS-BF-4-59870
DT28-25	28-25	M33x3,5/M30x3,5	45	77	pcs	ZB-ZS-BF-4-59871
DT32-16	32-16	M36x4,0/M20x2,5	45	72	pcs	ZB-ZS-BF-4-59872
DT32-20	32-20	M36x4,0/M24x3,0	45	76	pcs	ZB-ZS-BF-4-59873
DT32-22	32-22	M36x4,0/M27x3,0	45	79	pcs	ZB-ZS-BF-4-59874
DT32-25	32-25	M36x4,0/M30x3,5	45	82	pcs	ZB-ZS-BF-4-59875
DT32-28	32-28	M36x4,0/M33x3,5	48	85	pcs	ZB-ZS-BF-4-59876
DT36-25	36-25	M42x4,5/M30x3,5	52	90	pcs	ZB-ZS-BF-4-59877
DT36-28	36-28	M42x4,5/M33x3,5	55	93	pcs	ZB-ZS-BF-4-59878
DT36-32	36-32	M42x4,5/M36x4,0	60	96	pcs	ZB-ZS-BF-4-59879
DT40-25	40-25	M45x4,5/M30x3,5	55	93	pcs	ZB-ZS-BF-4-59880
DT 40-28	40-28	M45x4,5/M33x3,5	55	96	pcs	ZB-ZS-BF-4-59881
DT 40-32	40-32	M45x4,5/M36x4,0	62	99	pcs	ZB-ZS-BF-4-59882
DT 40-36	40-36	M46x4,5/M42x4,5	62	105	pcs	ZB-ZS-BF-4-59883

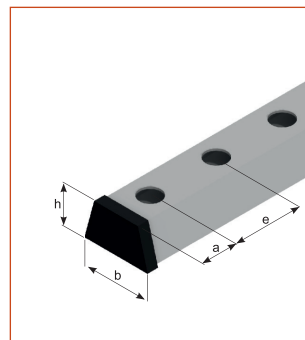
Mounting accessories



Steel box



Nailing grip



Trapezoidal box PVC

Steel box

Steel box allows to instal rebars in line way and very precisely. Using it you can create channel inside the concrete which will transfer higher shear forces. Standard length of the box is 1,25m, other lengths on request. Standard thickness of the box is 30mm.

Nailing grip

Symbol	Rebar diameter \varnothing [mm]	Thread D1 [mm]	Sale unit	Weight [kg/pcs]	Article no..
Nailing grip PVC M14	12	14	pcs	0,080	ZB-ZS-FT-0-42681
Nailing grip PVC M16	14	16	pcs	0,080	ZB-ZS-FT-0-43290
Nailing grip PVC M20	16	20	pcs	0,100	ZB-ZS-FT-0-43291
Nailing grip PVC M24	20	24	pcs	0,100	ZB-ZS-FT-0-43292
Nailing grip PVC M27	22	27	pcs	0,100	ZB-ZS-FT-0-46863
Nailing grip PVC M30	25	30	pcs	0,100	ZB-ZS-FT-0-43293
Steel nailing grip M33	28	33	pcs	0,250	ZB-ZS-FT-4-43294
Steel nailing grip M36	32	36	pcs	0,270	ZB-ZS-FT-4-43295

It is for bars with coupler fixing to formwork. Height of grip $h=10$ mm, diameter of grip $D=58$ mm.

Trapezoidal box PVC

Symbol	Bar diameter \varnothing [mm]	Width b [mm]	Height h [mm]	Jednostka sprzedaży	Masa [kg/pcs]	Article no.
FORTEC trapezoidal box 60	12-20	60	35	1 m	0,52	ZB-ZS-BT-0-02577
FORTEC trapezoidal box 90	25-32	90	50	1 m	1,12	ZB-ZS-BT-0-02578
FORTEC plastic cap for 60 batten				pcs	0,75/100 pcs	ZB-ZS-BT-0-02608
FORTEC plastic cap for 90 batten				pcs	1,30/100 pcs	ZB-ZS-BT-0-02609

Making holes in batten (standard length 1m) should be adjusted to rebars diameter. Placing order it is necessary to write dimensions a and e (distance from the edge and between rebars).

Inquiry form

Lp.	Type	Rebar diameter \varnothing [mm]	Rebar length L [cm]	Dimensions						Bending diameter d_{BR}^* [mm]	Angle α	Quantity of elements [szt]
				x [mm]	x_1 [mm]	x_2 [mm]	y [mm]	y_1 [mm]	y_2 [mm]			

Placing order it is necessary to write element marking and proper dimensions: x, y, d_{BR} and α .

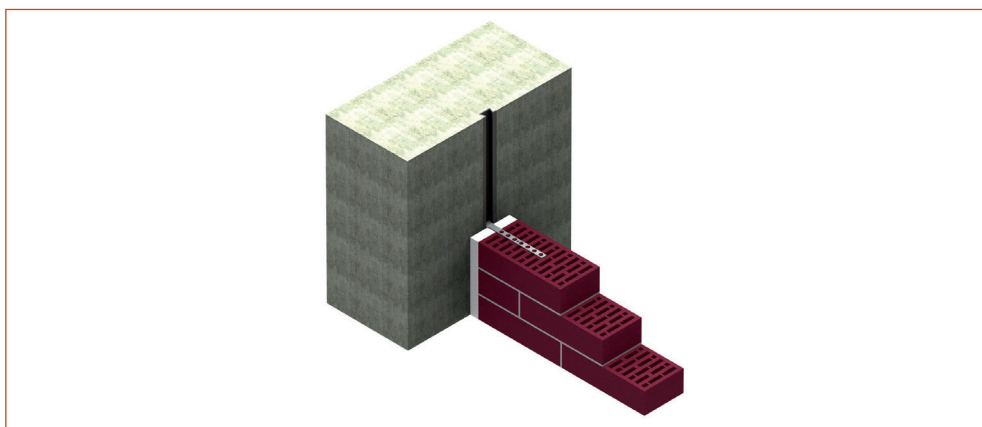
Couplers FORTEC BF are made of our steel or customer's steel.

* Minimal diameter of bending according PN-EN 1992.

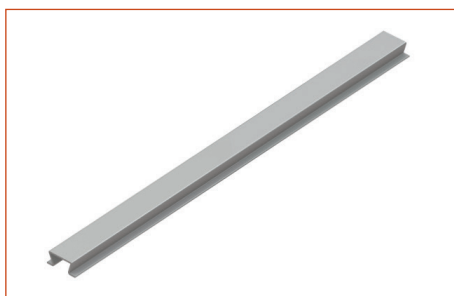
Rebar diameter	Minimal inner diameter of bending
$\varnothing \leq 16 \text{ mm}$	$4 \varnothing$
$\varnothing > 16 \text{ mm}$	$7 \varnothing$

Anchoring set MURO-BET

Is it used to quick and reliable connection brick walls with reinforced concrete structures. Sets consist of anchoring profiles and anchoring flat bars which are available in diferent lengths.



Symbol	Length [mm]	Unit	Package [bunch, box]	Article no.:
MURO-BET Anchoring profile	2500	m	100 m	ZB-ZK-MB-O-02384
MURO-BET Anchoring flat bar 120	120	pcs	200 pcs	ZB-ZK-MB-O-02380
MURO-BET Anchoring flat bar 180	180	pcs	200 pcs	ZB-ZK-MB-O-02381
MURO-BET Anchoring flat bar 240	240	pcs	200 pcs	ZB-ZK-MB-O-02382



Anchoring profile



Anchoring flat bar

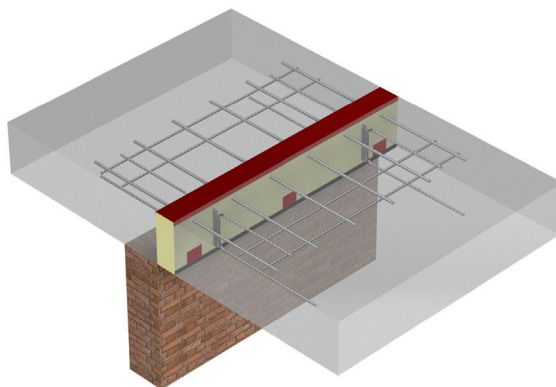


Balcony connectors FB

*Easy and reliable solution which reduces thermal bridges between external reinforced concrete elements (e. g. balcony) and floor slabs or walls.
Big range of types gives opportunity to design optimal solution for every investment.*

National Technical Assessment ITB-KOT-2017/0146

Connector FB-100 for cantilevered slabs

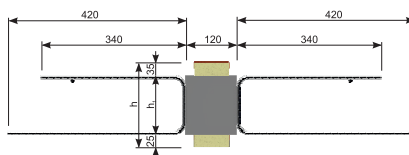
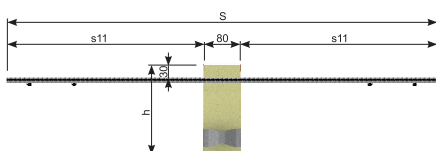


- Standard elements for floor slabs with thickness between 140 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of stainless steel
- Steel plates made of stainless steel
- Steel compression bearing made of stainless steel (for ceilings 14, 16 cm) or concrete bearing (ceilings 18 cm and higher)
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 104 6 × 10 - 2 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of steel plates



Connector FB-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter Ø [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm] s
				Bars	Steel plates	Compress. bearing				
FB-101 2x10-1	140	80	10	2	1	1	6	22	16	960
	160	100	10	2	1	1	8	27	22	960
	180	120	10	2	1	1	10	33	27	960
	200	140	10	2	1	1	11	38	31	960
	220	160	10	2	1	1	13	44	35	960
	240	180	10	2	1	1	15	49	40	960
	260	200	10	2	1	1	17	55	45	960
	280	220	10	2	1	1	18	60	48	960
	300	240	10	2	1	1	20	65	53	960
FB-102 2x14-1	140	80	14	2	1	2	12	22	16	1280
	160	100	14	2	1	2	15	27	22	1280
	180	120	14	2	1	2	19	33	27	1280
	200	140	14	2	1	2	22	38	31	1280
	220	160	14	2	1	2	26	44	35	1280
	240	180	14	2	1	2	29	49	40	1280
	260	200	14	2	1	2	32	55	45	1280
	280	220	14	2	1	2	36	60	48	1280
	300	240	14	2	1	2	39	65	53	1280
FB-102 2x14-2	140	80	14	2	2	2	12	43	32	1280
	160	100	14	2	2	2	15	54	44	1280
	180	120	14	2	2	2	19	65	54	1280
	200	140	14	2	2	2	22	76	62	1280
	220	160	14	2	2	2	26	87	70	1280
	240	180	14	2	2	2	29	98	80	1280
	260	200	14	2	2	2	32	109	90	1280
	280	220	14	2	2	2	36	120	96	1280
	300	240	14	2	2	2	39	130	106	1280
FB-103 4x10-1	140	80	10	4	1	2	13	22	16	960
	160	100	10	4	1	2	16	27	22	960
	180	120	10	4	1	2	20	33	27	960
	200	140	10	4	1	2	23	38	31	960
	220	160	10	4	1	2	26	44	35	960
	240	180	10	4	1	2	30	49	40	960
	260	200	10	4	1	2	33	55	45	960
	280	220	10	4	1	2	37	60	48	960
	300	240	10	4	1	2	40	65	53	960
FB-103 4x10-2	140	80	10	4	2	2	13	43	32	960
	160	100	10	4	2	2	16	54	44	960
	180	120	10	4	2	2	20	65	54	960
	200	140	10	4	2	2	23	76	62	960
	220	160	10	4	2	2	26	87	70	960
	240	180	10	4	2	2	30	98	80	960
	260	200	10	4	2	2	33	109	90	960
	280	220	10	4	2	2	37	120	96	960
	300	240	10	4	2	2	40	130	106	960

Connector FB-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates	Compress. bearing		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S	
FB-103 4x10-3	140	80	10	4	3	2	13	65	48	960
	160	100	10	4	3	2	16	81	66	960
	180	120	10	4	3	2	20	98	81	960
	200	140	10	4	3	2	23	114	93	960
	220	160	10	4	3	2	26	131	105	960
	240	180	10	4	3	2	30	147	120	960
	260	200	10	4	3	2	33	164	135	960
	280	220	10	4	3	2	37	180	144	960
300	240	10	4	3	2	40	195	159	960	
FB-104 6x10-1	140	80	10	6	1	3	19	22	16	960
	160	100	10	6	1	3	24	27	22	960
	180	120	10	6	1	3	29	33	27	960
	200	140	10	6	1	3	34	38	31	960
	220	160	10	6	1	3	40	44	35	960
	240	180	10	6	1	3	45	49	40	960
	260	200	10	6	1	3	50	55	45	960
	280	220	10	6	1	3	55	60	48	960
300	240	10	6	1	3	60	65	53	960	
FB-104 6x10-2	140	80	10	6	2	3	19	43	32	960
	160	100	10	6	2	3	24	54	44	960
	180	120	10	6	2	3	29	65	54	960
	200	140	10	6	2	3	34	76	62	960
	220	160	10	6	2	3	40	87	70	960
	240	180	10	6	2	3	45	98	80	960
	260	200	10	6	2	3	50	109	90	960
	280	220	10	6	2	3	55	120	96	960
300	240	10	6	2	3	60	130	106	960	
FB-104 6x10-3	140	80	10	6	3	3	19	65	48	960
	160	100	10	6	3	3	24	81	66	960
	180	120	10	6	3	3	29	98	81	960
	200	140	10	6	3	3	34	114	93	960
	220	160	10	6	3	3	40	131	105	960
	240	180	10	6	3	3	45	147	120	960
	260	200	10	6	3	3	50	164	135	960
	280	220	10	6	3	3	55	180	144	960
300	240	10	6	3	3	60	195	159	960	
FB-104 6x10-4	140	80	10	6	4	3	19	86	64	960
	160	100	10	6	4	3	24	108	88	960
	180	120	10	6	4	3	29	130	108	960
	200	140	10	6	4	3	34	152	124	960
	220	160	10	6	4	3	40	174	140	960
	240	180	10	6	4	3	45	196	160	960
	260	200	10	6	4	3	50	218	180	960
	280	220	10	6	4	3	55	240	192	960
300	240	10	6	4	3	60	260	212	960	

Connector FB-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res(-)} [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates	Compress. bearing		80 mm	120 mm	
								V _{res(±)} [kN]	V _{res(±)} [kN]	S
FB-104 6x10-5	140	80	10	6	5	3	19	97	72	960
	160	100	10	6	5	3	24	122	99	960
	180	120	10	6	5	3	29	146	122	960
	200	140	10	6	5	3	34	171	140	960
	220	160	10	6	5	3	40	196	158	960
	240	180	10	6	5	3	45	221	180	960
	260	200	10	6	5	3	50	245	203	960
	280	220	10	6	5	3	55	270	216	960
	300	240	10	6	5	3	60	293	239	960
FB-105 4x14-1	140	80	14	4	1	4	24	22	16	1280
	160	100	14	4	1	4	31	27	22	1280
	180	120	14	4	1	4	38	33	27	1280
	200	140	14	4	1	4	44	38	31	1280
	220	160	14	4	1	4	51	44	35	1280
	240	180	14	4	1	4	58	49	40	1280
	260	200	14	4	1	4	65	55	45	1280
	280	220	14	4	1	4	72	60	48	1280
	300	240	14	4	1	4	78	65	53	1280
FB-105 4x14-2	140	80	14	4	2	4	24	43	32	1280
	160	100	14	4	2	4	31	54	44	1280
	180	120	14	4	2	4	38	65	54	1280
	200	140	14	4	2	4	44	76	62	1280
	220	160	14	4	2	4	51	87	70	1280
	240	180	14	4	2	4	58	98	80	1280
	260	200	14	4	2	4	65	109	90	1280
	280	220	14	4	2	4	72	120	96	1280
	300	240	14	4	2	4	78	130	106	1280
FB-105 4x14-3	140	80	14	4	3	4	24	65	48	1280
	160	100	14	4	3	4	31	81	66	1280
	180	120	14	4	3	4	38	98	81	1280
	200	140	14	4	3	4	44	114	93	1280
	220	160	14	4	3	4	51	131	105	1280
	240	180	14	4	3	4	58	147	120	1280
	260	200	14	4	3	4	65	164	135	1280
	280	220	14	4	3	4	72	180	144	1280
	300	240	14	4	3	4	78	195	159	1280
FB-106 6x14-1	140	80	14	6	1	6	36	22	16	1280
	160	100	14	6	1	6	46	27	22	1280
	180	120	14	6	1	6	56	33	27	1280
	200	140	14	6	1	6	57	38	31	1280
	220	160	14	6	1	6	77	44	35	1280
	240	180	14	6	1	6	87	49	40	1280
	260	200	14	6	1	6	97	55	45	1280
	280	220	14	6	1	6	107	60	48	1280
	300	240	14	6	1	6	118	65	53	1280

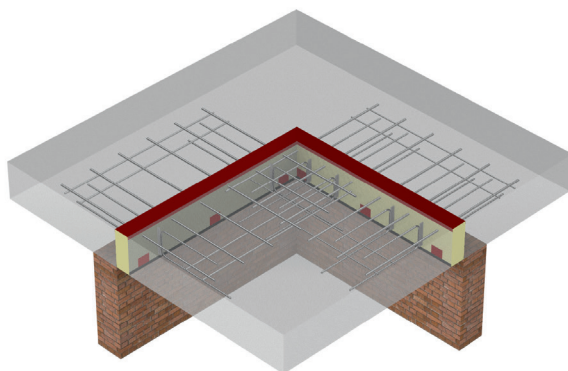
Connector FB-100 / concrete grade \geq C20/25											
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation	Insulation	Dim. [mm]	
				Bars	Steel plates	Compress. bearing		80 mm	120 mm		
							V _{res} (±) [kN]	V _{res} (±) [kN]	S		
FB-106 6x14-2	140	80	14	6	2	6	36	43	32	1280	
	160	100	14	6	2	6	46	54	44	1280	
	180	120	14	6	2	6	56	65	54	1280	
	200	140	14	6	2	6	67	76	62	1280	
	220	160	14	6	2	6	77	87	70	1280	
	240	180	14	6	2	6	87	98	80	1280	
	260	200	14	6	2	6	97	109	90	1280	
	280	220	14	6	2	6	107	120	96	1280	
	300	240	14	6	2	6	118	130	106	1280	
FB-106 6x14-3	140	80	14	6	3	6	36	65	48	1280	
	160	100	14	6	3	6	46	81	66	1280	
	180	120	14	6	3	6	56	98	81	1280	
	200	140	14	6	3	6	67	114	93	1280	
	220	160	14	6	3	6	77	131	105	1280	
	240	180	14	6	3	6	87	147	120	1280	
	260	200	14	6	3	6	97	164	135	1280	
	280	220	14	6	3	6	107	180	144	1280	
	300	240	14	6	3	6	118	195	159	1280	
FB-106 6x14-4	140	80	14	6	4	6	36	86	64	1280	
	160	100	14	6	4	6	46	108	88	1280	
	180	120	14	6	4	6	56	130	108	1280	
	200	140	14	6	4	6	67	152	124	1280	
	220	160	14	6	4	6	77	174	140	1280	
	240	180	14	6	4	6	87	196	160	1280	
	260	200	14	6	4	6	97	218	180	1280	
	280	220	14	6	4	6	107	240	192	1280	
	300	240	14	6	4	6	118	260	212	1280	
FB-106 6x14-5	140	80	14	6	5	6	36	97	72	1280	
	160	100	14	6	5	6	46	122	99	1280	
	180	120	14	6	5	6	56	146	122	1280	
	200	140	14	6	5	6	67	171	140	1280	
	220	160	14	6	5	6	77	196	158	1280	
	240	180	14	6	5	6	87	221	180	1280	
	260	200	14	6	5	6	97	245	203	1280	
	280	220	14	6	5	6	107	270	216	1280	
	300	240	14	6	5	6	118	293	239	1280	
FB-107 8x14-1	140	80	14	8	1	8	48	22	16	1280	
	160	100	14	8	1	8	62	27	22	1280	
	180	120	14	8	1	8	75	33	27	1280	
	200	140	14	8	1	8	89	38	31	1280	
	220	160	14	8	1	8	102	44	35	1280	
	240	180	14	8	1	8	116	49	40	1280	
	260	200	14	8	1	8	130	55	45	1280	
	280	220	14	8	1	8	143	60	48	1280	
	300	240	14	8	1	8	157	65	53	1280	

Connector FB-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates	Compress. bearing		80 mm	120 mm	
										S
FB-107 8x14-2	140	80	14	8	2	8	48	43	32	1280
	160	100	14	8	2	8	62	54	44	1280
	180	120	14	8	2	8	75	65	54	1280
	200	140	14	8	2	8	89	76	62	1280
	220	160	14	8	2	8	102	87	70	1280
	240	180	14	8	2	8	116	98	80	1280
	260	200	14	8	2	8	130	109	90	1280
	280	220	14	8	2	8	143	120	96	1280
	300	240	14	8	2	8	157	130	106	1280
FB-107 8x14-3	140	80	14	8	3	8	48	65	48	1280
	160	100	14	8	3	8	62	81	66	1280
	180	120	14	8	3	8	75	98	81	1280
	200	140	14	8	3	8	89	114	93	1280
	220	160	14	8	3	8	102	131	105	1280
	240	180	14	8	3	8	116	147	120	1280
	260	200	14	8	3	8	130	164	135	1280
	280	220	14	8	3	8	143	180	144	1280
	300	240	14	8	3	8	157	195	159	1280
FB-107 8x14-4	140	80	14	8	4	8	48	86	64	1280
	160	100	14	8	4	8	62	108	88	1280
	180	120	14	8	4	8	75	130	108	1280
	200	140	14	8	4	8	89	152	124	1280
	220	160	14	8	4	8	102	174	140	1280
	240	180	14	8	4	8	116	196	160	1280
	260	200	14	8	4	8	130	218	180	1280
	280	220	14	8	4	8	143	240	192	1280
	300	240	14	8	4	8	157	260	212	1280
FB-107 8x14-5	140	80	14	8	5	8	48	97	72	1280
	160	100	14	8	5	8	62	122	99	1280
	180	120	14	8	5	8	75	146	122	1280
	200	140	14	8	5	8	89	171	140	1280
	220	160	14	8	5	8	102	196	158	1280
	240	180	14	8	5	8	116	221	180	1280
	260	200	14	8	5	8	130	245	203	1280
	280	220	14	8	5	8	143	270	216	1280
	300	240	14	8	5	8	157	293	239	1280
FB-107 8x14-6	140	80	14	8	6	8	48	110	80	1280
	160	100	14	8	6	8	62	138	110	1280
	180	120	14	8	6	8	75	166	135	1280
	200	140	14	8	6	8	89	194	155	1280
	220	160	14	8	6	8	102	222	175	1280
	240	180	14	8	6	8	116	250	200	1280
	260	200	14	8	6	8	130	278	225	1280
	280	220	14	8	6	8	143	306	240	1280
	300	240	14	8	6	8	157	334	255	1280

Connector FB-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates	Compress. bearing		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S	
FB-107 8x14-7	140	80	14	8	7	8	48	123	88	1280
	160	100	14	8	7	8	62	154	121	1280
	180	120	14	8	7	8	75	186	148	1280
	200	140	14	8	7	8	89	217	170	1280
	220	160	14	8	7	8	102	248	192	1280
	240	180	14	8	7	8	116	279	220	1280
	260	200	14	8	7	8	130	311	247	1280
	280	220	14	8	7	8	143	342	264	1280
	300	240	14	8	7	8	157	375	271	1280
FB-108 10x14-1	140	80	14	10	1	10	60	22	16	1280
	160	100	14	10	1	10	77	27	22	1280
	180	120	14	10	1	10	94	33	27	1280
	200	140	14	10	1	10	111	38	31	1280
	220	160	14	10	1	10	128	44	35	1280
	240	180	14	10	1	10	145	49	40	1280
	260	200	14	10	1	10	162	55	45	1280
	280	220	14	10	1	10	179	60	48	1280
	300	240	14	10	1	10	196	65	53	1280
FB-108 10x14-2	140	80	14	10	2	10	60	43	32	1280
	160	100	14	10	2	10	77	54	44	1280
	180	120	14	10	2	10	94	65	54	1280
	200	140	14	10	2	10	111	76	62	1280
	220	160	14	10	2	10	128	87	70	1280
	240	180	14	10	2	10	145	98	80	1280
	260	200	14	10	2	10	162	109	90	1280
	280	220	14	10	2	10	179	120	96	1280
	300	240	14	10	2	10	196	130	106	1280
FB-108 10x14-3	140	80	14	10	3	10	60	65	48	1280
	160	100	14	10	3	10	77	81	66	1280
	180	120	14	10	3	10	94	98	81	1280
	200	140	14	10	3	10	111	114	93	1280
	220	160	14	10	3	10	128	131	105	1280
	240	180	14	10	3	10	145	147	120	1280
	260	200	14	10	3	10	162	164	135	1280
	280	220	14	10	3	10	179	180	144	1280
	300	240	14	10	3	10	196	195	159	1280
FB-108 10x14-4	140	80	14	10	4	10	60	86	64	1280
	160	100	14	10	4	10	77	108	88	1280
	180	120	14	10	4	10	94	130	108	1280
	200	140	14	10	4	10	111	152	124	1280
	220	160	14	10	4	10	128	174	140	1280
	240	180	14	10	4	10	145	196	160	1280
	260	200	14	10	4	10	162	218	180	1280
	280	220	14	10	4	10	179	240	192	1280
	300	240	14	10	4	10	196	260	212	1280

Connector FB-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates	Compress. bearing		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S	
FB-108 10x14-5	140	80	14	10	5	10	60	97	72	1280
	160	100	14	10	5	10	77	122	99	1280
	180	120	14	10	5	10	94	146	122	1280
	200	140	14	10	5	10	111	171	140	1280
	220	160	14	10	5	10	128	196	158	1280
	240	180	14	10	5	10	145	221	180	1280
	260	200	14	10	5	10	162	245	203	1280
	280	220	14	10	5	10	179	270	216	1280
	300	240	14	10	5	10	196	293	239	1280
FB-108 10x14-6	140	80	14	10	6	10	60	110	80	1280
	160	100	14	10	6	10	77	138	110	1280
	180	120	14	10	6	10	94	166	135	1280
	200	140	14	10	6	10	111	194	155	1280
	220	160	14	10	6	10	128	222	175	1280
	240	180	14	10	6	10	145	250	200	1280
	260	200	14	10	6	10	162	278	225	1280
	280	220	14	10	6	10	179	306	240	1280
	300	240	14	10	6	10	196	334	255	1280
FB-108 10x14-7	140	80	14	10	7	10	60	123	88	1280
	160	100	14	10	7	10	77	154	121	1280
	180	120	14	10	7	10	94	186	148	1280
	200	140	14	10	7	10	111	217	170	1280
	220	160	14	10	7	10	128	248	192	1280
	240	180	14	10	7	10	145	279	220	1280
	260	200	14	10	7	10	162	311	247	1280
	280	220	14	10	7	10	179	342	264	1280
300	240	14	10	7	10	196	375	271	1280	

Connector FBE-100 for cantilevered balconies – for coigns

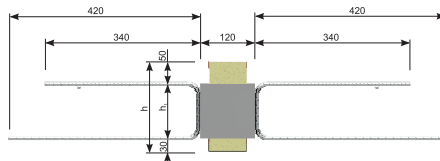
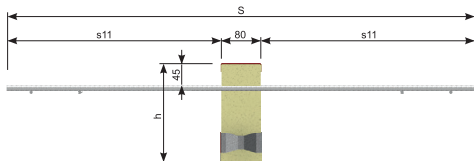


- Standard elements for floor slabs with thickness between 140 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of stainless steel
- Steel plates made of stainless steel
- Steel compression bearing made of stainless steel (for ceilings 14, 16 cm) or concrete bearing (ceilings 18 cm and higher)
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FBE - 109 6 × 10 - 4 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of steel plates



Connector FBE-100 / concrete grade \geq C20/25

Symbol	h [mm]	h ₁ [mm]	Bar diameter Ø [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Steel plates	Compress. bearing		V _{res} (±) [kN]	V _{res} (±) [kN]	
FBE-109 4x10-1	160	80	10	4	1	2	13	22	16	960
	180	100	10	4	1	2	17	27	22	960
	200	120	10	4	1	2	19	33	27	960
	220	140	10	4	1	2	23	38	31	960
	240	160	10	4	1	2	26	44	35	960
	260	180	10	4	1	2	30	49	40	960
	280	200	10	4	1	2	34	55	45	960
300	220	10	4	1	2	37	60	48	960	

Connector FBE-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates	Compress. bearing		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S	
FBE-109 4x10-2	160	80	10	4	2	2	13	43	32	960
	180	100	10	4	2	2	17	54	44	960
	200	120	10	4	2	2	19	65	54	960
	220	140	10	4	2	2	23	76	62	960
	240	160	10	4	2	2	26	87	70	960
	260	180	10	4	2	2	30	98	80	960
	280	200	10	4	2	2	34	109	90	960
	300	220	10	4	2	2	37	120	96	960
FBE-109 4x10-3	160	80	10	4	3	2	13	65	48	960
	180	100	10	4	3	2	17	81	66	960
	200	120	10	4	3	2	19	98	81	960
	220	140	10	4	3	2	23	114	93	960
	240	160	10	4	3	2	26	131	105	960
	260	180	10	4	3	2	30	147	120	960
	280	200	10	4	3	2	34	164	135	960
	300	220	10	4	3	2	37	180	144	960
FBE-110 6x10-1	160	80	10	6	1	3	20	22	16	960
	180	100	10	6	1	3	25	27	22	960
	200	120	10	6	1	3	31	33	27	960
	220	140	10	6	1	3	36	38	31	960
	240	160	10	6	1	3	41	44	35	960
	260	180	10	6	1	3	46	49	40	960
	280	200	10	6	1	3	51	55	45	960
	300	220	10	6	1	3	57	60	48	960
FBE-110 6x10-2	160	80	10	6	2	3	20	43	32	960
	180	100	10	6	2	3	25	54	44	960
	200	120	10	6	2	3	31	65	54	960
	220	140	10	6	2	3	36	76	62	960
	240	160	10	6	2	3	41	87	70	960
	260	180	10	6	2	3	46	98	80	960
	280	200	10	6	2	3	51	109	90	960
	300	220	10	6	2	3	57	120	96	960
FBE-110 6x10-3	160	80	10	6	3	3	20	65	48	960
	180	100	10	6	3	3	25	81	66	960
	200	120	10	6	3	3	31	98	81	960
	220	140	10	6	3	3	36	114	93	960
	240	160	10	6	3	3	41	131	105	960
	260	180	10	6	3	3	46	147	120	960
	280	200	10	6	3	3	51	164	135	960
	300	220	10	6	3	3	57	180	144	960
FBE-110 6x10-4	160	80	10	6	4	3	20	86	64	960
	180	100	10	6	4	3	25	108	88	960
	200	120	10	6	4	3	31	130	108	960
	220	140	10	6	4	3	36	152	124	960
	240	160	10	6	4	3	41	174	140	960
	260	180	10	6	4	3	46	196	160	960
	280	200	10	6	4	3	51	218	180	960
	300	220	10	6	4	3	57	240	192	960

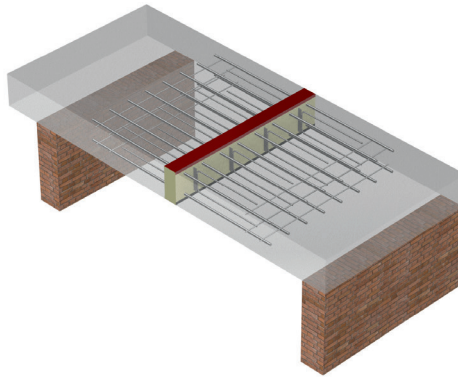
Connector FBE-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{red} (-) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Steel plates	Compress. bearing		V _{red} (±) [kN]	V _{red} (±) [kN]	
									S	
FBE-110 6x10-5	160	80	10	6	5	3	20	97	72	960
	180	100	10	6	5	3	25	122	99	960
	200	120	10	6	5	3	31	146	122	960
	220	140	10	6	5	3	36	171	140	960
	240	160	10	6	5	3	41	196	158	960
	260	180	10	6	5	3	46	221	180	960
	280	200	10	6	5	3	51	245	203	960
	300	220	10	6	5	3	57	270	216	960
FBE-111 4x14-1	160	80	14	4	1	4	25	22	16	1280
	180	100	14	4	1	4	32	27	22	1280
	200	120	14	4	1	4	38	33	27	1280
	220	140	14	4	1	4	45	38	31	1280
	240	160	14	4	1	4	52	44	35	1280
	260	180	14	4	1	4	59	49	40	1280
	280	200	14	4	1	4	66	55	45	1280
	300	220	14	4	1	4	73	60	48	1280
FBE-111 4x14-2	160	80	14	4	2	4	25	43	32	1280
	180	100	14	4	2	4	32	54	44	1280
	200	120	14	4	2	4	38	65	54	1280
	220	140	14	4	2	4	45	76	62	1280
	240	160	14	4	2	4	52	87	70	1280
	260	180	14	4	2	4	59	98	80	1280
	280	200	14	4	2	4	66	109	90	1280
	300	220	14	4	2	4	73	120	96	1280
FBE-111 4x14-3	160	80	14	4	3	4	25	65	48	1280
	180	100	14	4	3	4	32	81	66	1280
	200	120	14	4	3	4	38	98	81	1280
	220	140	14	4	3	4	45	114	93	1280
	240	160	14	4	3	4	52	131	105	1280
	260	180	14	4	3	4	59	147	120	1280
	280	200	14	4	3	4	66	164	135	1280
	300	220	14	4	3	4	73	180	144	1280
FBE-112 6x14-1	160	80	14	6	1	6	38	22	16	1280
	180	100	14	6	1	6	49	27	22	1280
	200	120	14	6	1	6	59	33	27	1280
	220	140	14	6	1	6	69	38	31	1280
	240	160	14	6	1	6	79	44	35	1280
	260	180	14	6	1	6	89	49	40	1280
	280	200	14	6	1	6	100	55	45	1280
	300	220	14	6	1	6	110	60	48	1280
FBE-112 6x14-2	160	80	14	6	2	6	38	43	32	1280
	180	100	14	6	2	6	49	54	44	1280
	200	120	14	6	2	6	59	65	54	1280
	220	140	14	6	2	6	69	76	62	1280
	240	160	14	6	2	6	79	87	70	1280
	260	180	14	6	2	6	89	98	80	1280
	280	200	14	6	2	6	100	109	90	1280
	300	220	14	6	2	6	110	120	96	1280

Connector FBE-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FBE-112 6x14-3	160	80	14	6	3	6	38	65	48	1280
	180	100	14	6	3	6	49	81	66	1280
	200	120	14	6	3	6	59	98	81	1280
	220	140	14	6	3	6	69	114	93	1280
	240	160	14	6	3	6	79	131	105	1280
	260	180	14	6	3	6	89	147	120	1280
	280	200	14	6	3	6	100	164	135	1280
	300	220	14	6	3	6	110	180	144	1280
FBE-112 6x14-4	160	80	14	6	4	6	38	86	64	1280
	180	100	14	6	4	6	49	108	88	1280
	200	120	14	6	4	6	59	130	108	1280
	220	140	14	6	4	6	69	152	124	1280
	240	160	14	6	4	6	79	174	140	1280
	260	180	14	6	4	6	89	196	160	1280
	280	200	14	6	4	6	100	218	180	1280
	300	220	14	6	4	6	110	240	192	1280
FBE-112 6x14-5	160	80	14	6	5	6	38	97	72	1280
	180	100	14	6	5	6	49	122	99	1280
	200	120	14	6	5	6	59	146	122	1280
	220	140	14	6	5	6	69	171	140	1280
	240	160	14	6	5	6	79	196	158	1280
	260	180	14	6	5	6	89	221	180	1280
	280	200	14	6	5	6	100	245	203	1280
	300	220	14	6	5	6	110	270	216	1280
FBE-113 8x14-1	160	80	14	8	1	8	51	22	16	1280
	180	100	14	8	1	8	65	27	22	1280
	200	120	14	8	1	8	79	33	27	1280
	220	140	14	8	1	8	92	38	31	1280
	240	160	14	8	1	8	106	44	35	1280
	260	180	14	8	1	8	119	49	40	1280
	280	200	14	8	1	8	133	55	45	1280
	300	220	14	8	1	8	146	60	48	1280
FBE-113 8x14-2	160	80	14	8	2	8	51	43	32	1280
	180	100	14	8	2	8	65	54	44	1280
	200	120	14	8	2	8	79	65	54	1280
	220	140	14	8	2	8	92	76	62	1280
	240	160	14	8	2	8	106	87	70	1280
	260	180	14	8	2	8	119	98	80	1280
	280	200	14	8	2	8	133	109	90	1280
	300	220	14	8	2	8	146	120	96	1280
FBE-113 8x14-3	160	80	14	8	3	8	51	65	48	1280
	180	100	14	8	3	8	65	81	66	1280
	200	120	14	8	3	8	79	98	81	1280
	220	140	14	8	3	8	92	114	93	1280
	240	160	14	8	3	8	106	131	105	1280
	260	180	14	8	3	8	119	147	120	1280
	280	200	14	8	3	8	133	164	135	1280
	300	220	14	8	3	8	146	180	144	1280

Connector FBE-100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{red} (-) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Steel plates	Compress. bearing		V _{red} (±) [kN]	V _{red} (±) [kN]	S
FBE-113 8x14-4	160	80	14	8	4	8	51	86	64	1280
	180	100	14	8	4	8	65	108	88	1280
	200	120	14	8	4	8	79	130	108	1280
	220	140	14	8	4	8	92	152	124	1280
	240	160	14	8	4	8	106	174	140	1280
	260	180	14	8	4	8	119	196	160	1280
	280	200	14	8	4	8	133	218	180	1280
300	220	14	8	4	8	146	240	192	1280	
FBE-113 8x14-5	160	80	14	8	5	8	51	97	72	1280
	180	100	14	8	5	8	65	122	99	1280
	200	120	14	8	5	8	79	146	122	1280
	220	140	14	8	5	8	92	171	140	1280
	240	160	14	8	5	8	106	196	158	1280
	260	180	14	8	5	8	119	221	180	1280
	280	200	14	8	5	8	133	245	203	1280
300	220	14	8	5	8	146	270	216	1280	
FBE-113 8x14-6	160	80	14	8	6	8	51	110	80	1280
	180	100	14	8	6	8	65	138	110	1280
	200	120	14	8	6	8	79	166	135	1280
	220	140	14	8	6	8	92	194	155	1280
	240	160	14	8	6	8	106	222	175	1280
	260	180	14	8	6	8	119	250	200	1280
	280	200	14	8	6	8	133	278	225	1280
300	220	14	8	6	8	146	306	240	1280	
FBE-113 8x14-7	160	80	14	8	7	8	51	123	88	1280
	180	100	14	8	7	8	65	154	121	1280
	200	120	14	8	7	8	79	186	148	1280
	220	140	14	8	7	8	92	217	170	1280
	240	160	14	8	7	8	106	248	192	1280
	260	180	14	8	7	8	119	279	220	1280
	280	200	14	8	7	8	133	311	247	1280
300	220	14	8	7	8	146	342	264	1280	
FBE-114 10x14-1	160	80	14	10	1	10	64	22	16	1280
	180	100	14	10	1	10	81	27	22	1280
	200	120	14	10	1	10	98	33	27	1280
	220	140	14	10	1	10	115	38	31	1280
	240	160	14	10	1	10	132	44	35	1280
	260	180	14	10	1	10	149	49	40	1280
	280	200	14	10	1	10	166	55	45	1280
300	220	14	10	1	10	183	60	48	1280	
FBE-114 10x14-2	160	80	14	10	2	10	64	43	32	1280
	180	100	14	10	2	10	81	54	44	1280
	200	120	14	10	2	10	98	65	54	1280
	220	140	14	10	2	10	115	76	62	1280
	240	160	14	10	2	10	132	87	70	1280
	260	180	14	10	2	10	149	98	80	1280
	280	200	14	10	2	10	166	109	90	1280
300	220	14	10	2	10	183	120	96	1280	

Connector FBE-100 / concrete grade \geq C20/25											
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation	Insulation	Dim. [mm]	
				Bars	Steel plates	Compress. bearing		80 mm	120 mm		
							V _{res} (±) [kN]	V _{res} (±) [kN]	S		
FBE-114 10x14-3	160	80	14	10	3	10	64	65	48	1280	
	180	100	14	10	3	10	81	81	66	1280	
	200	120	14	10	3	10	98	98	81	1280	
	220	140	14	10	3	10	115	114	93	1280	
	240	160	14	10	3	10	132	131	105	1280	
	260	180	14	10	3	10	149	147	120	1280	
	280	200	14	10	3	10	166	164	135	1280	
	300	220	14	10	3	10	183	180	144	1280	
FBE-114 10x14-4	160	80	14	10	4	10	64	86	64	1280	
	180	100	14	10	4	10	81	108	88	1280	
	200	120	14	10	4	10	98	130	108	1280	
	220	140	14	10	4	10	115	152	124	1280	
	240	160	14	10	4	10	132	174	140	1280	
	260	180	14	10	4	10	149	196	160	1280	
	280	200	14	10	4	10	166	218	180	1280	
	300	220	14	10	4	10	183	240	192	1280	
FBE-114 10x14-5	160	80	14	10	5	10	64	97	72	1280	
	180	100	14	10	5	10	81	122	99	1280	
	200	120	14	10	5	10	98	146	122	1280	
	220	140	14	10	5	10	115	171	140	1280	
	240	160	14	10	5	10	132	196	158	1280	
	260	180	14	10	5	10	149	221	180	1280	
	280	200	14	10	5	10	166	245	203	1280	
	300	220	14	10	5	10	183	270	216	1280	
FBE-114 10x14-6	160	80	14	10	6	10	64	110	80	1280	
	180	100	14	10	6	10	81	138	110	1280	
	200	120	14	10	6	10	98	166	135	1280	
	220	140	14	10	6	10	115	194	155	1280	
	240	160	14	10	6	10	132	222	175	1280	
	260	180	14	10	6	10	149	250	200	1280	
	280	200	14	10	6	10	166	278	225	1280	
	300	220	14	10	6	10	183	306	240	1280	
FBE-114 10x14-7	160	80	14	10	7	10	64	123	88	1280	
	180	100	14	10	7	10	81	154	121	1280	
	200	120	14	10	7	10	98	186	148	1280	
	220	140	14	10	7	10	115	217	170	1280	
	240	160	14	10	7	10	132	248	192	1280	
	260	180	14	10	7	10	149	279	220	1280	
	280	200	14	10	7	10	166	311	247	1280	
	300	220	14	10	7	10	183	342	264	1280	

Connector FB-200 for continuous connection of balcony slab with floor

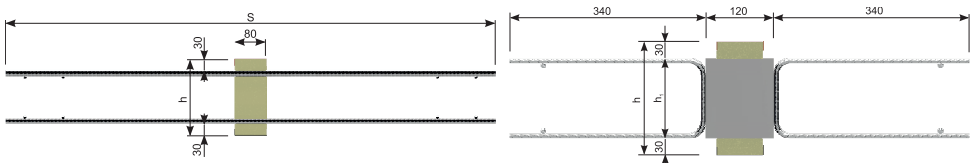


- Standard elements for floor slabs with thickness between 140 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of stainless steel
- Steel plates made of stainless steel
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 204 8 × 14 - 4 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of steel plates



Connector FB-200 / concrete grade \geq C20/25

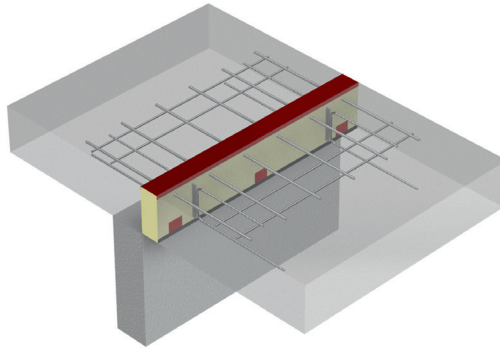
Symbol	h [mm]	h ₁ [mm]	Bar diameter Ø [mm]	Quantity			M _{res} (±) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm] S
				Bars	Steel plates					
FB-201 6x10-1	140	80	10	6	1	15	21	16	960	
	160	100	10	6	1	20	27	22	960	
	180	120	10	6	1	24	32	27	960	
	200	140	10	6	1	29	38	31	960	
	220	160	10	6	1	33	43	35	960	
	240	180	10	6	1	37	49	40	960	
	260	200	10	6	1	42	54	45	960	
	280	220	10	6	1	46	60	48	960	
	300	240	10	6	1	51	65	53	960	

Connector FB-200 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter ∅ [mm]	Quantity		M _{res} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S
FB-201 6x10-2	140	80	10	6	2	15	43	32	960
	160	100	10	6	2	20	54	44	960
	180	120	10	6	2	24	65	54	960
	200	140	10	6	2	29	76	62	960
	220	160	10	6	2	33	87	70	960
	240	180	10	6	2	37	98	80	960
	260	200	10	6	2	42	109	90	960
	280	220	10	6	2	46	120	96	960
	300	240	10	6	2	51	130	106	960
FB-201 6x10-3	140	80	10	6	3	15	65	48	960
	160	100	10	6	3	20	81	66	960
	180	120	10	6	3	24	98	81	960
	200	140	10	6	3	29	114	93	960
	220	160	10	6	3	33	131	105	960
	240	180	10	6	3	37	147	120	960
	260	200	10	6	3	42	164	135	960
	280	220	10	6	3	46	180	144	960
	300	240	10	6	3	51	195	159	960
FB-202 4x14-1	140	80	14	4	1	21	21	16	1280
	160	100	14	4	1	27	27	22	1280
	180	120	14	4	1	34	32	27	1280
	200	140	14	4	1	40	38	31	1280
	220	160	14	4	1	47	43	35	1280
	240	180	14	4	1	53	49	40	1280
	260	200	14	4	1	59	54	45	1280
	280	220	14	4	1	66	60	48	1280
	300	240	14	4	1	72	65	53	1280
FB-202 4x14-2	140	80	14	4	2	21	43	32	1280
	160	100	14	4	2	27	54	44	1280
	180	120	14	4	2	34	65	54	1280
	200	140	14	4	2	40	76	62	1280
	220	160	14	4	2	47	87	70	1280
	240	180	14	4	2	53	98	80	1280
	260	200	14	4	2	59	109	90	1280
	280	220	14	4	2	66	120	96	1280
	300	240	14	4	2	72	130	106	1280
FB-202 4x14-3	140	80	14	4	3	21	65	48	1280
	160	100	14	4	3	27	81	66	1280
	180	120	14	4	3	34	98	81	1280
	200	140	14	4	3	40	114	93	1280
	220	160	14	4	3	47	131	105	1280
	240	180	14	4	3	53	147	120	1280
	260	200	14	4	3	59	164	135	1280
	280	220	14	4	3	66	180	144	1280
	300	240	14	4	3	72	195	159	1280

Connector FB-200 / concrete grade \geq C20/25									
Symbol	h [mm]	h _i [mm]	Bar diameter \varnothing [mm]	Quantity		M _{req} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates		80 mm	120 mm	
							V _{req} (±) [kN]	V _{req} (±) [kN]	S
FB-203 6x14-2	140	80	14	6	2	32	43	32	1280
	160	100	14	6	2	41	54	44	1280
	180	120	14	6	2	51	65	54	1280
	200	140	14	6	2	60	76	62	1280
	220	160	14	6	2	70	87	70	1280
	240	180	14	6	2	80	98	80	1280
	260	200	14	6	2	89	109	90	1280
	280	220	14	6	2	99	120	96	1280
	300	240	14	6	2	108	130	106	1280
FB-203 6x14-3	140	80	14	6	3	32	65	48	1280
	160	100	14	6	3	41	81	66	1280
	180	120	14	6	3	51	98	81	1280
	200	140	14	6	3	60	114	93	1280
	220	160	14	6	3	70	131	105	1280
	240	180	14	6	3	80	147	120	1280
	260	200	14	6	3	89	164	135	1280
	280	220	14	6	3	99	180	144	1280
	300	240	14	6	3	108	195	159	1280
FB-203 6x14-4	140	80	14	6	4	32	86	64	1280
	160	100	14	6	4	41	108	88	1280
	180	120	14	6	4	51	130	108	1280
	200	140	14	6	4	60	152	124	1280
	220	160	14	6	4	70	174	140	1280
	240	180	14	6	4	80	196	160	1280
	260	200	14	6	4	89	218	180	1280
	280	220	14	6	4	99	240	192	1280
	300	240	14	6	4	108	260	212	1280
FB-204 8x14-2	140	80	14	8	2	42	43	32	1280
	160	100	14	8	2	55	54	44	1280
	180	120	14	8	2	68	65	54	1280
	200	140	14	8	2	81	76	62	1280
	220	160	14	8	2	93	87	70	1280
	240	180	14	8	2	106	98	80	1280
	260	200	14	8	2	119	109	90	1280
	280	220	14	8	2	132	120	96	1280
	300	240	14	8	2	144	130	106	1280
FB-204 8x14-3	140	80	14	8	3	42	65	48	1280
	160	100	14	8	3	55	81	66	1280
	180	120	14	8	3	68	98	81	1280
	200	140	14	8	3	81	114	93	1280
	220	160	14	8	3	93	131	105	1280
	240	180	14	8	3	106	147	120	1280
	260	200	14	8	3	119	164	135	1280
	280	220	14	8	3	132	180	144	1280
	300	240	14	8	3	144	195	159	1280

Connector FB-200 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity		M _{red} (±) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Steel plates		V _{red} (±) [kN]	V _{red} (±) [kN]	
FB-204 8x14-4	140	80	14	8	4	42	86	64	1280
	160	100	14	8	4	55	108	88	1280
	180	120	14	8	4	68	130	108	1280
	200	140	14	8	4	81	152	124	1280
	220	160	14	8	4	93	174	140	1280
	240	180	14	8	4	106	196	160	1280
	260	200	14	8	4	119	218	180	1280
	280	220	14	8	4	132	240	192	1280
	300	240	14	8	4	144	260	212	1280

Connector FB-300 for cantilevered balcony slabs

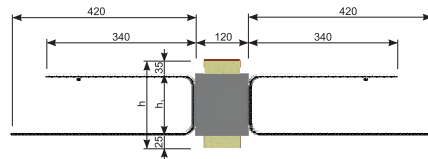
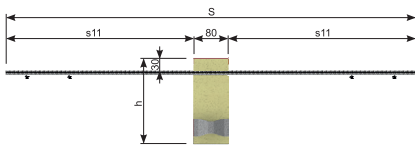


- Standard elements for floor slabs with thickness between 140 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of black steel, hot-dip galvanised carbon steel
- Steel plates made of stainless steel
- Steel compression bearing made of stainless steel (for ceilings 14, 16 cm) or concrete bearing (ceilings 18 cm and higher)
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 304 6 × 10 - 2 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of steel plates



Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Req} (-) [kNm]	Insulation 80 mm V _{Req} (\pm) [kN]	Insulation 120 mm V _{Req} (\pm) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FB-301 2x10-1	140	80	10	2	1	1	5	22	16	820
	160	100	10	2	1	1	6	27	22	820
	180	120	10	2	1	1	8	33	27	820
	200	140	10	2	1	1	9	38	31	820
	220	160	10	2	1	1	10	44	35	820
	240	180	10	2	1	1	12	49	40	820
	260	200	10	2	1	1	13	55	45	820
	280	220	10	2	1	1	15	60	48	820
	300	240	10	2	1	1	16	65	53	820
FB-302 2x14-1	140	80	14	2	1	2	9	22	16	1050
	160	100	14	2	1	2	12	27	22	1050
	180	120	14	2	1	2	15	33	27	1050
	200	140	14	2	1	2	17	38	31	1050
	220	160	14	2	1	2	20	44	35	1050
	240	180	14	2	1	2	23	49	40	1050
	260	200	14	2	1	2	26	55	45	1050
	280	220	14	2	1	2	28	60	48	1050
	300	240	14	2	1	2	31	65	53	1050
FB-302 2x14-2	140	80	14	2	2	2	9	43	32	1050
	160	100	14	2	2	2	12	54	44	1050
	180	120	14	2	2	2	15	65	54	1050
	200	140	14	2	2	2	17	76	62	1050
	220	160	14	2	2	2	20	87	70	1050
	240	180	14	2	2	2	23	98	80	1050
	260	200	14	2	2	2	26	109	90	1050
	280	220	14	2	2	2	28	120	96	1050
	300	240	14	2	2	2	31	130	106	1050
FB-303 4x10-1	140	80	10	4	1	2	10	22	16	820
	160	100	10	4	1	2	13	27	22	820
	180	120	10	4	1	2	15	33	27	820
	200	140	10	4	1	2	18	38	31	820
	220	160	10	4	1	2	21	44	35	820
	240	180	10	4	1	2	24	49	40	820
	260	200	10	4	1	2	26	55	45	820
	280	220	10	4	1	2	29	60	48	820
	300	240	10	4	1	2	32	65	53	820
FB-303 4x10-2	140	80	10	4	2	2	10	43	32	820
	160	100	10	4	2	2	13	54	44	820
	180	120	10	4	2	2	15	65	54	820
	200	140	10	4	2	2	18	76	62	820
	220	160	10	4	2	2	21	87	70	820
	240	180	10	4	2	2	24	98	80	820
	260	200	10	4	2	2	26	109	90	820
	280	220	10	4	2	2	29	120	96	820
	300	240	10	4	2	2	32	130	106	820

Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FB-303 4x10-3	140	80	10	4	3	2	10	65	48	820
	160	100	10	4	3	2	13	81	66	820
	180	120	10	4	3	2	15	98	81	820
	200	140	10	4	3	2	18	114	93	820
	220	160	10	4	3	2	21	131	105	820
	240	180	10	4	3	2	24	147	120	820
	260	200	10	4	3	2	26	164	135	820
	280	220	10	4	3	2	29	180	144	820
	300	240	10	4	3	2	32	195	159	820
FB-304 6x10-1	140	80	10	6	1	3	15	22	16	820
	160	100	10	6	1	3	19	27	22	820
	180	120	10	6	1	3	23	33	27	820
	200	140	10	6	1	3	27	38	31	820
	220	160	10	6	1	3	31	44	35	820
	240	180	10	6	1	3	35	49	40	820
	260	200	10	6	1	3	39	55	45	820
	280	220	10	6	1	3	44	60	48	820
	300	240	10	6	1	3	48	65	53	820
FB-304 6x10-2	140	80	10	6	2	3	15	43	32	820
	160	100	10	6	2	3	19	54	44	820
	180	120	10	6	2	3	23	65	54	820
	200	140	10	6	2	3	27	76	62	820
	220	160	10	6	2	3	31	87	70	820
	240	180	10	6	2	3	35	98	80	820
	260	200	10	6	2	3	39	109	90	820
	280	220	10	6	2	3	44	120	96	820
	300	240	10	6	2	3	48	130	106	820
FB-304 6x10-3	140	80	10	6	3	3	15	65	48	820
	160	100	10	6	3	3	19	81	66	820
	180	120	10	6	3	3	23	98	81	820
	200	140	10	6	3	3	27	114	93	820
	220	160	10	6	3	3	31	131	105	820
	240	180	10	6	3	3	35	147	120	820
	260	200	10	6	3	3	39	164	135	820
	280	220	10	6	3	3	44	180	144	820
	300	240	10	6	3	3	48	195	159	820
FB-304 6x10-4	140	80	10	6	4	3	15	86	64	820
	160	100	10	6	4	3	19	108	88	820
	180	120	10	6	4	3	23	130	108	820
	200	140	10	6	4	3	27	152	124	820
	220	160	10	6	4	3	31	174	140	820
	240	180	10	6	4	3	35	196	160	820
	260	200	10	6	4	3	39	218	180	820
	280	220	10	6	4	3	44	240	192	820
	300	240	10	6	4	3	48	260	212	820

Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Req} (-) [kNm]	Insulation 80 mm V _{Req} (±) [kN]	Insulation 120 mm V _{Req} (±) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FB-304 6x10-5	140	80	10	6	5	3	15	97	72	820
	160	100	10	6	5	3	19	122	99	820
	180	120	10	6	5	3	23	146	122	820
	200	140	10	6	5	3	27	171	140	820
	220	160	10	6	5	3	31	196	158	820
	240	180	10	6	5	3	35	221	180	820
	260	200	10	6	5	3	39	245	203	820
	280	220	10	6	5	3	44	270	216	820
	300	240	10	6	5	3	48	293	239	820
FB-305 4x14-1	140	80	14	4	1	4	19	22	16	1050
	160	100	14	4	1	4	24	27	22	1050
	180	120	14	4	1	4	30	33	27	1050
	200	140	14	4	1	4	35	38	31	1050
	220	160	14	4	1	4	40	44	35	1050
	240	180	14	4	1	4	46	49	40	1050
	260	200	14	4	1	4	51	55	45	1050
	280	220	14	4	1	4	56	60	48	1050
	300	240	14	4	1	4	62	65	53	1050
FB-305 4x14-2	140	80	14	4	2	4	19	43	32	1050
	160	100	14	4	2	4	24	54	44	1050
	180	120	14	4	2	4	30	65	54	1050
	200	140	14	4	2	4	35	76	62	1050
	220	160	14	4	2	4	40	87	70	1050
	240	180	14	4	2	4	46	98	80	1050
	260	200	14	4	2	4	51	109	90	1050
	280	220	14	4	2	4	56	120	96	1050
	300	240	14	4	2	4	62	130	106	1050
FB-305 4x14-3	140	80	14	4	3	4	19	65	48	1050
	160	100	14	4	3	4	24	81	66	1050
	180	120	14	4	3	4	30	98	81	1050
	200	140	14	4	3	4	35	114	93	1050
	220	160	14	4	3	4	40	131	105	1050
	240	180	14	4	3	4	46	147	120	1050
	260	200	14	4	3	4	51	164	135	1050
	280	220	14	4	3	4	56	180	144	1050
	300	240	14	4	3	4	62	195	159	1050
FB-306 5x14-2	140	80	14	5	2	5	24	43	32	1050
	160	100	14	5	2	5	30	54	44	1050
	180	120	14	5	2	5	37	65	54	1050
	200	140	14	5	2	5	44	76	62	1050
	220	160	14	5	2	5	50	87	70	1050
	240	180	14	5	2	5	57	98	80	1050
	260	200	14	5	2	5	64	109	90	1050
	280	220	14	5	2	5	70	120	96	1050
	300	240	14	5	2	5	77	130	106	1050

Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FB-306 5x14-3	140	80	14	5	3	5	24	65	48	1050
	160	100	14	5	3	5	30	81	66	1050
	180	120	14	5	3	5	37	98	81	1050
	200	140	14	5	3	5	44	114	93	1050
	220	160	14	5	3	5	50	131	105	1050
	240	180	14	5	3	5	57	147	120	1050
	260	200	14	5	3	5	64	164	135	1050
	280	220	14	5	3	5	70	180	144	1050
	300	240	14	5	3	5	77	195	159	1050
FB-306 5x14-4	140	80	14	5	4	5	24	86	64	1050
	160	100	14	5	4	5	30	108	88	1050
	180	120	14	5	4	5	37	130	108	1050
	200	140	14	5	4	5	44	152	124	1050
	220	160	14	5	4	5	50	174	140	1050
	240	180	14	5	4	5	57	196	160	1050
	260	200	14	5	4	5	64	218	180	1050
	280	220	14	5	4	5	70	240	192	1050
	300	240	14	5	4	5	77	260	212	1050
FB-307 6x14-1	140	80	14	6	1	6	28	22	16	1050
	160	100	14	6	1	6	36	27	22	1050
	180	120	14	6	1	6	44	33	27	1050
	200	140	14	6	1	6	52	38	31	1050
	220	160	14	6	1	6	60	44	35	1050
	240	180	14	6	1	6	69	49	40	1050
	260	200	14	6	1	6	77	55	45	1050
	280	220	14	6	1	6	85	60	48	1050
	300	240	14	6	1	6	93	65	53	1050
FB-307 6x14-2	140	80	14	6	2	6	28	43	32	1050
	160	100	14	6	2	6	36	54	44	1050
	180	120	14	6	2	6	44	65	54	1050
	200	140	14	6	2	6	52	76	62	1050
	220	160	14	6	2	6	60	87	70	1050
	240	180	14	6	2	6	69	98	80	1050
	260	200	14	6	2	6	77	109	90	1050
	280	220	14	6	2	6	85	120	96	1050
	300	240	14	6	2	6	93	130	106	1050
FB-307 6x14-3	140	80	14	6	3	6	28	65	48	1050
	160	100	14	6	3	6	36	81	66	1050
	180	120	14	6	3	6	44	98	81	1050
	200	140	14	6	3	6	52	114	93	1050
	220	160	14	6	3	6	60	131	105	1050
	240	180	14	6	3	6	69	147	120	1050
	260	200	14	6	3	6	77	164	135	1050
	280	220	14	6	3	6	85	180	144	1050
	300	240	14	6	3	6	93	195	159	1050

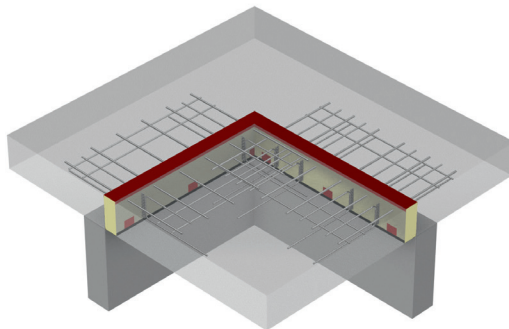
Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm V _{Res} (\pm) [kN]	Insulation 120 mm V _{Res} (\pm) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FB-307 6x14-4	140	80	14	6	4	6	28	86	64	1050
	160	100	14	6	4	6	36	108	88	1050
	180	120	14	6	4	6	44	130	108	1050
	200	140	14	6	4	6	52	152	124	1050
	220	160	14	6	4	6	60	174	140	1050
	240	180	14	6	4	6	69	196	160	1050
	260	200	14	6	4	6	77	218	180	1050
	280	220	14	6	4	6	85	240	192	1050
	300	240	14	6	4	6	93	260	212	1050
FB-307 6x14-5	140	80	14	6	5	6	28	97	72	1050
	160	100	14	6	5	6	36	122	99	1050
	180	120	14	6	5	6	44	146	122	1050
	200	140	14	6	5	6	52	171	140	1050
	220	160	14	6	5	6	60	196	158	1050
	240	180	14	6	5	6	69	221	180	1050
	260	200	14	6	5	6	77	245	203	1050
	280	220	14	6	5	6	85	270	216	1050
	300	240	14	6	5	6	93	293	239	1050
FB-308 8x14-1	140	80	14	8	1	8	38	22	16	1050
	160	100	14	8	1	8	48	27	22	1050
	180	120	14	8	1	8	59	33	27	1050
	200	140	14	8	1	8	70	38	31	1050
	220	160	14	8	1	8	81	44	35	1050
	240	180	14	8	1	8	91	49	40	1050
	260	200	14	8	1	8	102	55	45	1050
	280	220	14	8	1	8	113	60	48	1050
300	240	14	8	1	8	123	65	53	1050	
FB-308 8x14-2	140	80	14	8	2	8	38	43	32	1050
	160	100	14	8	2	8	48	54	44	1050
	180	120	14	8	2	8	59	65	54	1050
	200	140	14	8	2	8	70	76	62	1050
	220	160	14	8	2	8	81	87	70	1050
	240	180	14	8	2	8	91	98	80	1050
	260	200	14	8	2	8	102	109	90	1050
	280	220	14	8	2	8	113	120	96	1050
300	240	14	8	2	8	123	130	106	1050	
FB-308 8x14-3	140	80	14	8	3	8	38	65	48	1050
	160	100	14	8	3	8	48	81	66	1050
	180	120	14	8	3	8	59	98	81	1050
	200	140	14	8	3	8	70	114	93	1050
	220	160	14	8	3	8	81	131	105	1050
	240	180	14	8	3	8	91	147	120	1050
	260	200	14	8	3	8	102	164	135	1050
	280	220	14	8	3	8	113	180	144	1050
	300	240	14	8	3	8	123	195	159	1050

Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FB-308 8x14-4	140	80	14	8	4	8	38	86	64	1050
	160	100	14	8	4	8	48	108	88	1050
	180	120	14	8	4	8	59	130	108	1050
	200	140	14	8	4	8	70	152	124	1050
	220	160	14	8	4	8	81	174	140	1050
	240	180	14	8	4	8	91	196	160	1050
	260	200	14	8	4	8	102	218	180	1050
	280	220	14	8	4	8	113	240	192	1050
	300	240	14	8	4	8	123	260	212	1050
FB-308 8x14-5	140	80	14	8	5	8	38	97	72	1050
	160	100	14	8	5	8	48	122	99	1050
	180	120	14	8	5	8	59	146	122	1050
	200	140	14	8	5	8	70	171	140	1050
	220	160	14	8	5	8	81	196	158	1050
	240	180	14	8	5	8	91	221	180	1050
	260	200	14	8	5	8	102	245	203	1050
	280	220	14	8	5	8	113	270	216	1050
	300	240	14	8	5	8	123	293	239	1050
FB-308 8x14-6	140	80	14	8	6	8	38	110	80	1050
	160	100	14	8	6	8	48	138	110	1050
	180	120	14	8	6	8	59	166	135	1050
	200	140	14	8	6	8	70	194	155	1050
	220	160	14	8	6	8	81	222	175	1050
	240	180	14	8	6	8	91	250	200	1050
	260	200	14	8	6	8	102	278	225	1050
	280	220	14	8	6	8	113	306	240	1050
	300	240	14	8	6	8	123	334	255	1050
FB-308 8x14-7	140	80	14	8	7	8	38	123	88	1050
	160	100	14	8	7	8	48	154	121	1050
	180	120	14	8	7	8	59	186	148	1050
	200	140	14	8	7	8	70	217	170	1050
	220	160	14	8	7	8	81	248	192	1050
	240	180	14	8	7	8	91	279	220	1050
	260	200	14	8	7	8	102	311	247	1050
	280	220	14	8	7	8	113	342	264	1050
	300	240	14	8	7	8	123	375	271	1050
FB-309 10x14-1	140	80	14	10	1	10	47	22	16	1050
	160	100	14	10	1	10	61	27	22	1050
	180	120	14	10	1	10	74	33	27	1050
	200	140	14	10	1	10	87	38	31	1050
	220	160	14	10	1	10	101	44	35	1050
	240	180	14	10	1	10	114	49	40	1050
	260	200	14	10	1	10	128	55	45	1050
	280	220	14	10	1	10	141	60	48	1050
	300	240	14	10	1	10	154	65	53	1050

Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm V _{Res} (±) [kN]	Insulation 120 mm V _{Res} (±) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FB-309 10x14-2	140	80	14	10	2	10	47	43	32	1050
	160	100	14	10	2	10	61	54	44	1050
	180	120	14	10	2	10	74	65	54	1050
	200	140	14	10	2	10	87	76	62	1050
	220	160	14	10	2	10	101	87	70	1050
	240	180	14	10	2	10	114	98	80	1050
	260	200	14	10	2	10	128	109	90	1050
	280	220	14	10	2	10	141	120	96	1050
	300	240	14	10	2	10	154	130	106	1050
FB-309 10x14-3	140	80	14	10	3	10	47	65	48	1050
	160	100	14	10	3	10	61	81	66	1050
	180	120	14	10	3	10	74	98	81	1050
	200	140	14	10	3	10	87	114	93	1050
	220	160	14	10	3	10	101	131	105	1050
	240	180	14	10	3	10	114	147	120	1050
	260	200	14	10	3	10	128	164	135	1050
	280	220	14	10	3	10	141	180	144	1050
	300	240	14	10	3	10	154	195	159	1050
FB-309 10x14-4	140	80	14	10	4	10	47	86	64	1050
	160	100	14	10	4	10	61	108	88	1050
	180	120	14	10	4	10	74	130	108	1050
	200	140	14	10	4	10	87	152	124	1050
	220	160	14	10	4	10	101	174	140	1050
	240	180	14	10	4	10	114	196	160	1050
	260	200	14	10	4	10	128	218	180	1050
	280	220	14	10	4	10	141	240	192	1050
	300	240	14	10	4	10	154	260	212	1050
FB-309 10x14-5	140	80	14	10	5	10	47	97	72	1050
	160	100	14	10	5	10	61	122	99	1050
	180	120	14	10	5	10	74	146	122	1050
	200	140	14	10	5	10	87	171	140	1050
	220	160	14	10	5	10	101	196	158	1050
	240	180	14	10	5	10	114	221	180	1050
	260	200	14	10	5	10	128	245	203	1050
	280	220	14	10	5	10	141	270	216	1050
	300	240	14	10	5	10	154	293	239	1050
FB-309 10x14-6	140	80	14	10	6	10	47	110	80	1050
	160	100	14	10	6	10	61	138	110	1050
	180	120	14	10	6	10	74	166	135	1050
	200	140	14	10	6	10	87	194	155	1050
	220	160	14	10	6	10	101	222	175	1050
	240	180	14	10	6	10	114	250	200	1050
	260	200	14	10	6	10	128	278	225	1050
	280	220	14	10	6	10	141	306	240	1050
	300	240	14	10	6	10	154	334	255	1050

Connector FB-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation:	Insulation:	Dim. [mm]
				Bars	Steel plates	Compress. bearing		80 mm	120 mm	
										S
FB-309 10x14-7	140	80	14	10	7	10	47	123	88	1050
	160	100	14	10	7	10	61	154	121	1050
	180	120	14	10	7	10	74	186	148	1050
	200	140	14	10	7	10	87	217	170	1050
	220	160	14	10	7	10	101	248	192	1050
	240	180	14	10	7	10	114	279	220	1050
	260	200	14	10	7	10	128	311	247	1050
	280	220	14	10	7	10	141	342	264	1050
	300	240	14	10	7	10	154	375	271	1050

Connector FBE-300 for cantilevered balcony slabs – for coigns

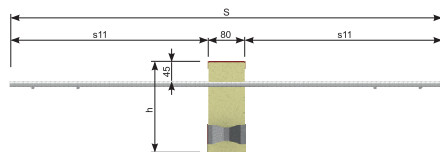
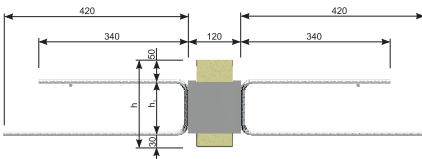


- Standard elements for floor slabs with thickness between 160 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of black steel, hot-dip galvanised carbon steel
- Steel plates made of stainless steel
- Steel compression bearing made of stainless steel (for ceilings 16 cm) or concrete bearing (ceilings 18 cm and higher)
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FBE - 310 6 × 10 - 4 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of steel plates



Connector FBE-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm V _{Res} (±) [kN]	Insulation 120 mm V _{Res} (±) [kN]	Dim. [mm] S
				Bars	Steel plates	Compress. bearing				
FBE-310 4x10-1	160	80	10	4	1	2	10	22	16	820
	180	100	10	4	1	2	12	27	22	820
	200	120	10	4	1	2	15	33	27	820
	220	140	10	4	1	2	18	38	31	820
	240	160	10	4	1	2	21	44	35	820
	260	180	10	4	1	2	23	49	40	820
	280	200	10	4	1	2	26	55	45	820
	300	220	10	4	1	2	29	60	48	820
FBE-310 4x10-2	160	80	10	4	2	2	10	43	32	820
	180	100	10	4	2	2	12	54	44	820
	200	120	10	4	2	2	15	65	54	820
	220	140	10	4	2	2	18	76	62	820
	240	160	10	4	2	2	21	87	70	820
	260	180	10	4	2	2	23	98	80	820
	280	200	10	4	2	2	26	109	90	820
	300	220	10	4	2	2	29	120	96	820
FBE-310 4x10-3	160	80	10	4	3	2	10	65	48	820
	180	100	10	4	3	2	12	81	66	820
	200	120	10	4	3	2	15	98	81	820
	220	140	10	4	3	2	18	114	93	820
	240	160	10	4	3	2	21	131	105	820
	260	180	10	4	3	2	23	147	120	820
	280	200	10	4	3	2	26	164	135	820
	300	220	10	4	3	2	29	180	144	820
FBE-311 6x10-1	160	80	10	6	1	3	16	22	16	820
	180	100	10	6	1	3	20	27	22	820
	200	120	10	6	1	3	24	33	27	820
	220	140	10	6	1	3	28	38	31	820
	240	160	10	6	1	3	32	44	35	820
	260	180	10	6	1	3	36	49	40	820
	280	200	10	6	1	3	40	55	45	820
	300	220	10	6	1	3	45	60	48	820
FBE-311 6x10-2	160	80	10	6	2	3	16	43	32	820
	180	100	10	6	2	3	20	54	44	820
	200	120	10	6	2	3	24	65	54	820
	220	140	10	6	2	3	28	76	62	820
	240	160	10	6	2	3	32	87	70	820
	260	180	10	6	2	3	36	98	80	820
	280	200	10	6	2	3	40	109	90	820
	300	220	10	6	2	3	45	120	96	820
FBE-311 6x10-3	160	80	10	6	3	3	16	65	48	820
	180	100	10	6	3	3	20	81	66	820
	200	120	10	6	3	3	24	98	81	820
	220	140	10	6	3	3	28	114	93	820
	240	160	10	6	3	3	32	131	105	820
	260	180	10	6	3	3	36	147	120	820
	280	200	10	6	3	3	40	164	135	820
	300	220	10	6	3	3	45	180	144	820

Connector FBE-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm] S
				Bars	Steel plates	Compress. bearing				
FBE-311 6x10-4	160	80	10	6	4	3	16	86	64	820
	180	100	10	6	4	3	20	108	88	820
	200	120	10	6	4	3	24	130	108	820
	220	140	10	6	4	3	28	152	124	820
	240	160	10	6	4	3	32	174	140	820
	260	180	10	6	4	3	36	196	160	820
	280	200	10	6	4	3	40	218	180	820
	300	220	10	6	4	3	45	240	192	820
FBE-311 6x10-5	160	80	10	6	5	3	16	97	72	820
	180	100	10	6	5	3	20	122	99	820
	200	120	10	6	5	3	24	146	122	820
	220	140	10	6	5	3	28	171	140	820
	240	160	10	6	5	3	32	196	158	820
	260	180	10	6	5	3	36	221	180	820
	280	200	10	6	5	3	40	245	203	820
	300	220	10	6	5	3	45	270	216	820
FBE-312 4x14-1	160	80	14	4	1	4	19	22	16	1050
	180	100	14	4	1	4	25	27	22	1050
	200	120	14	4	1	4	30	33	27	1050
	220	140	14	4	1	4	35	38	31	1050
	240	160	14	4	1	4	41	44	35	1050
	260	180	14	4	1	4	46	49	40	1050
	280	200	14	4	1	4	51	55	45	1050
	300	220	14	4	1	4	57	60	48	1050
FBE-312 4x14-2	160	80	14	4	2	4	19	43	32	1050
	180	100	14	4	2	4	25	54	44	1050
	200	120	14	4	2	4	30	65	54	1050
	220	140	14	4	2	4	35	76	62	1050
	240	160	14	4	2	4	41	87	70	1050
	260	180	14	4	2	4	46	98	80	1050
	280	200	14	4	2	4	51	109	90	1050
	300	220	14	4	2	4	57	120	96	1050
FBE-312 4x14-3	160	80	14	4	3	4	19	65	48	1050
	180	100	14	4	3	4	25	81	66	1050
	200	120	14	4	3	4	30	98	81	1050
	220	140	14	4	3	4	35	114	93	1050
	240	160	14	4	3	4	41	131	105	1050
	260	180	14	4	3	4	46	147	120	1050
	280	200	14	4	3	4	51	164	135	1050
	300	220	14	4	3	4	57	180	144	1050
FBE-313 6x14-1	160	80	14	6	1	6	30	22	16	1050
	180	100	14	6	1	6	38	27	22	1050
	200	120	14	6	1	6	46	33	27	1050
	220	140	14	6	1	6	54	38	31	1050
	240	160	14	6	1	6	62	44	35	1050
	260	180	14	6	1	6	71	49	40	1050
	280	200	14	6	1	6	79	55	45	1050
	300	220	14	6	1	6	87	60	48	1050

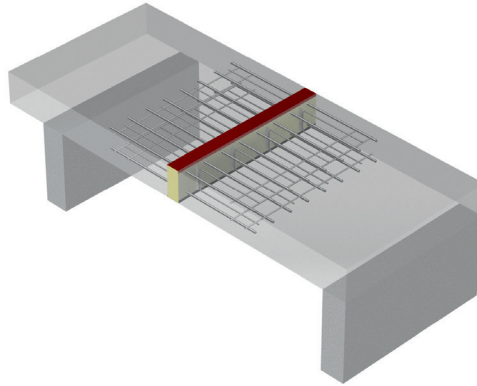
Connector FBE-300 / concrete grade $\geq C20/25$										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Steel plates	Compress. bearing		V _{Res} (±) [kN]	V _{Res} (±) [kN]	
									S	
FBE-313 6x14-2	160	80	14	6	2	6	30	43	32	1050
	180	100	14	6	2	6	38	54	44	1050
	200	120	14	6	2	6	46	65	54	1050
	220	140	14	6	2	6	54	76	62	1050
	240	160	14	6	2	6	62	87	70	1050
	260	180	14	6	2	6	71	98	80	1050
	280	200	14	6	2	6	79	109	90	1050
300	220	14	6	2	6	87	120	96	1050	
FBE-313 6x14-3	160	80	14	6	3	6	30	65	48	1050
	180	100	14	6	3	6	38	81	66	1050
	200	120	14	6	3	6	46	98	81	1050
	220	140	14	6	3	6	54	114	93	1050
	240	160	14	6	3	6	62	131	105	1050
	260	180	14	6	3	6	71	147	120	1050
	280	200	14	6	3	6	79	164	135	1050
300	220	14	6	3	6	87	180	144	1050	
FBE-313 6x14-4	160	80	14	6	4	6	30	86	64	1050
	180	100	14	6	4	6	38	108	88	1050
	200	120	14	6	4	6	46	130	108	1050
	220	140	14	6	4	6	54	152	124	1050
	240	160	14	6	4	6	62	174	140	1050
	260	180	14	6	4	6	71	196	160	1050
	280	200	14	6	4	6	79	218	180	1050
300	220	14	6	4	6	87	240	192	1050	
FBE-313 6x14-5	160	80	14	6	5	6	30	97	72	1050
	180	100	14	6	5	6	38	122	99	1050
	200	120	14	6	5	6	46	146	122	1050
	220	140	14	6	5	6	54	171	140	1050
	240	160	14	6	5	6	62	196	158	1050
	260	180	14	6	5	6	71	221	180	1050
	280	200	14	6	5	6	79	245	203	1050
300	220	14	6	5	6	87	270	216	1050	
FBE-314 8x14-1	160	80	14	8	1	8	40	22	16	1050
	180	100	14	8	1	8	51	27	22	1050
	200	120	14	8	1	8	62	33	27	1050
	220	140	14	8	1	8	73	38	31	1050
	240	160	14	8	1	8	83	44	35	1050
	260	180	14	8	1	8	94	49	40	1050
	280	200	14	8	1	8	105	55	45	1050
300	220	14	8	1	8	115	60	48	1050	
FBE-314 8x14-2	160	80	14	8	2	8	40	43	32	1050
	180	100	14	8	2	8	51	54	44	1050
	200	120	14	8	2	8	62	65	54	1050
	220	140	14	8	2	8	73	76	62	1050
	240	160	14	8	2	8	83	87	70	1050
	260	180	14	8	2	8	94	98	80	1050
	280	200	14	8	2	8	105	109	90	1050
300	220	14	8	2	8	115	120	96	1050	

Connector FBE-300 / concrete grade $\geq C20/25$

Symbol	h [mm]	h ₁ [mm]	Bar diameter Ø [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm]
				Bars	Steel plates	Compress. bearing				
FBE-314 8x14-3	160	80	14	8	3	8	40	65	48	1050
	180	100	14	8	3	8	51	81	66	1050
	200	120	14	8	3	8	62	98	81	1050
	220	140	14	8	3	8	73	114	93	1050
	240	160	14	8	3	8	83	131	105	1050
	260	180	14	8	3	8	94	147	120	1050
	280	200	14	8	3	8	105	164	135	1050
300	220	14	8	3	8	115	180	144	1050	
FBE-314 8x14-4	160	80	14	8	4	8	40	86	64	1050
	180	100	14	8	4	8	51	108	88	1050
	200	120	14	8	4	8	62	130	108	1050
	220	140	14	8	4	8	73	152	124	1050
	240	160	14	8	4	8	83	174	140	1050
	260	180	14	8	4	8	94	196	160	1050
	280	200	14	8	4	8	105	218	180	1050
300	220	14	8	4	8	115	240	192	1050	
FBE-314 8x14-5	160	80	14	8	5	8	40	97	72	1050
	180	100	14	8	5	8	51	122	99	1050
	200	120	14	8	5	8	62	146	122	1050
	220	140	14	8	5	8	73	171	140	1050
	240	160	14	8	5	8	83	196	158	1050
	260	180	14	8	5	8	94	221	180	1050
	280	200	14	8	5	8	105	245	203	1050
300	220	14	8	5	8	115	270	216	1050	
FBE-314 8x14-6	160	80	14	8	6	8	40	110	80	1050
	180	100	14	8	6	8	51	138	110	1050
	200	120	14	8	6	8	62	166	135	1050
	220	140	14	8	6	8	73	194	155	1050
	240	160	14	8	6	8	83	222	175	1050
	260	180	14	8	6	8	94	250	200	1050
	280	200	14	8	6	8	105	278	225	1050
300	220	14	8	6	8	115	306	240	1050	
FBE-314 8x14-7	160	80	14	8	7	8	40	123	88	1050
	180	100	14	8	7	8	51	154	121	1050
	200	120	14	8	7	8	62	186	148	1050
	220	140	14	8	7	8	73	217	170	1050
	240	160	14	8	7	8	83	248	192	1050
	260	180	14	8	7	8	94	279	220	1050
	280	200	14	8	7	8	105	311	247	1050
300	220	14	8	7	8	115	342	264	1050	
FBE-315 10x14-1	160	80	14	10	1	10	51	22	16	1050
	180	100	14	10	1	10	64	27	22	1050
	200	120	14	10	1	10	77	33	27	1050
	220	140	14	10	1	10	91	38	31	1050
	240	160	14	10	1	10	104	44	35	1050
	260	180	14	10	1	10	118	49	40	1050
	280	200	14	10	1	10	131	55	45	1050
300	220	14	10	1	10	144	60	48	1050	

Connector FBE-300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Steel plates	Compress. bearing		V _{Res} (±) [kN]	V _{Res} (±) [kN]	
									S	
FBE-315 10x14-2	160	80	14	10	2	10	51	43	32	1050
	180	100	14	10	2	10	64	54	44	1050
	200	120	14	10	2	10	77	65	54	1050
	220	140	14	10	2	10	91	76	62	1050
	240	160	14	10	2	10	104	87	70	1050
	260	180	14	10	2	10	118	98	80	1050
	280	200	14	10	2	10	131	109	90	1050
	300	220	14	10	2	10	144	120	96	1050
FBE-315 10x14-3	160	80	14	10	3	10	51	65	48	1050
	180	100	14	10	3	10	64	81	66	1050
	200	120	14	10	3	10	77	98	81	1050
	220	140	14	10	3	10	91	114	93	1050
	240	160	14	10	3	10	104	131	105	1050
	260	180	14	10	3	10	118	147	120	1050
	280	200	14	10	3	10	131	164	135	1050
	300	220	14	10	3	10	144	180	144	1050
FBE-315 10x14-4	160	80	14	10	4	10	51	86	64	1050
	180	100	14	10	4	10	64	108	88	1050
	200	120	14	10	4	10	77	130	108	1050
	220	140	14	10	4	10	91	152	124	1050
	240	160	14	10	4	10	104	174	140	1050
	260	180	14	10	4	10	118	196	160	1050
	280	200	14	10	4	10	131	218	180	1050
	300	220	14	10	4	10	144	240	192	1050
FBE-315 10x14-5	160	80	14	10	5	10	51	97	72	1050
	180	100	14	10	5	10	64	122	99	1050
	200	120	14	10	5	10	77	146	122	1050
	220	140	14	10	5	10	91	171	140	1050
	240	160	14	10	5	10	104	196	158	1050
	260	180	14	10	5	10	118	221	180	1050
	280	200	14	10	5	10	131	245	203	1050
	300	220	14	10	5	10	144	270	216	1050
FBE-315 10x14-6	160	80	14	10	6	10	51	110	80	1050
	180	100	14	10	6	10	64	138	110	1050
	200	120	14	10	6	10	77	166	135	1050
	220	140	14	10	6	10	91	194	155	1050
	240	160	14	10	6	10	104	222	175	1050
	260	180	14	10	6	10	118	250	200	1050
	280	200	14	10	6	10	131	278	225	1050
	300	220	14	10	6	10	144	306	240	1050
FBE-315 10x14-7	160	80	14	10	7	10	51	123	88	1050
	180	100	14	10	7	10	64	154	121	1050
	200	120	14	10	7	10	77	186	148	1050
	220	140	14	10	7	10	91	217	170	1050
	240	160	14	10	7	10	104	248	192	1050
	260	180	14	10	7	10	118	279	220	1050
	280	200	14	10	7	10	131	311	247	1050
	300	220	14	10	7	10	144	342	264	1050

Connector FB-400 for continuous connection of balcony slab with floor slab

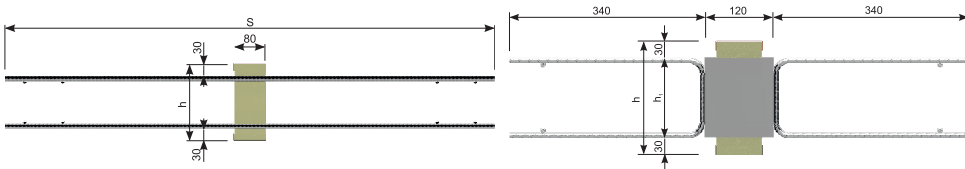


- Standard elements for floor slabs with thickness between 140 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of black steel, hot-dip galvanised carbon steel
- Steel plates made of stainless steel
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 404 8 × 14 - 4 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of steel plates



Connector FB-400 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity		M _{res} (±) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Steel plates		V _{res} (±) [kN]	V _{res} (±) [kN]	
FB-401 6x10-1	140	80	10	6	1	13	21	16	820
	160	100	10	6	1	16	27	22	820
	180	120	10	6	1	20	32	27	820
	200	140	10	6	1	23	38	31	820
	220	160	10	6	1	27	43	35	820
	240	180	10	6	1	31	49	40	820
	260	200	10	6	1	34	54	45	820
	280	220	10	6	1	38	60	48	820
	300	240	10	6	1	41	65	53	820

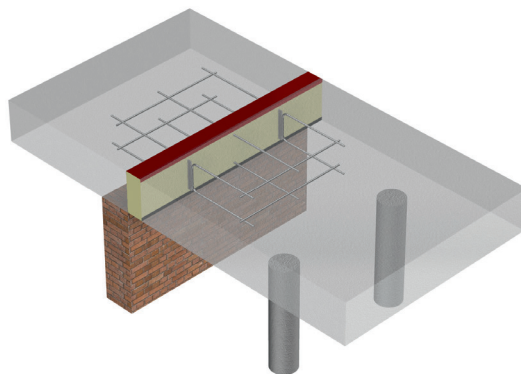
Connector FB-400 / concrete grade \geq C20/25										
Symbol	h [mm]	h _i [mm]	Bar diameter Ø [mm]	Quantity			M _{red} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates			80 mm	120 mm	
							V _{red} (±) [kN]	V _{red} (±) [kN]	S	
FB-401 6x10-2	140	80	10	6	2	13	43	32	820	
	160	100	10	6	2	16	54	44	820	
	180	120	10	6	2	20	65	54	820	
	200	140	10	6	2	23	76	62	820	
	220	160	10	6	2	27	87	70	820	
	240	180	10	6	2	31	98	80	820	
	260	200	10	6	2	34	109	90	820	
	280	220	10	6	2	38	120	96	820	
	300	240	10	6	2	41	130	106	820	
FB-401 6x10-3	140	80	10	6	3	13	65	48	820	
	160	100	10	6	3	16	81	66	820	
	180	120	10	6	3	20	98	81	820	
	200	140	10	6	3	23	114	93	820	
	220	160	10	6	3	27	131	105	820	
	240	180	10	6	3	31	147	120	820	
	260	200	10	6	3	34	164	135	820	
	280	220	10	6	3	38	180	144	820	
	300	240	10	6	3	41	195	159	820	
FB-402 4x14-1	140	80	14	4	1	17	21	16	1050	
	160	100	14	4	1	22	27	22	1050	
	180	120	14	4	1	27	32	27	1050	
	200	140	14	4	1	32	38	31	1050	
	220	160	14	4	1	38	43	35	1050	
	240	180	14	4	1	43	49	40	1050	
	260	200	14	4	1	48	54	45	1050	
	280	220	14	4	1	53	60	48	1050	
	300	240	14	4	1	58	65	53	1050	
FB-402 4x14-2	140	80	14	4	2	17	43	32	1050	
	160	100	14	4	2	22	54	44	1050	
	180	120	14	4	2	27	65	54	1050	
	200	140	14	4	2	32	76	62	1050	
	220	160	14	4	2	38	87	70	1050	
	240	180	14	4	2	43	98	80	1050	
	260	200	14	4	2	48	109	90	1050	
	280	220	14	4	2	53	120	96	1050	
	300	240	14	4	2	58	130	106	1050	
FB-402 4x14-3	140	80	14	4	3	17	65	48	1050	
	160	100	14	4	3	22	81	66	1050	
	180	120	14	4	3	27	98	81	1050	
	200	140	14	4	3	32	114	93	1050	
	220	160	14	4	3	38	131	105	1050	
	240	180	14	4	3	43	147	120	1050	
	260	200	14	4	3	48	164	135	1050	
	280	220	14	4	3	53	180	144	1050	
	300	240	14	4	3	58	195	159	1050	

Connector FB-400 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter ∅ [mm]	Quantity		M _{res} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Steel plates		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S
FB-403 6x14-2	140	80	14	6	2	25	43	32	1050
	160	100	14	6	2	33	54	44	1050
	180	120	14	6	2	41	65	54	1050
	200	140	14	6	2	49	76	62	1050
	220	160	14	6	2	56	87	70	1050
	240	180	14	6	2	64	98	80	1050
	260	200	14	6	2	72	109	90	1050
	280	220	14	6	2	80	120	96	1050
	300	240	14	6	2	87	130	106	1050
FB-403 6x14-3	140	80	14	6	3	25	65	48	1050
	160	100	14	6	3	33	81	66	1050
	180	120	14	6	3	41	98	81	1050
	200	140	14	6	3	49	114	93	1050
	220	160	14	6	3	56	131	105	1050
	240	180	14	6	3	64	147	120	1050
	260	200	14	6	3	72	164	135	1050
	280	220	14	6	3	80	180	144	1050
	300	240	14	6	3	87	195	159	1050
FB-403 6x14-4	140	80	14	6	4	25	86	64	1050
	160	100	14	6	4	33	108	88	1050
	180	120	14	6	4	41	130	108	1050
	200	140	14	6	4	49	152	124	1050
	220	160	14	6	4	56	174	140	1050
	240	180	14	6	4	64	196	160	1050
	260	200	14	6	4	72	218	180	1050
	280	220	14	6	4	80	240	192	1050
	300	240	14	6	4	87	260	212	1050
FB-404 8x14-2	140	80	14	8	2	34	43	32	1050
	160	100	14	8	2	44	54	44	1050
	180	120	14	8	2	55	65	54	1050
	200	140	14	8	2	65	76	62	1050
	220	160	14	8	2	75	87	70	1050
	240	180	14	8	2	85	98	80	1050
	260	200	14	8	2	96	109	90	1050
	280	220	14	8	2	106	120	96	1050
	300	240	14	8	2	116	130	106	1050
FB-404 8x14-3	140	80	14	8	3	34	65	48	1050
	160	100	14	8	3	44	81	66	1050
	180	120	14	8	3	55	98	81	1050
	200	140	14	8	3	65	114	93	1050
	220	160	14	8	3	75	131	105	1050
	240	180	14	8	3	85	147	120	1050
	260	200	14	8	3	96	164	135	1050
	280	220	14	8	3	106	180	144	1050
	300	240	14	8	3	116	195	159	1050

Connector FB-400 / concrete grade \geq C20/25

Symbol	h [mm]	h _i [mm]	Bar diameter \varnothing [mm]	Quantity			Insulation 80 mm V _{res} (±) [kN]	Insulation 120 mm V _{res} (±) [kN]	Dim. [mm] S
				Bars	Steel plates	M _{red} (±) [kNm]			
FB-404 8x14-4	140	80	14	8	4	34	86	64	1050
	160	100	14	8	4	44	108	88	1050
	180	120	14	8	4	55	130	108	1050
	200	140	14	8	4	65	152	124	1050
	220	160	14	8	4	75	174	140	1050
	240	180	14	8	4	85	196	160	1050
	260	200	14	8	4	96	218	180	1050
	280	220	14	8	4	106	240	192	1050
	300	240	14	8	4	116	260	212	1050

Connector FB-500 for balcony slabs swivel supported

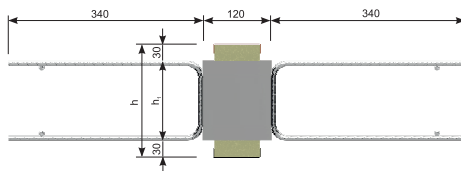
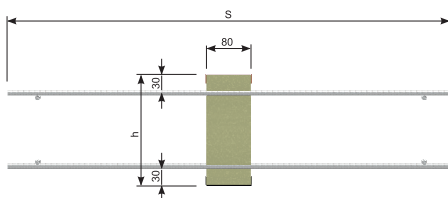


- Standard elements for floor slabs with thickness between 140 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of stainless steel
- Steel plates made of stainless steel
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 504 2 h=200 mm, XPS80, L=1000 mm

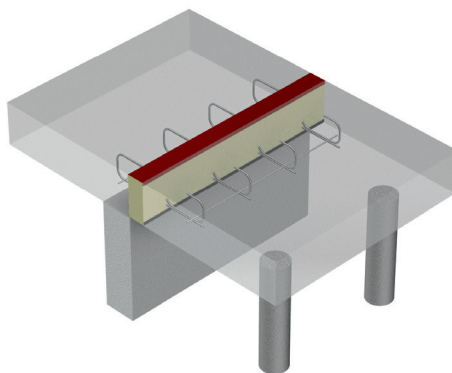
Type of connector Quantity of steel plates



Connector FB-500 / concrete grade \geq C20/25						
Symbol	h [mm]	h ₁ [mm]	Quantity	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
			Steel plates	V _{res} (±) [kN]	V _{res} (±) [kN]	S
FB-501 (1pl)	140	80	1	22	16	800
	160	100	1	27	22	800
	180	120	1	33	27	800
	200	140	1	38	31	800
	220	160	1	44	35	800
	240	180	1	49	40	800
	260	200	1	55	45	800
	280	220	1	60	48	800
300	240	1	65	53	800	
FB-502 (2pl)	140	80	2	43	32	800
	160	100	2	54	44	800
	180	120	2	65	54	800
	200	140	2	76	62	800
	220	160	2	87	70	800
	240	180	2	98	80	800
	260	200	2	109	90	800
	280	220	2	120	96	800
300	240	2	130	106	800	
FB-503 (1pl)	140	80	1	22	16	800
	160	100	1	27	22	800
	180	120	1	33	27	800
	200	140	1	38	31	800
	220	160	1	44	35	800
	240	180	1	49	40	800
	260	200	1	55	45	800
	280	220	1	60	48	800
300	240	1	65	53	800	
FB-504 (2pl)	140	80	2	43	32	800
	160	100	2	54	44	800
	180	120	2	65	54	800
	200	140	2	76	62	800
	220	160	2	87	70	800
	240	180	2	98	80	800
	260	200	2	109	90	800
	280	220	2	120	96	800
300	240	2	130	106	800	
FB-505 (3pl)	140	80	3	65	48	800
	160	100	3	81	66	800
	180	120	3	98	81	800
	200	140	3	114	93	800
	220	160	3	131	105	800
	240	180	3	147	120	800
	260	200	3	164	135	800
	280	220	3	180	144	800
300	240	3	195	159	800	

Connector FB-500 / concrete grade \geq C20/25						
Symbol	h [mm]	h ₁ [mm]	Quantity	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
			Steel plates	V _{res} (±) [kN]	V _{res} (±) [kN]	S
FB-506 (4pl)	140	80	4	86	64	800
	160	100	4	108	88	800
	180	120	4	130	108	800
	200	140	4	152	124	800
	220	160	4	174	140	800
	240	180	4	196	160	800
	260	200	4	218	180	800
	280	220	4	240	192	800
	300	240	4	260	212	800
FB-507 (5pl)	140	80	5	97	72	800
	160	100	5	122	99	800
	180	120	5	146	122	800
	200	140	5	171	140	800
	220	160	5	196	158	800
	240	180	5	221	180	800
	260	200	5	245	203	800
	280	220	5	270	216	800
	300	240	5	293	239	800
FB-508 (6pl)	140	80	6	110	80	800
	160	100	6	138	110	800
	180	120	6	166	135	800
	200	140	6	194	155	800
	220	160	6	222	175	800
	240	180	6	250	200	800
	260	200	6	278	225	800
	280	220	6	306	240	800
	300	240	6	334	255	800

Connector FB-600 for balcony slabs swivel supported



- Standard elements for floor slabs with thickness between 160 and 300 mm
- Standard thickness of insulation: 80 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars(hoop sticks) made of stainless steel
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

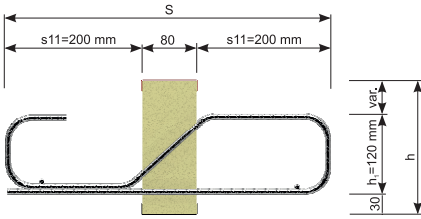
Example of marking:

FB - 604

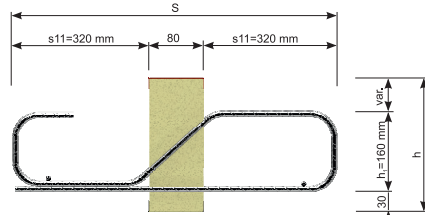
h=200 mm, XPS80, L=1000 mm

Type of connector

Up to h=200 mm



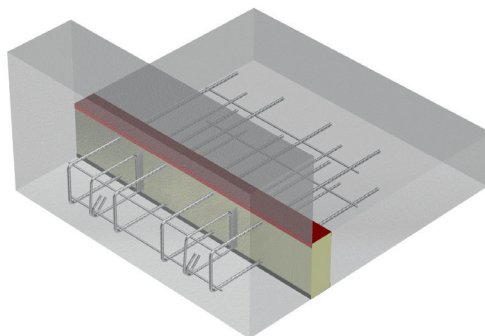
From h=200 mm



Connector FB-600 / concrete grade $\geq C20/25$							
Symbol	h [mm]	Bar diameter \varnothing [mm]	Quantity		Dimensions [mm]		
			Hoop sticks	$V_{Ed}(+)$ [kN]	S	s11	h
FB-601	160	8	2	38	480	200	120
	180	8	2	38	480	200	120
	200	8	2	38	480	200	120
	220	10	2	61	720	320	160
	240	10	2	61	720	320	160
	260	10	2	61	720	320	160
	280	10	2	61	720	320	160
	300	10	2	61	720	320	160
FB-602	160	8	2	38	480	200	120
	180	8	2	38	480	200	120
	200	8	2	38	480	200	120
	220	10	2	61	720	320	160
	240	10	2	61	720	320	160
	260	10	2	61	720	320	160
	280	10	2	61	720	320	160
	300	10	2	61	720	320	160
FB-603	160	8	3	57	480	200	120
	180	8	3	57	480	200	120
	200	8	3	57	480	200	120
	220	10	3	92	720	320	160
	240	10	3	92	720	320	160
	260	10	3	92	720	320	160
	280	10	3	92	720	320	160
	300	10	3	92	720	320	160
FB-604	160	8	4	76	480	200	120
	180	8	4	76	480	200	120
	200	8	4	76	480	200	120
	220	10	4	122	720	320	160
	240	10	4	122	720	320	160
	260	10	4	122	720	320	160
	280	10	4	122	720	320	160
	300	10	4	122	720	320	160

Connector FB-600 / concrete grade \geq C20/25								
Symbol	h [mm]	Bar diameter \varnothing [mm]	Quantity		$V_{res}^{(+)}$ [kN]	Dimensions [mm]		
			Hoop sticks			S	s11	h
FB-605	160	8	5		95	480	200	120
	180	8	5		95	480	200	120
	200	8	5		95	480	200	120
	220	10	5		153	720	320	160
	240	10	5		153	720	320	160
	260	10	5		153	720	320	160
	280	10	5		153	720	320	160
	300	10	5		153	720	320	160
FB-606	160	8	6		113	480	200	120
	180	8	6		113	480	200	120
	200	8	6		113	480	200	120
	220	10	6		184	720	320	160
	240	10	6		184	720	320	160
	260	10	6		184	720	320	160
	280	10	6		184	720	320	160
	300	10	6		184	720	320	160

Connector FB-700 for attic style, short consoles installation

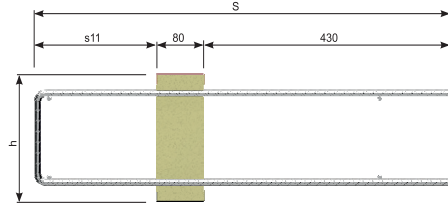
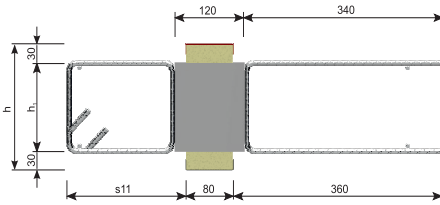


- Standard elements for floor slabs with thickness between 140 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars (steel plates) made of stainless steel
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 704 4 × 10 - 2 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of steel plates



Connector FB-700 / concrete grade \geq C20/25

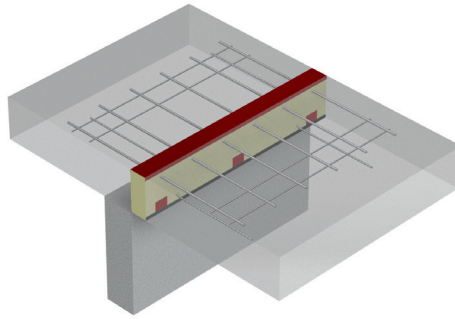
Symbol	h [mm]	Bar diameter ϕ [mm]	Quantity		$M_{Rd}(\pm)$ [kNm]	$M_{Rd}(\pm)$ [kNm]	$M_{Rd}(\pm)$ [kNm]	Insulation 80 mm $V_{Rd}(\pm)$ [kN]	Insulation 120 mm $V_{Rd}(\pm)$ [kN]	N_{Rd} [kN]	Dimension [mm]					
			Hoop sticks	Steel plates												
											s_{11} = 120 mm	s_{11} = 160 mm	s_{11} = 200 mm			
FB-701 2x10-1	140	10	2	1	4	4,5	5	22	16	124	120	160	200	630	670	710
	160	10	2	1	5	6	7	27	22	124	120	160	200	630	670	710
	180	10	2	1	6	7	8	33	27	124	120	160	200	630	670	710
	200	10	2	1	8	9	10	38	31	124	120	160	200	630	670	710
	220	10	2	1	9	10	11	44	35	124	120	160	200	630	670	710
	240	10	2	1	11	11,5	12	49	40	124	120	160	200	630	670	710
	260	10	2	1	12	13	14	55	45	124	120	160	200	630	670	710
	280	10	2	1	14	14,5	15	60	48	124	120	160	200	630	670	710
FB-702 2x10-1	140	10	2	1	4	4,5	5	22	16	124	120	160	200	630	670	710
	160	10	2	1	5	6	7	27	22	124	120	160	200	630	670	710
	180	10	2	1	6	7	8	33	27	124	120	160	200	630	670	710
	200	10	2	1	8	9	10	38	31	124	120	160	200	630	670	710
	220	10	2	1	9	10	11	44	35	124	120	160	200	630	670	710
	240	10	2	1	11	11,5	12	49	40	124	120	160	200	630	670	710
	260	10	2	1	12	13	14	55	45	124	120	160	200	630	670	710
	280	10	2	1	14	14,5	15	60	48	124	120	160	200	630	670	710
FB-703 3x10-1	140	10	3	1	6	7	8	22	16	186	120	160	200	630	670	710
	160	10	3	1	8	9	10	27	22	186	120	160	200	630	670	710
	180	10	3	1	10	11	12	33	27	186	120	160	200	630	670	710
	200	10	3	1	12	13	15	38	31	186	120	160	200	630	670	710
	220	10	3	1	14	15	17	44	35	186	120	160	200	630	670	710
	240	10	3	1	16	17	19	49	40	186	120	160	200	630	670	710
	260	10	3	1	18	19	21	55	45	186	120	160	200	630	670	710
	280	10	3	1	21	22	23	60	48	186	120	160	200	630	670	710
FB-703 3x10-2	140	10	3	2	6	7	8	43	32	186	120	160	200	630	670	710
	160	10	3	2	8	9	10	54	44	186	120	160	200	630	670	710
	180	10	3	2	10	11	12	65	54	186	120	160	200	630	670	710
	200	10	3	2	12	13	15	76	62	186	120	160	200	630	670	710
	220	10	3	2	14	15	17	87	70	186	120	160	200	630	670	710
	240	10	3	2	16	17	19	98	80	186	120	160	200	630	670	710
	260	10	3	2	18	19	21	109	90	186	120	160	200	630	670	710
	280	10	3	2	21	22	23	120	96	186	120	160	200	630	670	710

Connector FB-700 / concrete grade \geq C20/25																
Symbol	h [mm]	Bar diameter \varnothing [mm]	Quantity		s11 = 120 mm	s11 = 160 mm	s11 = 200 mm	Insulation 80 mm	Insulation 120 mm	$M_{red} = 0$	Dimension [mm]					
			Hoop sticks	Steel plates	$M_{hoop}(\pm)$ [kNm]	$M_{steel}(\pm)$ [kNm]	$M_{s11}(\pm)$ [kNm]	$V_{hoop}(\pm)$ [kN]	$V_{steel}(\pm)$ [kN]		N_{red} [kN]	s11			S	
FB-704 4x10-1	140	10	4	1	8	9	10	22	16	248	120	160	200	630	670	710
	160	10	4	1	10	11	13	27	22	248	120	160	200	630	670	710
	180	10	4	1	13	14	16	33	27	248	120	160	200	630	670	710
	200	10	4	1	15	17	19	38	31	248	120	160	200	630	670	710
	220	10	4	1	18	20	22	44	35	248	120	160	200	630	670	710
	240	10	4	1	21	23	25	49	40	248	120	160	200	630	670	710
	260	10	4	1	24	26	28	55	45	248	120	160	200	630	670	710
	280	10	4	1	27	29	31	60	48	248	120	160	200	630	670	710
300	10	4	1	31	32	34	65	53	248	120	160	200	630	670	710	
FB-704 4x10-2	140	10	4	2	8	9	10	43	32	248	120	160	200	630	670	710
	160	10	4	2	10	11	13	54	44	248	120	160	200	630	670	710
	180	10	4	2	13	14	16	65	54	248	120	160	200	630	670	710
	200	10	4	2	15	17	19	76	62	248	120	160	200	630	670	710
	220	10	4	2	18	20	22	87	70	248	120	160	200	630	670	710
	240	10	4	2	21	23	25	98	80	248	120	160	200	630	670	710
	260	10	4	2	24	26	28	109	90	248	120	160	200	630	670	710
	280	10	4	2	27	29	31	120	96	248	120	160	200	630	670	710
300	10	4	2	31	32	34	130	106	248	120	160	200	630	670	710	
FB-704 4x10-3	140	10	4	3	8	9	10	65	48	248	120	160	200	630	670	710
	160	10	4	3	10	11	13	81	66	248	120	160	200	630	670	710
	180	10	4	3	13	14	16	98	81	248	120	160	200	630	670	710
	200	10	4	3	15	17	19	114	93	248	120	160	200	630	670	710
	220	10	4	3	18	20	22	131	105	248	120	160	200	630	670	710
	240	10	4	3	21	23	25	147	120	248	120	160	200	630	670	710
	260	10	4	3	24	26	28	164	135	248	120	160	200	630	670	710
	280	10	4	3	27	29	31	180	144	248	120	160	200	630	670	710
300	10	4	3	31	32	34	195	159	248	120	160	200	630	670	710	
FB-705 6x10-1	140	10	6	1	11	13	15	22	16	372	120	160	200	630	670	710
	160	10	6	1	15	17	20	27	22	372	120	160	200	630	670	710
	180	10	6	1	19	21	24	33	27	372	120	160	200	630	670	710
	200	10	6	1	23	26	29	38	31	372	120	160	200	630	670	710
	220	10	6	1	27	30	33	44	35	372	120	160	200	630	670	710
	240	10	6	1	32	34	37	49	40	372	120	160	200	630	670	710
	260	10	6	1	36	39	42	55	45	372	120	160	200	630	670	710
	280	10	6	1	41	43	46	60	48	372	120	160	200	630	670	710
300	10	6	1	46	48	51	65	53	372	120	160	200	630	670	710	
FB-705 6x10-2	140	10	6	2	11	13	15	43	32	372	120	160	200	630	670	710
	160	10	6	2	15	17	20	54	44	372	120	160	200	630	670	710
	180	10	6	2	19	21	24	65	54	372	120	160	200	630	670	710
	200	10	6	2	23	26	29	76	62	372	120	160	200	630	670	710
	220	10	6	2	27	30	33	87	70	372	120	160	200	630	670	710
	240	10	6	2	32	34	37	98	80	372	120	160	200	630	670	710
	260	10	6	2	36	39	42	109	90	372	120	160	200	630	670	710
	280	10	6	2	41	43	46	120	96	372	120	160	200	630	670	710
300	10	6	2	46	48	51	130	106	372	120	160	200	630	670	710	

Connector FB-700 / concrete grade \geq C20/25

Symbol	h [mm]	Bar diameter \varnothing [mm]	Quantity		s11 = 120 mm	s11 = 160 mm	s11 = 200 mm	Insulation 80 mm	Insulation 120 mm	$M_{red} = 0$	Dimensions [mm]					
			Hoop sticks	Steel plates	$M_{red}(\pm)$ [kNm]	$M_{red}(\pm)$ [kNm]	$M_{red}(\pm)$ [kNm]	$V_{red}(\pm)$ [kN]	$V_{red}(\pm)$ [kN]		N_{red} [kN]	s11			S	
FB-705 6x10-3	140	10	6	3	11	13	15	65	48	372	120	160	200	630	670	710
	160	10	6	3	15	17	20	81	66	372	120	160	200	630	670	710
	180	10	6	3	19	21	24	98	81	372	120	160	200	630	670	710
	200	10	6	3	23	26	29	114	93	372	120	160	200	630	670	710
	220	10	6	3	27	30	33	131	105	372	120	160	200	630	670	710
	240	10	6	3	32	34	37	147	120	372	120	160	200	630	670	710
	260	10	6	3	36	39	42	164	135	372	120	160	200	630	670	710
	280	10	6	3	41	43	46	180	144	372	120	160	200	630	670	710
	300	10	6	3	46	48	51	195	159	372	120	160	200	630	670	710

Connector FB-1100 for cantilevered balcony slabs

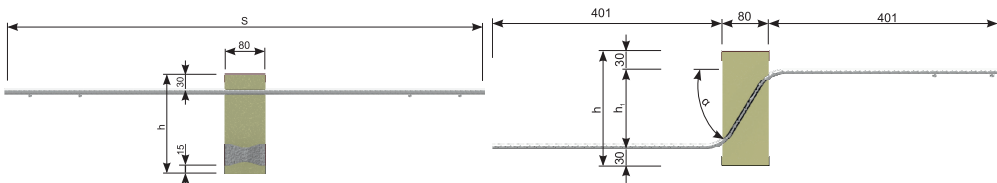


- Standard elements for floor slabs with thickness between 160 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars and hoop sticks made of stainless steel
- Steel compression bearing made of stainless steel (for ceilings 16 cm) or concrete bearing (ceilings 18 cm and higher)
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 1104 6 × 10 - 2 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of hoop sticks



Connector FB-1100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm V _{Res} (+) [kN]	Insulation 120 mm V _{Res} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1101 2x10-1	160	90	10	2	1	1	8	17	13	960
	180	110	10	2	1	2	10	19	16	960
	200	130	10	2	1	2	11	21	18	960
	220	150	10	2	1	2	13	22	19	960
	240	170	10	2	1	2	15	23	21	960
	260	190	10	2	1	2	17	24	22	960
	280	210	10	2	1	2	18	25	23	960
	300	230	10	2	1	2	20	25	23	960
FB-1102 2x14-2	160	90	14	2	2	2	15	34	27	1280
	180	110	14	2	2	3	19	38	32	1280
	200	130	14	2	2	3	22	42	36	1280
	220	150	14	2	2	3	26	45	39	1280
	240	170	14	2	2	3	29	47	41	1280
	260	190	14	2	2	3	33	48	44	1280
	280	210	14	2	2	3	36	50	45	1280
	300	230	14	2	2	3	40	51	47	1280
FB-1103 4x10-1	160	90	10	4	1	2	15	17	13	960
	180	110	10	4	1	4	19	19	16	960
	200	130	10	4	1	4	23	21	18	960
	220	150	10	4	1	4	26	22	19	960
	240	170	10	4	1	4	30	23	21	960
	260	190	10	4	1	4	33	24	22	960
	280	210	10	4	1	4	37	25	23	960
	300	230	10	4	1	4	40	25	23	960
FB-1103 4x10-2	160	90	10	4	2	2	15	34	27	960
	180	110	10	4	2	4	19	38	32	960
	200	130	10	4	2	4	23	42	36	960
	220	150	10	4	2	4	26	45	39	960
	240	170	10	4	2	4	30	47	41	960
	260	190	10	4	2	4	33	48	44	960
	280	210	10	4	2	4	37	50	45	960
	300	230	10	4	2	4	40	51	47	960
FB-1103 4x10-3	160	90	10	4	3	2	15	50	40	960
	180	110	10	4	3	4	19	57	47	960
	200	130	10	4	3	4	23	63	53	960
	220	150	10	4	3	4	26	67	58	960
	240	170	10	4	3	4	30	70	62	960
	260	190	10	4	3	4	33	73	65	960
	280	210	10	4	3	4	37	75	68	960
	300	230	10	4	3	4	40	76	70	960
FB-1104 6x10-1	160	90	10	6	1	3	23	17	13	960
	180	110	10	6	1	4	28	19	16	960
	200	130	10	6	1	4	34	21	18	960
	220	150	10	6	1	4	39	22	19	960
	240	170	10	6	1	4	44	23	21	960
	260	190	10	6	1	4	50	24	22	960
	280	210	10	6	1	4	55	25	23	960
	300	230	10	6	1	4	60	25	23	960

Connector FB-1100 / concrete grade \geq C20/25

Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (+) [kN]	Insulation 120 mm V _{res} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1104 6x10-2	160	90	10	6	2	3	23	34	27	960
	180	110	10	6	2	4	28	38	32	960
	200	130	10	6	2	4	34	42	36	960
	220	150	10	6	2	4	39	45	39	960
	240	170	10	6	2	4	44	47	41	960
	260	190	10	6	2	4	50	48	44	960
	280	210	10	6	2	4	55	50	45	960
300	230	10	6	2	4	60	51	47	960	
FB-1104 6x10-3	160	90	10	6	3	3	23	50	40	960
	180	110	10	6	3	4	28	57	47	960
	200	130	10	6	3	4	34	63	53	960
	220	150	10	6	3	4	39	67	58	960
	240	170	10	6	3	4	44	70	62	960
	260	190	10	6	3	4	50	73	65	960
	280	210	10	6	3	4	55	75	68	960
300	230	10	6	3	4	60	76	70	960	
FB-1104 6x10-4	160	90	10	6	4	3	23	67	54	960
	180	110	10	6	4	4	28	76	63	960
	200	130	10	6	4	4	34	84	71	960
	220	150	10	6	4	4	39	89	78	960
	240	170	10	6	4	4	44	93	83	960
	260	190	10	6	4	4	50	97	87	960
	280	210	10	6	4	4	55	99	91	960
300	230	10	6	4	4	60	101	94	960	
FB-1104 6x10-5	160	90	10	6	5	3	23	84	67	960
	180	110	10	6	5	4	28	96	79	960
	200	130	10	6	5	4	34	105	89	960
	220	150	10	6	5	4	39	111	97	960
	240	170	10	6	5	4	44	117	104	960
	260	190	10	6	5	4	50	121	109	960
	280	210	10	6	5	4	55	124	113	960
300	230	10	6	5	4	60	127	117	960	
FB-1105 4x14-1	160	90	14	4	1	4	30	17	13	1280
	180	110	14	4	1	6	37	19	16	1280
	200	130	14	4	1	6	44	21	18	1280
	220	150	14	4	1	6	51	22	19	1280
	240	170	14	4	1	6	58	23	21	1280
	260	190	14	4	1	6	65	24	22	1280
	280	210	14	4	1	6	72	25	23	1280
300	230	14	4	1	6	79	25	23	1280	
FB-1105 4x14-2	160	90	14	4	2	4	30	34	27	1280
	180	110	14	4	2	6	37	38	32	1280
	200	130	14	4	2	6	44	42	36	1280
	220	150	14	4	2	6	51	45	39	1280
	240	170	14	4	2	6	58	47	41	1280
	260	190	14	4	2	6	65	48	44	1280
	280	210	14	4	2	6	72	50	45	1280
300	230	14	4	2	6	79	51	47	1280	

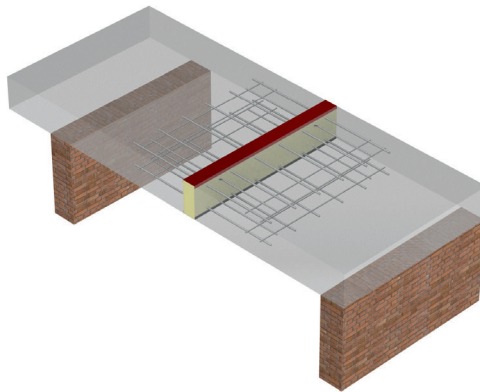
Connector FB-1100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res(-)} [kNm]	Insulation 80 mm V _{Res(+)} [kN]	Insulation 120 mm V _{Res(+)} [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1105 4x14-3	160	90	14	4	3	4	30	50	40	1280
	180	110	14	4	3	6	37	57	47	1280
	200	130	14	4	3	6	44	63	53	1280
	220	150	14	4	3	6	51	67	58	1280
	240	170	14	4	3	6	58	70	62	1280
	260	190	14	4	3	6	65	73	65	1280
	280	210	14	4	3	6	72	75	68	1280
	300	230	14	4	3	6	79	76	70	1280
FB-1106 6x14-1	160	90	14	6	1	6	45	17	13	1280
	180	110	14	6	1	7	56	19	16	1280
	200	130	14	6	1	7	66	21	18	1280
	220	150	14	6	1	7	77	22	19	1280
	240	170	14	6	1	7	87	23	21	1280
	260	190	14	6	1	7	98	24	22	1280
	280	210	14	6	1	7	108	25	23	1280
	300	230	14	6	1	7	119	25	23	1280
FB-1106 6x14-2	160	90	14	6	2	6	45	34	27	1280
	180	110	14	6	2	7	56	38	32	1280
	200	130	14	6	2	7	66	42	36	1280
	220	150	14	6	2	7	77	45	39	1280
	240	170	14	6	2	7	87	47	41	1280
	260	190	14	6	2	7	98	48	44	1280
	280	210	14	6	2	7	108	50	45	1280
	300	230	14	6	2	7	119	51	47	1280
FB-1106 6x14-3	160	90	14	6	3	6	45	50	40	1280
	180	110	14	6	3	7	56	57	47	1280
	200	130	14	6	3	7	66	63	53	1280
	220	150	14	6	3	7	77	67	58	1280
	240	170	14	6	3	7	87	70	62	1280
	260	190	14	6	3	7	98	73	65	1280
	280	210	14	6	3	7	108	75	68	1280
	300	230	14	6	3	7	119	76	70	1280
FB-1106 6x14-4	160	90	14	6	4	6	45	67	54	1280
	180	110	14	6	4	7	56	76	63	1280
	200	130	14	6	4	7	66	84	71	1280
	220	150	14	6	4	7	77	89	78	1280
	240	170	14	6	4	7	87	93	83	1280
	260	190	14	6	4	7	98	97	87	1280
	280	210	14	6	4	7	108	99	91	1280
	300	230	14	6	4	7	119	101	94	1280
FB-1106 6x14-5	160	90	14	6	5	6	45	84	67	1280
	180	110	14	6	5	7	56	96	79	1280
	200	130	14	6	5	7	66	105	89	1280
	220	150	14	6	5	7	77	111	97	1280
	240	170	14	6	5	7	87	117	104	1280
	260	190	14	6	5	7	98	121	109	1280
	280	210	14	6	5	7	108	124	113	1280
	300	230	14	6	5	7	119	127	117	1280

Connector FB-1107 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (+) [kN]	Insulation 120 mm V _{res} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1107 8x14-1	160	90	14	8	1	8	61	17	13	1280
	180	110	14	8	1	9	74	19	16	1280
	200	130	14	8	1	9	88	21	18	1280
	220	150	14	8	1	9	102	22	19	1280
	240	170	14	8	1	9	116	23	21	1280
	260	190	14	8	1	9	130	24	22	1280
	280	210	14	8	1	9	144	25	23	1280
300	230	14	8	1	9	158	25	23	1280	
FB-1107 8x14-2	160	90	14	8	2	8	61	34	27	1280
	180	110	14	8	2	9	74	38	32	1280
	200	130	14	8	2	9	88	42	36	1280
	220	150	14	8	2	9	102	45	39	1280
	240	170	14	8	2	9	116	47	41	1280
	260	190	14	8	2	9	130	48	44	1280
	280	210	14	8	2	9	144	50	45	1280
300	230	14	8	2	9	158	51	47	1280	
FB-1107 8x14-3	160	90	14	8	3	8	61	50	40	1280
	180	110	14	8	3	9	74	57	47	1280
	200	130	14	8	3	9	88	63	53	1280
	220	150	14	8	3	9	102	67	58	1280
	240	170	14	8	3	9	116	70	62	1280
	260	190	14	8	3	9	130	73	65	1280
	280	210	14	8	3	9	144	75	68	1280
300	230	14	8	3	9	158	76	70	1280	
FB-1107 8x14-4	160	90	14	8	4	8	61	67	54	1280
	180	110	14	8	4	9	74	76	63	1280
	200	130	14	8	4	9	88	84	71	1280
	220	150	14	8	4	9	102	89	78	1280
	240	170	14	8	4	9	116	93	83	1280
	260	190	14	8	4	9	130	97	87	1280
	280	210	14	8	4	9	144	99	91	1280
300	230	14	8	4	9	158	101	94	1280	
FB-1107 8x14-5	160	90	14	8	5	8	61	84	67	1280
	180	110	14	8	5	9	74	96	79	1280
	200	130	14	8	5	9	88	105	89	1280
	220	150	14	8	5	9	102	111	97	1280
	240	170	14	8	5	9	116	117	104	1280
	260	190	14	8	5	9	130	121	109	1280
	280	210	14	8	5	9	144	124	113	1280
300	230	14	8	5	9	158	127	117	1280	
FB-1107 8x14-6	160	90	14	8	6	8	61	101	80	1280
	180	110	14	8	6	9	74	115	95	1280
	200	130	14	8	6	9	88	126	106	1280
	220	150	14	8	6	9	102	133	116	1280
	240	170	14	8	6	9	116	140	125	1280
	260	190	14	8	6	9	130	145	131	1280
	280	210	14	8	6	9	144	148	135	1280
300	230	14	8	6	9	158	152	140	1280	

Connector FB-1100 / concrete grade \geq C20/25											
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm V _{Res} (+) [kN]	Insulation 120 mm V _{Res} (+) [kN]	Dim. [mm]	S
				Bars	Hoop sticks	Compress. bearing					
FB-1107 8x14-7	160	90	14	8	7	8	61	118	93	1280	
	180	110	14	8	7	9	74	134	111	1280	
	200	130	14	8	7	9	88	147	123	1280	
	220	150	14	8	7	9	102	155	135	1280	
	240	170	14	8	7	9	116	163	146	1280	
	260	190	14	8	7	9	130	169	153	1280	
	280	210	14	8	7	9	144	172	157	1280	
	300	230	14	8	7	9	158	177	163	1280	
FB-1108 10x14-1	160	90	14	10	1	10	76	17	13	1280	
	180	110	14	10	1	12	93	19	16	1280	
	200	130	14	10	1	12	111	21	18	1280	
	220	150	14	10	1	12	128	22	19	1280	
	240	170	14	10	1	12	145	23	21	1280	
	260	190	14	10	1	12	163	24	22	1280	
	280	210	14	10	1	12	180	25	23	1280	
	300	230	14	10	1	12	198	25	23	1280	
FB-1108 10x14-2	160	90	14	10	2	10	76	34	27	1280	
	180	110	14	10	2	12	93	38	32	1280	
	200	130	14	10	2	12	111	42	36	1280	
	220	150	14	10	2	12	128	45	39	1280	
	240	170	14	10	2	12	145	47	41	1280	
	260	190	14	10	2	12	163	48	44	1280	
	280	210	14	10	2	12	180	50	45	1280	
	300	230	14	10	2	12	198	51	47	1280	
FB-1108 10x14-3	160	90	14	10	3	10	76	50	40	1280	
	180	110	14	10	3	12	93	57	47	1280	
	200	130	14	10	3	12	111	63	53	1280	
	220	150	14	10	3	12	128	67	58	1280	
	240	170	14	10	3	12	145	70	62	1280	
	260	190	14	10	3	12	163	73	65	1280	
	280	210	14	10	3	12	180	75	68	1280	
	300	230	14	10	3	12	198	76	70	1280	
FB-1108 10x14-4	160	90	14	10	4	10	76	67	54	1280	
	180	110	14	10	4	12	93	76	63	1280	
	200	130	14	10	4	12	111	84	71	1280	
	220	150	14	10	4	12	128	89	78	1280	
	240	170	14	10	4	12	145	93	83	1280	
	260	190	14	10	4	12	163	97	87	1280	
	280	210	14	10	4	12	180	99	91	1280	
	300	230	14	10	4	12	198	101	94	1280	
FB-1108 10x14-5	160	90	14	10	5	10	76	84	67	1280	
	180	110	14	10	5	12	93	96	79	1280	
	200	130	14	10	5	12	111	105	89	1280	
	220	150	14	10	5	12	128	111	97	1280	
	240	170	14	10	5	12	145	117	104	1280	
	260	190	14	10	5	12	163	121	109	1280	
	280	210	14	10	5	12	180	124	113	1280	
	300	230	14	10	5	12	198	127	117	1280	

Connector FB-1100 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Ed} (-) [kNm]	Insulation 80 mm V _{Ed} (+) [kN]	Insulation 120 mm V _{Ed} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1108 10x14-6	160	90	14	10	6	10	76	101	80	1280
	180	110	14	10	6	12	93	115	95	1280
	200	130	14	10	6	12	111	126	106	1280
	220	150	14	10	6	12	128	133	116	1280
	240	170	14	10	6	12	145	140	125	1280
	260	190	14	10	6	12	163	145	131	1280
	280	210	14	10	6	12	180	148	135	1280
300	230	14	10	6	12	198	152	140	1280	
FB-1108 10x14-7	160	90	14	10	7	10	76	118	93	1280
	180	110	14	10	7	12	93	134	111	1280
	200	130	14	10	7	12	111	147	123	1280
	220	150	14	10	7	12	128	155	135	1280
	240	170	14	10	7	12	145	163	146	1280
	260	190	14	10	7	12	163	169	153	1280
	280	210	14	10	7	12	180	172	157	1280
300	230	14	10	7	12	198	177	163	1280	

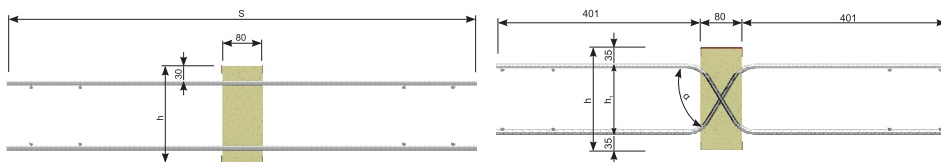
Connector FB-1200 for continuous connection of balcony slab with floor slab



- Standard elements for floor slabs with thickness between 160 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of stainless steel
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 1204 6 × 10 - 2 h=200 mm, XPS80, L=1000 mm
Type of connector Quantity of bars Bar diameter Quantity of hoop sticks



Connector FB-1200 / concrete grade $\geq C20/25$

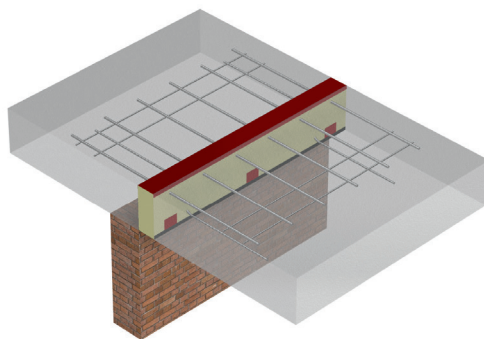
Symbol	h [mm]	h ₁ [mm]	Bar diameter Ø [mm]	Quantity		M _{res} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Hoop sticks		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S
FB-1201 2x10-1	160	90	10	2	1+1	7	15	12	960
	180	110	10	2	1+1	9	17	14	960
	200	130	10	2	1+1	11	19	16	960
	220	150	10	2	1+1	12	21	18	960
	240	170	10	2	1+1	14	22	19	960
	260	190	10	2	1+1	16	23	21	960
	280	210	10	2	1+1	18	24	22	960
	300	230	10	2	1+1	20	24	22	960
FB-1202 2x14-2	160	90	14	2	2+2	13	30	24	1280
	180	110	14	2	2+2	17	35	29	1280
	200	130	14	2	2+2	20	39	33	1280
	220	150	14	2	2+2	24	42	36	1280
	240	170	14	2	2+2	27	44	39	1280
	260	190	14	2	2+2	31	46	41	1280
	280	210	14	2	2+2	34	48	43	1280
	300	230	14	2	2+2	38	49	45	1280
FB-1203 4x10-1	160	90	10	4	1+1	14	15	12	960
	180	110	10	4	1+1	18	17	14	960
	200	130	10	4	1+1	21	19	16	960
	220	150	10	4	1+1	25	21	18	960
	240	170	10	4	1+1	28	22	19	960
	260	190	10	4	1+1	32	23	21	960
	280	210	10	4	1+1	35	24	22	960
	300	230	10	4	1+1	39	24	22	960
FB-1203 4x10-2	160	90	10	4	2+2	14	30	24	960
	180	110	10	4	2+2	18	35	29	960
	200	130	10	4	2+2	21	39	33	960
	220	150	10	4	2+2	25	42	36	960
	240	170	10	4	2+2	28	44	39	960
	260	190	10	4	2+2	32	46	41	960
	280	210	10	4	2+2	35	48	43	960
	300	230	10	4	2+2	39	49	45	960
FB-1203 4x10-3	160	90	10	4	3+3	14	45	37	960
	180	110	10	4	3+3	18	52	43	960
	200	130	10	4	3+3	21	58	49	960
	220	150	10	4	3+3	25	62	54	960
	240	170	10	4	3+3	28	66	58	960
	260	190	10	4	3+3	32	69	62	960
	280	210	10	4	3+3	35	71	65	960
	300	230	10	4	3+3	39	73	67	960

Connector FB-1200 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity		M _{res} (±) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Hoop sticks		V _{res} (±) [kN]	V _{res} (±) [kN]	
FB-1204 6x10-1	160	90	10	6	1+1	21	15	12	960
	180	110	10	6	1+1	27	17	14	960
	200	130	10	6	1+1	32	19	16	960
	220	150	10	6	1+1	37	21	18	960
	240	170	10	6	1+1	43	22	19	960
	260	190	10	6	1+1	48	23	21	960
	280	210	10	6	1+1	53	24	22	960
300	230	10	6	1+1	59	24	22	960	
FB-1204 6x10-2	160	90	10	6	2+2	21	30	24	960
	180	110	10	6	2+2	27	35	29	960
	200	130	10	6	2+2	32	39	33	960
	220	150	10	6	2+2	37	42	36	960
	240	170	10	6	2+2	43	44	39	960
	260	190	10	6	2+2	48	46	41	960
	280	210	10	6	2+2	53	48	43	960
300	230	10	6	2+2	59	49	45	960	
FB-1204 6x10-3	160	90	10	6	3+3	21	45	37	960
	180	110	10	6	3+3	27	52	43	960
	200	130	10	6	3+3	32	58	49	960
	220	150	10	6	3+3	37	62	54	960
	240	170	10	6	3+3	43	66	58	960
	260	190	10	6	3+3	48	69	62	960
	280	210	10	6	3+3	53	71	65	960
300	230	10	6	3+3	59	73	67	960	
FB-1205 4x14-1	160	90	14	4	1+1	26	15	12	1280
	180	110	14	4	1+1	33	17	14	1280
	200	130	14	4	1+1	40	19	16	1280
	220	150	14	4	1+1	47	21	18	1280
	240	170	14	4	1+1	54	22	19	1280
	260	190	14	4	1+1	61	23	21	1280
	280	210	14	4	1+1	68	24	22	1280
300	230	14	4	1+1	75	24	22	1280	
FB-1205 4x14-2	160	90	14	4	2+2	26	30	24	1280
	180	110	14	4	2+2	33	35	29	1280
	200	130	14	4	2+2	40	39	33	1280
	220	150	14	4	2+2	47	42	36	1280
	240	170	14	4	2+2	54	44	39	1280
	260	190	14	4	2+2	61	46	41	1280
	280	210	14	4	2+2	68	48	43	1280
300	230	14	4	2+2	75	49	45	1280	
FB-1205 4x14-3	160	90	14	4	3+3	26	45	37	1280
	180	110	14	4	3+3	33	52	43	1280
	200	130	14	4	3+3	40	58	49	1280
	220	150	14	4	3+3	47	62	54	1280
	240	170	14	4	3+3	54	66	58	1280
	260	190	14	4	3+3	61	69	62	1280
	280	210	14	4	3+3	68	71	65	1280
300	230	14	4	3+3	75	73	67	1280	

Connector FB-1200 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity		M _{res} (±) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Hoop sticks		V _{res} (±) [kN]	V _{res} (±) [kN]	
FB-1206 6x14-2	160	90	14	6	2+2	40	30	24	1280
	180	110	14	6	2+2	50	35	29	1280
	200	130	14	6	2+2	61	39	33	1280
	220	150	14	6	2+2	71	42	36	1280
	240	170	14	6	2+2	81	44	39	1280
	260	190	14	6	2+2	92	46	41	1280
	280	210	14	6	2+2	102	48	43	1280
300	230	14	6	2+2	113	49	45	1280	
FB-1206 6x14-3	160	90	14	6	3+3	40	45	37	1280
	180	110	14	6	3+3	50	52	43	1280
	200	130	14	6	3+3	61	58	49	1280
	220	150	14	6	3+3	71	62	54	1280
	240	170	14	6	3+3	81	66	58	1280
	260	190	14	6	3+3	92	69	62	1280
	280	210	14	6	3+3	102	71	65	1280
300	230	14	6	3+3	113	73	67	1280	
FB-1206 6x14-4	160	90	14	6	4+4	40	60	49	1280
	180	110	14	6	4+4	50	69	58	1280
	200	130	14	6	4+4	61	77	66	1280
	220	150	14	6	4+4	71	83	72	1280
	240	170	14	6	4+4	81	88	78	1280
	260	190	14	6	4+4	92	92	83	1280
	280	210	14	6	4+4	102	95	86	1280
300	230	14	6	4+4	113	98	90	1280	
FB-1207 8x14-2	160	90	14	8	2+2	53	30	24	1280
	180	110	14	8	2+2	67	35	29	1280
	200	130	14	8	2+2	81	39	33	1280
	220	150	14	8	2+2	95	42	36	1280
	240	170	14	8	2+2	109	44	39	1280
	260	190	14	8	2+2	123	46	41	1280
	280	210	14	8	2+2	136	48	43	1280
300	230	14	8	2+2	150	49	45	1280	
FB-1207 8x14-3	160	90	14	8	3+3	53	45	37	1280
	180	110	14	8	3+3	67	52	43	1280
	200	130	14	8	3+3	81	58	49	1280
	220	150	14	8	3+3	95	62	54	1280
	240	170	14	8	3+3	109	66	58	1280
	260	190	14	8	3+3	123	69	62	1280
	280	210	14	8	3+3	136	71	65	1280
300	230	14	8	3+3	150	73	67	1280	
FB-1207 8x14-4	160	90	14	8	4+4	53	60	49	1280
	180	110	14	8	4+4	67	69	58	1280
	200	130	14	8	4+4	81	77	66	1280
	220	150	14	8	4+4	95	83	72	1280
	240	170	14	8	4+4	109	88	78	1280
	260	190	14	8	4+4	123	92	83	1280
	280	210	14	8	4+4	136	95	86	1280
300	230	14	8	4+4	150	98	90	1280	

Connector FB-1200 / concrete grade \geq C20/25										
Symbol	h [mm]	h _i [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (\pm) [kNm]	Insulation 80 mm	Insulation 120 mm	Dim. [mm]
				Bars	Hoop sticks			V _{res} (\pm) [kN]	V _{res} (\pm) [kN]	
FB-1208 10x14-3	160	90	14	10	3+3	66	45	37	1280	
	180	110	14	10	3+3	84	52	43	1280	
	200	130	14	10	3+3	101	58	49	1280	
	220	150	14	10	3+3	118	62	54	1280	
	240	170	14	10	3+3	136	66	58	1280	
	260	190	14	10	3+3	153	69	62	1280	
	280	210	14	10	3+3	171	71	65	1280	
FB-1208 10x14-4	160	90	14	10	4+4	66	60	49	1280	
	180	110	14	10	4+4	84	69	58	1280	
	200	130	14	10	4+4	101	77	66	1280	
	220	150	14	10	4+4	118	83	72	1280	
	240	170	14	10	4+4	136	88	78	1280	
	260	190	14	10	4+4	153	92	83	1280	
	280	210	14	10	4+4	171	95	86	1280	
FB-1208 10x14-5	160	90	14	10	5+5	66	75	61	1280	
	180	110	14	10	5+5	84	87	72	1280	
	200	130	14	10	5+5	101	96	82	1280	
	220	150	14	10	5+5	118	104	90	1280	
	240	170	14	10	5+5	136	110	97	1280	
	260	190	14	10	5+5	153	115	103	1280	
	280	210	14	10	5+5	171	119	108	1280	
300	230	14	10	5+5	188	122	112	1280		

Connector FB-1300 for cantilevered balcony slabs

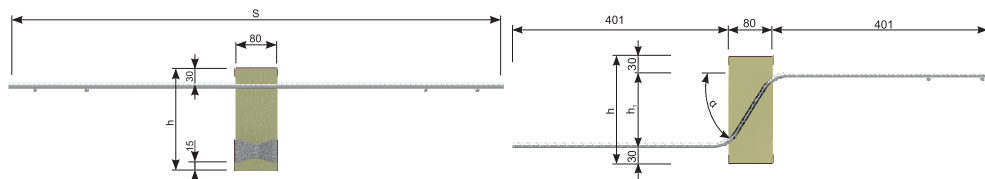


- Standard elements for floor slabs with thickness between 160 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of black steel, hot-dip galvanised carbon steel
- Hoop stick made of stainless steel
- Steel compression bearing made of stainless steel (for ceilings 16 cm) or concrete bearing (ceilings 18 cm and higher)
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 1304 6 × 10 - 2 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of hoop sticks



Connector FB-1300 / concrete grade $\geq C20/25$

Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm V _{Res} (+) [kN]	Insulation 120 mm V _{Res} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress bearing				
FB-1301 2x10-1	160	90	10	2	1	1	6	17	13	820
	180	110	10	2	1	2	7	19	16	820
	200	130	10	2	1	2	9	21	18	820
	220	150	10	2	1	2	10	22	19	820
	240	170	10	2	1	2	11	23	21	820
	260	190	10	2	1	2	13	24	22	820
	280	210	10	2	1	2	14	25	23	820
	300	230	10	2	1	2	16	25	23	820
FB-1302 2x14-2	160	90	14	2	2	2	12	34	27	1050
	180	110	14	2	2	3	14	38	32	1050
	200	130	14	2	2	3	17	42	36	1050
	220	150	14	2	2	3	20	45	39	1050
	240	170	14	2	2	3	22	47	41	1050
	260	190	14	2	2	3	25	48	44	1050
	280	210	14	2	2	3	28	50	45	1050
	300	230	14	2	2	3	30	51	47	1050
FB-1303 4x10-1	160	90	10	4	1	2	12	17	13	820
	180	110	10	4	1	2	15	19	16	820
	200	130	10	4	1	2	17	21	18	820
	220	150	10	4	1	2	20	22	19	820
	240	170	10	4	1	2	23	23	21	820
	260	190	10	4	1	2	26	24	22	820
	280	210	10	4	1	2	28	25	23	820
	300	230	10	4	1	2	31	25	23	820
FB-1303 4x10-2	160	90	10	4	2	2	12	34	27	820
	180	110	10	4	2	2	15	38	32	820
	200	130	10	4	2	2	17	42	36	820
	220	150	10	4	2	2	20	45	39	820
	240	170	10	4	2	2	23	47	41	820
	260	190	10	4	2	2	26	48	44	820
	280	210	10	4	2	2	28	50	45	820
	300	230	10	4	2	2	31	51	47	820

Connector FB-1300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (+) [kN]	Insulation 120 mm V _{res} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1303 4x10-3	160	90	10	4	3	2	12	50	40	820
	180	110	10	4	3	2	15	57	47	820
	200	130	10	4	3	2	17	63	53	820
	220	150	10	4	3	2	20	67	58	820
	240	170	10	4	3	2	23	70	62	820
	260	190	10	4	3	2	26	73	65	820
	280	210	10	4	3	2	28	75	68	820
300	230	10	4	3	2	31	76	70	820	
FB-1304 6x10-1	160	90	10	6	1	3	18	17	13	820
	180	110	10	6	1	3	22	19	16	820
	200	130	10	6	1	3	26	21	18	820
	220	150	10	6	1	3	30	22	19	820
	240	170	10	6	1	3	34	23	21	820
	260	190	10	6	1	3	38	24	22	820
	280	210	10	6	1	3	42	25	23	820
300	230	10	6	1	3	47	25	23	820	
FB-1304 6x10-2	160	90	10	6	2	3	18	34	27	820
	180	110	10	6	2	3	22	38	32	820
	200	130	10	6	2	3	26	42	36	820
	220	150	10	6	2	3	30	45	39	820
	240	170	10	6	2	3	34	47	41	820
	260	190	10	6	2	3	38	48	44	820
	280	210	10	6	2	3	42	50	45	820
300	230	10	6	2	3	47	51	47	820	
FB-1304 6x10-3	160	90	10	6	3	3	18	50	40	820
	180	110	10	6	3	3	22	57	47	820
	200	130	10	6	3	3	26	63	53	820
	220	150	10	6	3	3	30	67	58	820
	240	170	10	6	3	3	34	70	62	820
	260	190	10	6	3	3	38	73	65	820
	280	210	10	6	3	3	42	75	68	820
300	230	10	6	3	3	47	76	70	820	
FB-1304 6x10-4	160	90	10	6	4	3	18	67	54	820
	180	110	10	6	4	3	22	76	63	820
	200	130	10	6	4	3	26	84	71	820
	220	150	10	6	4	3	30	89	78	820
	240	170	10	6	4	3	34	93	83	820
	260	190	10	6	4	3	38	97	87	820
	280	210	10	6	4	3	42	99	91	820
300	230	10	6	4	3	47	101	94	820	
FB-1304 6x10-5	160	90	10	6	5	3	18	84	67	820
	180	110	10	6	5	3	22	96	79	820
	200	130	10	6	5	3	26	105	89	820
	220	150	10	6	5	3	30	111	97	820
	240	170	10	6	5	3	34	117	104	820
	260	190	10	6	5	3	38	121	109	820
	280	210	10	6	5	3	42	124	113	820
300	230	10	6	5	3	47	127	117	820	

Connector FB-1300 / concrete grade $\geq C20/25$										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{red} (-) [kNm]	Insulation 80 mm V _{red} (+) [kN]	Insulation 120 mm V _{red} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1305 4x14-1	160	90	14	4	1	4	23	17	13	1050
	180	110	14	4	1	4	29	19	16	1050
	200	130	14	4	1	4	34	21	18	1050
	220	150	14	4	1	4	39	22	19	1050
	240	170	14	4	1	4	45	23	21	1050
	260	190	14	4	1	4	50	24	22	1050
	280	210	14	4	1	4	55	25	23	1050
300	230	14	4	1	4	61	25	23	1050	
FB-1305 4x14-2	160	90	14	4	2	4	23	34	27	1050
	180	110	14	4	2	4	29	38	32	1050
	200	130	14	4	2	4	34	42	36	1050
	220	150	14	4	2	4	39	45	39	1050
	240	170	14	4	2	4	45	47	41	1050
	260	190	14	4	2	4	50	48	44	1050
	280	210	14	4	2	4	55	50	45	1050
300	230	14	4	2	4	61	51	47	1050	
FB-1305 4x14-3	160	90	14	4	3	4	23	50	40	1050
	180	110	14	4	3	4	29	57	47	1050
	200	130	14	4	3	4	34	63	53	1050
	220	150	14	4	3	4	39	67	58	1050
	240	170	14	4	3	4	45	70	62	1050
	260	190	14	4	3	4	50	73	65	1050
	280	210	14	4	3	4	55	75	68	1050
300	230	14	4	3	4	61	76	70	1050	
FB-1306 5x14-2	160	90	14	5	2	5	29	34	27	1050
	180	110	14	5	2	5	36	38	32	1050
	200	130	14	5	2	5	43	42	36	1050
	220	150	14	5	2	5	49	45	39	1050
	240	170	14	5	2	5	56	47	41	1050
	260	190	14	5	2	5	63	48	44	1050
	280	210	14	5	2	5	69	50	45	1050
300	230	14	5	2	5	76	51	47	1050	
FB-1306 5x14-3	160	90	14	5	3	5	29	50	40	1050
	180	110	14	5	3	5	36	57	47	1050
	200	130	14	5	3	5	43	63	53	1050
	220	150	14	5	3	5	49	67	58	1050
	240	170	14	5	3	5	56	70	62	1050
	260	190	14	5	3	5	63	73	65	1050
	280	210	14	5	3	5	69	75	68	1050
300	230	14	5	3	5	76	76	70	1050	
FB-1306 5x14-4	160	90	14	5	4	5	29	67	54	1050
	180	110	14	5	4	5	36	76	63	1050
	200	130	14	5	4	5	43	84	71	1050
	220	150	14	5	4	5	49	89	78	1050
	240	170	14	5	4	5	56	93	83	1050
	260	190	14	5	4	5	63	97	87	1050
	280	210	14	5	4	5	69	99	91	1050
300	230	14	5	4	5	76	101	94	1050	

Connector FB-1300 / concrete grade \geq C20/25

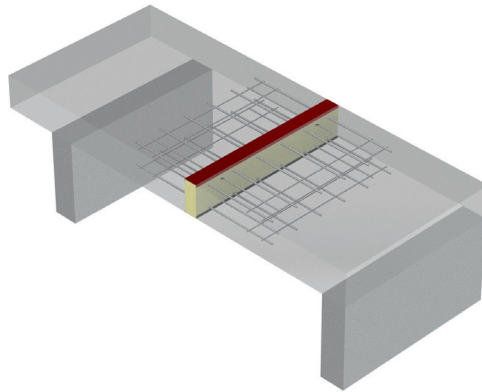
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (+) [kN]	Insulation 120 mm V _{res} (+) [kN]	Dim. [mm] S
				Bars	Hoop sticks	Compress. bearing				
FB-1307 6x14-1	160	90	14	6	1	6	35	17	13	1050
	180	110	14	6	1	6	43	19	16	1050
	200	130	14	6	1	6	51	21	18	1050
	220	150	14	6	1	6	59	22	19	1050
	240	170	14	6	1	6	67	23	21	1050
	260	190	14	6	1	6	75	24	22	1050
	280	210	14	6	1	6	83	25	23	1050
300	230	14	6	1	6	91	25	23	1050	
FB-1307 6x14-2	160	90	14	6	2	6	35	34	27	1050
	180	110	14	6	2	6	43	38	32	1050
	200	130	14	6	2	6	51	42	36	1050
	220	150	14	6	2	6	59	45	39	1050
	240	170	14	6	2	6	67	47	41	1050
	260	190	14	6	2	6	75	48	44	1050
	280	210	14	6	2	6	83	50	45	1050
300	230	14	6	2	6	91	51	47	1050	
FB-1307 6x14-3	160	90	14	6	3	6	35	50	40	1050
	180	110	14	6	3	6	43	57	47	1050
	200	130	14	6	3	6	51	63	53	1050
	220	150	14	6	3	6	59	67	58	1050
	240	170	14	6	3	6	67	70	62	1050
	260	190	14	6	3	6	75	73	65	1050
	280	210	14	6	3	6	83	75	68	1050
300	230	14	6	3	6	91	76	70	1050	
FB-1307 6x14-4	160	90	14	6	4	6	35	67	54	1050
	180	110	14	6	4	6	43	76	63	1050
	200	130	14	6	4	6	51	84	71	1050
	220	150	14	6	4	6	59	89	78	1050
	240	170	14	6	4	6	67	93	83	1050
	260	190	14	6	4	6	75	97	87	1050
	280	210	14	6	4	6	83	99	91	1050
300	230	14	6	4	6	91	101	94	1050	
FB-1307 6x14-5	160	90	14	6	5	6	35	84	67	1050
	180	110	14	6	5	6	43	96	79	1050
	200	130	14	6	5	6	51	105	89	1050
	220	150	14	6	5	6	59	111	97	1050
	240	170	14	6	5	6	67	117	104	1050
	260	190	14	6	5	6	75	121	109	1050
	280	210	14	6	5	6	83	124	113	1050
300	230	14	6	5	6	91	127	117	1050	
FB-1308 8x14-1	160	90	14	8	1	8	47	17	13	1050
	180	110	14	8	1	8	57	19	16	1050
	200	130	14	8	1	8	68	21	18	1050
	220	150	14	8	1	8	79	22	19	1050
	240	170	14	8	1	8	89	23	21	1050
	260	190	14	8	1	8	100	24	22	1050
	280	210	14	8	1	8	111	25	23	1050
300	230	14	8	1	8	122	25	23	1050	

Connector FB-1300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{Res} (-) [kNm]	Insulation 80 mm V _{Res} (+) [kN]	Insulation 120 mm V _{Res} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1308 8x14-2	160	90	14	8	2	8	47	34	27	1050
	180	110	14	8	2	8	57	38	32	1050
	200	130	14	8	2	8	68	42	36	1050
	220	150	14	8	2	8	79	45	39	1050
	240	170	14	8	2	8	89	47	41	1050
	260	190	14	8	2	8	100	48	44	1050
	280	210	14	8	2	8	111	50	45	1050
	300	230	14	8	2	8	122	51	47	1050
FB-1308 8x14-3	160	90	14	8	3	8	47	50	40	1050
	180	110	14	8	3	8	57	57	47	1050
	200	130	14	8	3	8	68	63	53	1050
	220	150	14	8	3	8	79	67	58	1050
	240	170	14	8	3	8	89	70	62	1050
	260	190	14	8	3	8	100	73	65	1050
	280	210	14	8	3	8	111	75	68	1050
	300	230	14	8	3	8	122	76	70	1050
FB-1308 8x14-4	160	90	14	8	4	8	47	67	54	1050
	180	110	14	8	4	8	57	76	63	1050
	200	130	14	8	4	8	68	84	71	1050
	220	150	14	8	4	8	79	89	78	1050
	240	170	14	8	4	8	89	93	83	1050
	260	190	14	8	4	8	100	97	87	1050
	280	210	14	8	4	8	111	99	91	1050
	300	230	14	8	4	8	122	101	94	1050
FB-1308 8x14-5	160	90	14	8	5	8	47	84	67	1050
	180	110	14	8	5	8	57	96	79	1050
	200	130	14	8	5	8	68	105	89	1050
	220	150	14	8	5	8	79	111	97	1050
	240	170	14	8	5	8	89	117	104	1050
	260	190	14	8	5	8	100	121	109	1050
	280	210	14	8	5	8	111	124	113	1050
	300	230	14	8	5	8	122	127	117	1050
FB-1308 8x14-6	160	90	14	8	6	8	47	101	80	1050
	180	110	14	8	6	8	57	115	95	1050
	200	130	14	8	6	8	68	126	106	1050
	220	150	14	8	6	8	79	133	116	1050
	240	170	14	8	6	8	89	140	125	1050
	260	190	14	8	6	8	100	145	131	1050
	280	210	14	8	6	8	111	148	135	1050
	300	230	14	8	6	8	122	152	140	1050
FB-1308 8x14-7	160	90	14	8	7	8	47	118	93	1050
	180	110	14	8	7	8	57	134	111	1050
	200	130	14	8	7	8	68	147	123	1050
	220	150	14	8	7	8	79	155	135	1050
	240	170	14	8	7	8	89	163	146	1050
	260	190	14	8	7	8	100	169	153	1050
	280	210	14	8	7	8	111	172	157	1050
	300	230	14	8	7	8	122	177	163	1050

Connector FB-1300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{res} (-) [kNm]	Insulation 80 mm V _{res} (+) [kN]	Insulation 120 mm V _{res} (+) [kN]	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing				
FB-1309 10x14-1	160	90	14	10	1	10	58	17	13	1050
	180	110	14	10	1	10	72	19	16	1050
	200	130	14	10	1	10	85	21	18	1050
	220	150	14	10	1	10	98	22	19	1050
	240	170	14	10	1	10	112	23	21	1050
	260	190	14	10	1	10	125	24	22	1050
	280	210	14	10	1	10	139	25	23	1050
300	230	14	10	1	10	152	25	23	1050	
FB-1309 10x14-2	160	90	14	10	2	10	58	34	27	1050
	180	110	14	10	2	10	72	38	32	1050
	200	130	14	10	2	10	85	42	36	1050
	220	150	14	10	2	10	98	45	39	1050
	240	170	14	10	2	10	112	47	41	1050
	260	190	14	10	2	10	125	48	44	1050
	280	210	14	10	2	10	139	50	45	1050
300	230	14	10	2	10	152	51	47	1050	
FB-1309 10x14-3	160	90	14	10	3	10	58	50	40	1050
	180	110	14	10	3	10	72	57	47	1050
	200	130	14	10	3	10	85	63	53	1050
	220	150	14	10	3	10	98	67	58	1050
	240	170	14	10	3	10	112	70	62	1050
	260	190	14	10	3	10	125	73	65	1050
	280	210	14	10	3	10	139	75	68	1050
300	230	14	10	3	10	152	76	70	1050	
FB-1309 10x14-4	160	90	14	10	4	10	58	67	54	1050
	180	110	14	10	4	10	72	76	63	1050
	200	130	14	10	4	10	85	84	71	1050
	220	150	14	10	4	10	98	89	78	1050
	240	170	14	10	4	10	112	93	83	1050
	260	190	14	10	4	10	125	97	87	1050
	280	210	14	10	4	10	139	99	91	1050
300	230	14	10	4	10	152	101	94	1050	
FB-1309 10x14-5	160	90	14	10	5	10	58	84	67	1050
	180	110	14	10	5	10	72	96	79	1050
	200	130	14	10	5	10	85	105	89	1050
	220	150	14	10	5	10	98	111	97	1050
	240	170	14	10	5	10	112	117	104	1050
	260	190	14	10	5	10	125	121	109	1050
	280	210	14	10	5	10	139	124	113	1050
300	230	14	10	5	10	152	127	117	1050	
FB-1309 10x14-6	160	90	14	10	6	10	58	101	80	1050
	180	110	14	10	6	10	72	115	95	1050
	200	130	14	10	6	10	85	126	106	1050
	220	150	14	10	6	10	98	133	116	1050
	240	170	14	10	6	10	112	140	125	1050
	260	190	14	10	6	10	125	145	131	1050
	280	210	14	10	6	10	139	148	135	1050
300	230	14	10	6	10	152	152	140	1050	

Connector FB-1300 / concrete grade \geq C20/25										
Symbol	h [mm]	h ₁ [mm]	Bar diameter \varnothing [mm]	Quantity			M _{red} (-) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Hoop sticks	Compress. bearing		80 mm	120 mm	
							V _{red} (+) [kN]	V _{red} (+) [kN]	S	
FB-1309 10x14-7	160	90	14	10	7	10	58	118	93	1050
	180	110	14	10	7	10	72	134	111	1050
	200	130	14	10	7	10	85	147	123	1050
	220	150	14	10	7	10	98	155	135	1050
	240	170	14	10	7	10	112	163	146	1050
	260	190	14	10	7	10	125	169	153	1050
	280	210	14	10	7	10	139	172	157	1050
300	230	14	10	7	10	152	177	163	1050	

Connector FB-1400 for continuous connection of balcony slab with floor

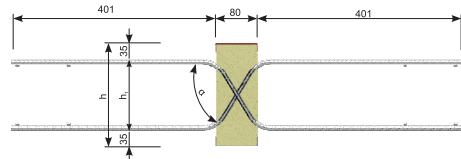
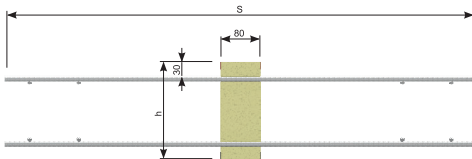


- Standard elements for floor slabs with thickness between 160 and 300 mm
- Standard thickness of insulation: 80 or 120 mm
- Type of insulation: mineral wool (WM) or styrofoam (XPS)
- Rebars made of black steel, hot-dip galvanised carbon steel
- Hoop stick made of stainless steel
- Additional reinforcement of balcony slab and floor slab - pages: 91-92

Example of marking:

FB - 1404 6 × 10 - 2 h=200 mm, XPS80, L=1000 mm

Type of connector Quantity of bars Bar diameter Quantity of hoop sticks



Connector FB-1400 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter ∅ [mm]	Quantity		M _{res} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Hoop sticks		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S
FB-1401 2x10-1	160	90	10	2	1+1	5	17	13	820
	180	110	10	2	1+1	7	19	16	820
	200	130	10	2	1+1	8	21	18	820
	220	150	10	2	1+1	10	22	19	820
	240	170	10	2	1+1	11	23	21	820
	260	190	10	2	1+1	12	24	22	820
	280	210	10	2	1+1	14	25	23	820
300	230	10	2	1+1	15	25	23	820	
FB-1402 2x14-2	160	90	14	2	2+2	10	34	27	1050
	180	110	14	2	2+2	13	38	32	1050
	200	130	14	2	2+2	16	42	36	1050
	220	150	14	2	2+2	18	45	39	1050
	240	170	14	2	2+2	21	47	41	1050
	260	190	14	2	2+2	24	48	44	1050
	280	210	14	2	2+2	26	50	45	1050
300	230	14	2	2+2	29	51	47	1050	
FB-1403 4x10-1	160	90	10	4	1+1	11	15	12	820
	180	110	10	4	1+1	14	17	14	820
	200	130	10	4	1+1	16	19	16	820
	220	150	10	4	1+1	19	21	18	820
	240	170	10	4	1+1	22	22	19	820
	260	190	10	4	1+1	25	23	21	820
	280	210	10	4	1+1	27	24	22	820
300	230	10	4	1+1	30	24	22	820	
FB-1403 4x10-2	160	90	10	4	2+2	11	30	24	820
	180	110	10	4	2+2	14	35	29	820
	200	130	10	4	2+2	16	39	33	820
	220	150	10	4	2+2	19	42	36	820
	240	170	10	4	2+2	22	44	39	820
	260	190	10	4	2+2	25	46	41	820
	280	210	10	4	2+2	27	48	43	820
300	230	10	4	2+2	30	49	45	820	
FB-1403 4x10-3	160	90	10	4	3+3	11	45	37	820
	180	110	10	4	3+3	14	52	43	820
	200	130	10	4	3+3	16	58	49	820
	220	150	10	4	3+3	19	62	54	820
	240	170	10	4	3+3	22	66	58	820
	260	190	10	4	3+3	25	69	62	820
	280	210	10	4	3+3	27	71	65	820
300	230	10	4	3+3	30	73	67	820	
FB-1404 6x10-1	160	90	10	6	1+1	16	15	12	820
	180	110	10	6	1+1	20	17	14	820
	200	130	10	6	1+1	25	19	16	820
	220	150	10	6	1+1	29	21	18	820
	240	170	10	6	1+1	33	22	19	820
	260	190	10	6	1+1	37	23	21	820
	280	210	10	6	1+1	41	24	22	820
300	230	10	6	1+1	45	24	22	820	

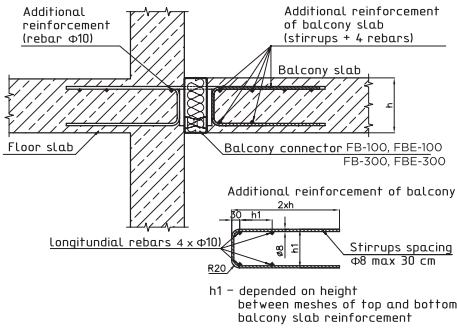
Connector FB-1400 / concrete grade \geq C20/25									
Symbol	h [mm]	h _i [mm]	Bar diameter \varnothing [mm]	Quantity		M _{req} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Hoop sticks		80 mm	120 mm	
							V _{req} (±) [kN]	V _{req} (±) [kN]	S
FB-1404 6x10-2	160	90	10	6	2+2	16	30	24	820
	180	110	10	6	2+2	20	35	29	820
	200	130	10	6	2+2	25	39	33	820
	220	150	10	6	2+2	29	42	36	820
	240	170	10	6	2+2	33	44	39	820
	260	190	10	6	2+2	37	46	41	820
	280	210	10	6	2+2	41	48	43	820
	300	230	10	6	2+2	45	49	45	820
FB-1404 6x10-3	160	90	10	6	3+3	16	45	37	820
	180	110	10	6	3+3	20	52	43	820
	200	130	10	6	3+3	25	58	49	820
	220	150	10	6	3+3	29	62	54	820
	240	170	10	6	3+3	33	66	58	820
	260	190	10	6	3+3	37	69	62	820
	280	210	10	6	3+3	41	71	65	820
	300	230	10	6	3+3	45	73	67	820
FB-1405 4x14-1	160	90	14	4	1+1	20	15	12	1050
	180	110	14	4	1+1	26	17	14	1050
	200	130	14	4	1+1	31	19	16	1050
	220	150	14	4	1+1	36	21	18	1050
	240	170	14	4	1+1	42	22	19	1050
	260	190	14	4	1+1	47	23	21	1050
	280	210	14	4	1+1	53	24	22	1050
	300	230	14	4	1+1	58	24	22	1050
FB-1405 4x14-2	160	90	14	4	2+2	20	30	24	1050
	180	110	14	4	2+2	26	35	29	1050
	200	130	14	4	2+2	31	39	33	1050
	220	150	14	4	2+2	36	42	36	1050
	240	170	14	4	2+2	42	44	39	1050
	260	190	14	4	2+2	47	46	41	1050
	280	210	14	4	2+2	53	48	43	1050
	300	230	14	4	2+2	58	49	45	1050
FB-1405 4x14-3	160	90	14	4	3+3	20	45	37	1050
	180	110	14	4	3+3	26	52	43	1050
	200	130	14	4	3+3	31	58	49	1050
	220	150	14	4	3+3	36	62	54	1050
	240	170	14	4	3+3	42	66	58	1050
	260	190	14	4	3+3	47	69	62	1050
	280	210	14	4	3+3	53	71	65	1050
	300	230	14	4	3+3	58	73	67	1050
FB-1406 5x14-2	160	90	14	5	2+2	25	30	24	1050
	180	110	14	5	2+2	32	35	29	1050
	200	130	14	5	2+2	39	39	33	1050
	220	150	14	5	2+2	46	42	36	1050
	240	170	14	5	2+2	52	44	39	1050
	260	190	14	5	2+2	59	46	41	1050
	280	210	14	5	2+2	66	48	43	1050
	300	230	14	5	2+2	72	49	45	1050

Connector FB-1400 / concrete grade \geq C20/25									
Symbol	h [mm]	h ₁ [mm]	Bar diameter ∅ [mm]	Quantity		M _{res} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Hoop sticks		80 mm	120 mm	
							V _{res} (±) [kN]	V _{res} (±) [kN]	S
FB-1406 5x14-3	160	90	14	5	3+3	25	45	37	1050
	180	110	14	5	3+3	32	52	43	1050
	200	130	14	5	3+3	39	58	49	1050
	220	150	14	5	3+3	46	62	54	1050
	240	170	14	5	3+3	52	66	58	1050
	260	190	14	5	3+3	59	69	62	1050
	280	210	14	5	3+3	66	71	65	1050
300	230	14	5	3+3	72	73	67	1050	
FB-1406 5x14-4	160	90	14	5	4+4	25	60	49	1050
	180	110	14	5	4+4	32	69	58	1050
	200	130	14	5	4+4	39	77	66	1050
	220	150	14	5	4+4	46	83	72	1050
	240	170	14	5	4+4	52	88	78	1050
	260	190	14	5	4+4	59	92	83	1050
	280	210	14	5	4+4	66	95	86	1050
300	230	14	5	4+4	72	98	90	1050	
FB-1407 6x14-2	160	90	14	6	2+2	31	30	24	1050
	180	110	14	6	2+2	39	35	29	1050
	200	130	14	6	2+2	47	39	33	1050
	220	150	14	6	2+2	55	42	36	1050
	240	170	14	6	2+2	63	44	39	1050
	260	190	14	6	2+2	71	46	41	1050
	280	210	14	6	2+2	79	48	43	1050
300	230	14	6	2+2	87	49	45	1050	
FB-1407 6x14-3	160	90	14	6	3+3	31	45	37	1050
	180	110	14	6	3+3	39	52	43	1050
	200	130	14	6	3+3	47	58	49	1050
	220	150	14	6	3+3	55	62	54	1050
	240	170	14	6	3+3	63	66	58	1050
	260	190	14	6	3+3	71	69	62	1050
	280	210	14	6	3+3	79	71	65	1050
300	230	14	6	3+3	87	73	67	1050	
FB-1407 6x14-4	160	90	14	6	4+4	31	60	49	1050
	180	110	14	6	4+4	39	69	58	1050
	200	130	14	6	4+4	47	77	66	1050
	220	150	14	6	4+4	55	83	72	1050
	240	170	14	6	4+4	63	88	78	1050
	260	190	14	6	4+4	71	92	83	1050
	280	210	14	6	4+4	79	95	86	1050
300	230	14	6	4+4	87	98	90	1050	
FB-1408 8x14-2	160	90	14	8	2+2	41	30	24	1050
	180	110	14	8	2+2	51	35	29	1050
	200	130	14	8	2+2	62	39	33	1050
	220	150	14	8	2+2	73	42	36	1050
	240	170	14	8	2+2	84	44	39	1050
	260	190	14	8	2+2	94	46	41	1050
	280	210	14	8	2+2	105	48	43	1050
300	230	14	8	2+2	116	49	45	1050	

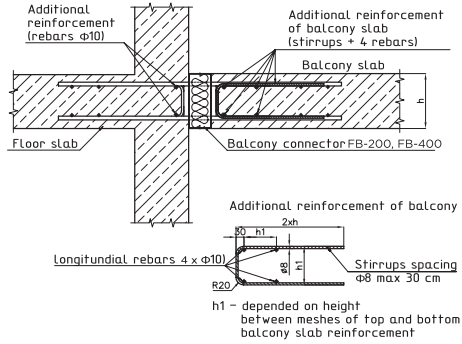
Connector FB-1400 / concrete grade \geq C20/25									
Symbol	h [mm]	h _i [mm]	Bar diameter \varnothing [mm]	Quantity		M _{req} (±) [kNm]	Insulation	Insulation	Dim. [mm]
				Bars	Hoop sticks		80 mm	120 mm	
							V _{req} (±) [kN]	V _{req} (±) [kN]	S
FB-1408 8x14-3	160	90	14	8	3+3	41	45	37	1050
	180	110	14	8	3+3	51	52	43	1050
	200	130	14	8	3+3	62	58	49	1050
	220	150	14	8	3+3	73	62	54	1050
	240	170	14	8	3+3	84	66	58	1050
	260	190	14	8	3+3	94	69	62	1050
	280	210	14	8	3+3	105	71	65	1050
	300	230	14	8	3+3	116	73	67	1050
FB-1408 8x14-4	160	90	14	8	4+4	41	60	49	1050
	180	110	14	8	4+4	51	69	58	1050
	200	130	14	8	4+4	62	77	66	1050
	220	150	14	8	4+4	73	83	72	1050
	240	170	14	8	4+4	84	88	78	1050
	260	190	14	8	4+4	94	92	83	1050
	280	210	14	8	4+4	105	95	86	1050
	300	230	14	8	4+4	116	98	90	1050
FB-1409 10x14-3	160	90	14	10	3+3	51	45	37	1050
	180	110	14	10	3+3	64	52	43	1050
	200	130	14	10	3+3	78	58	49	1050
	220	150	14	10	3+3	91	62	54	1050
	240	170	14	10	3+3	105	66	58	1050
	260	190	14	10	3+3	118	69	62	1050
	280	210	14	10	3+3	131	71	65	1050
	300	230	14	10	3+3	145	73	67	1050
FB-1409 10x14-4	160	90	14	10	4+4	51	60	49	1050
	180	110	14	10	4+4	64	69	58	1050
	200	130	14	10	4+4	78	77	66	1050
	220	150	14	10	4+4	91	83	72	1050
	240	170	14	10	4+4	105	88	78	1050
	260	190	14	10	4+4	118	92	83	1050
	280	210	14	10	4+4	131	95	86	1050
	300	230	14	10	4+4	145	98	90	1050
FB-1409 10x14-5	160	90	14	10	5+5	51	75	61	1050
	180	110	14	10	5+5	64	87	72	1050
	200	130	14	10	5+5	78	96	82	1050
	220	150	14	10	5+5	91	104	90	1050
	240	170	14	10	5+5	105	110	97	1050
	260	190	14	10	5+5	118	115	103	1050
	280	210	14	10	5+5	131	119	108	1050
	300	230	14	10	5+5	145	122	112	1050

Additional reinforcement of balcony slab

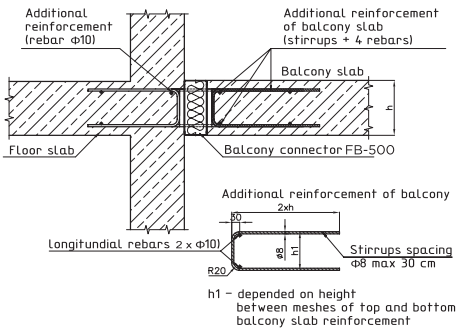
FB-100, FBE-100
FB-300, FBE-300



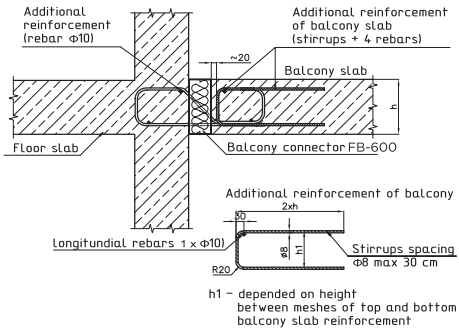
FB-200, FB-400



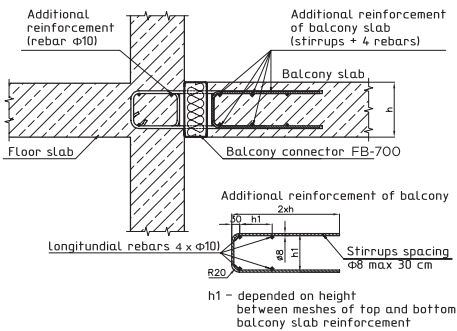
FB-500



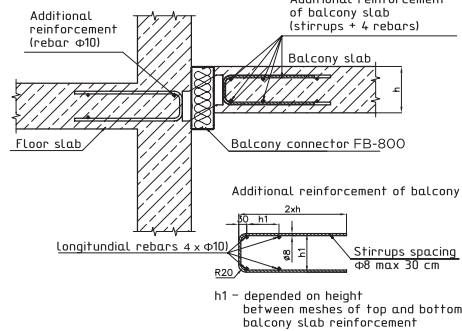
FB-600



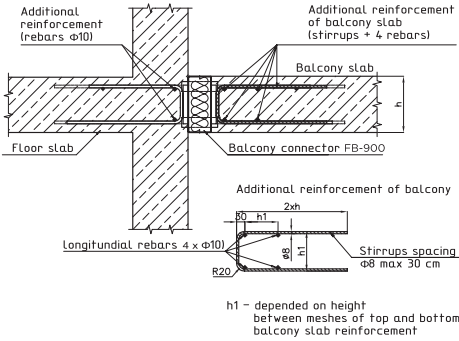
FB-700



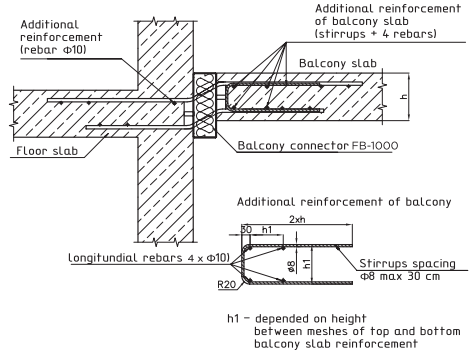
FB-800



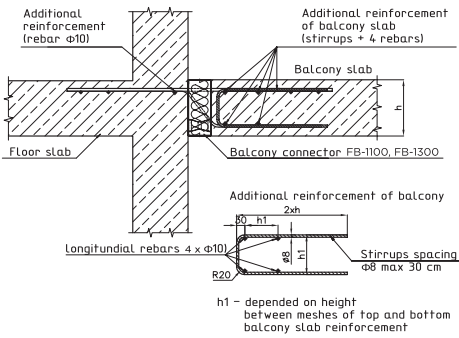
FB-900



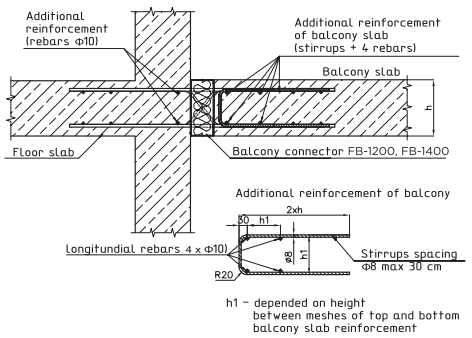
FB-1000

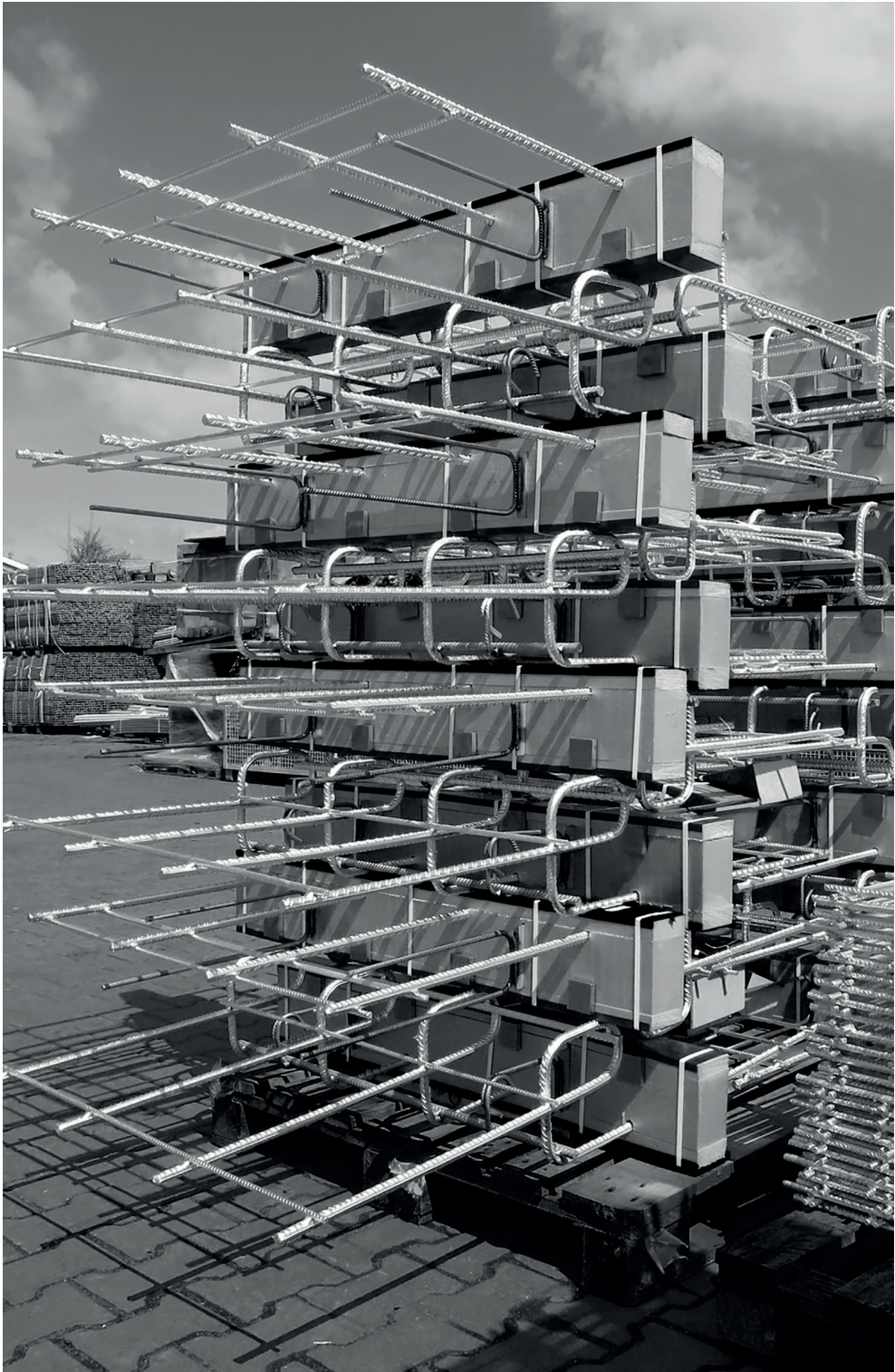


FB-1100, FB-1300



FB-1200, FB-1400

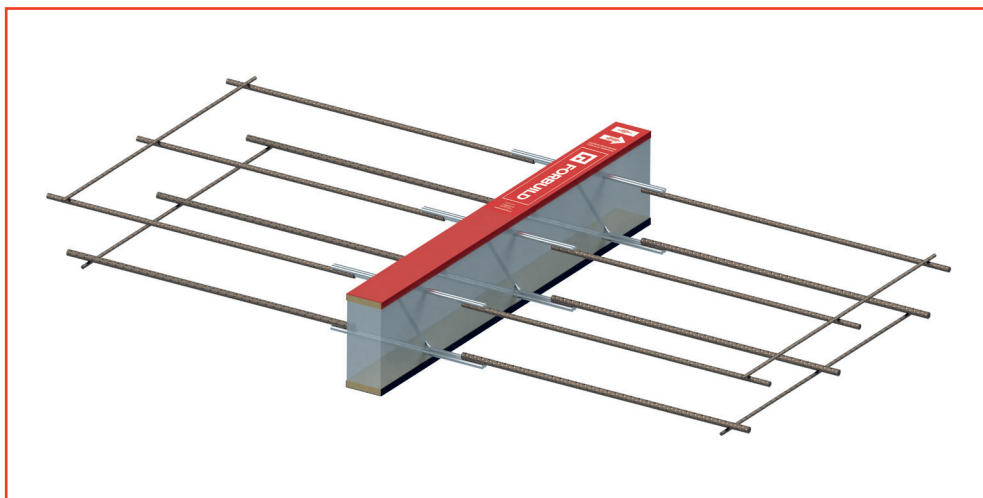




Balcony connectors KB

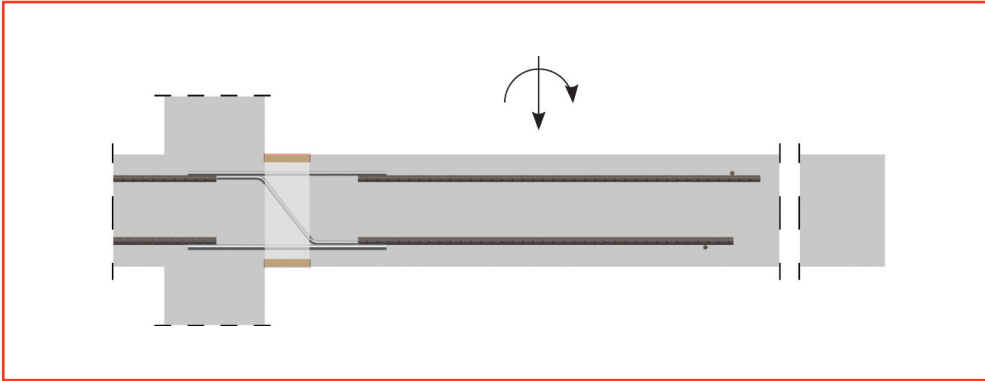
The newest product of Forbuild company. Easy end reliable solution which reduces thermal bridges between external reinforced concrete elements (e. g. balcony) and floor slabs or walls.

General information



Construction of balcony connector KB – general view

- Balcony connector KB consists of reinforcing sets and plastic case which is filled up by insulating material. Main function of insulating material is decreasing phenomenon of thermal bridge.
- Capacity of balcony connectors depends on quantity of reinforcing sets which are inside insulating bricks. One reinforcing set consists of rebars transferring elongating forces, transverse rebars transferring shear forces and bars transferring compression forces.



Cross-section of balcony connector KB

Reinforcing connector KB	European Technical Assessment
Element:	Material:
- reinforcing set (reinforcement transferring elongating, shear, and compression forces)	Welded bars made of stainless steel (type Duplex) and black carbon steel (B500B).
- insulating material	Styrofoam with thermal conductivity coefficient $\lambda \leq 0,036 \text{ W/m}\cdot\text{K}$, or mineral wool with thermal conductivity coefficient $\lambda \leq 0,040 \text{ W/m}\cdot\text{K}$. Standard width of insulation - 80mm, optional - 120mm.
- casing	PVC.

Standard elements for floor slabs with thickness between 140 and 300 mm
 Additional reinforcement at construction site in balcony slab is not necessary.

Construction equipment

Use of specialistic equipment is way to accelerate construction works and significant savings for contractor. Forbuild company have in offer incl. containers for people transportation allowing executing some works on height, wide range of containers, pallets for transportation and storage, unloading platforms and containers for concrete.

Container for concrete - type A

Symbol	Capacity [m ³]	Container weight* [kg]	Weight with max. load* [kg]	Sale unit	Article no.
Typ A 0,75 m ³	0,75	260	2135	pcs	SB-TW-PB-0-05237
Typ A 1,00 m ³	1,00	276	2776	pcs	SB-TW-PB-0-05236
Typ A 1,50 m ³	1,50	410	4160	pcs	SB-TW-PB-0-05913
Typ A 2,00 m ³	2,00	426	5426	pcs	SB-TW-PB-0-05238

* Weight without chain sling



Container for concrete - type A/L

with chain

It has mechanism for container operation from lower level using chain (up to height around 4m).

Symbol	Capacity [m ³]	Container weight* [kg]	Weight with max. load* [kg]	Sale unit	Article no.
Typ A/L 0,75 m ³	0,75	260	2310	pcs	SB-TW-PB-0-05974
Typ A/L 1,00 m ³	1,00	276	2976	pcs	SB-TW-PB-0-05628
Typ A/L 1,50 m ³	1,50	410	4160	pcs	SB-TW-PB-0-05579
Typ A/L 2,00 m ³	2,00	426	5426	pcs	SB-TW-PB-0-20799

*Weight without chain sling





Container for concrete - type B with working platform

Symbol	Capacity [m ³]	Container weight* [kg]	Weight with max. load* [kg]	Sale unit	Article no.
Typ B 0,75 m ³	0,75	514	2400	pcs	SB-TW-PB-0-05347
Typ B 1,00 m ³	1,00	528	3275	pcs	SB-TW-PB-0-01863
Typ B 1,50 m ³	1,50	670	5070	pcs	SB-TW-PB-0-05975

*Weight without chain sling



Container for concrete - type C

Symbol	Capacity [m ³]	Container weight* [kg]	Weight with max. load* [kg]	Sale unit	Article no.
Typ C 0,75 m ³	0,75	255	2130	pcs	SB-TW-PB-0-05926
Typ C 1,00 m ³	1,00	273	2773	pcs	SB-TW-PB-0-01864

*Weight without chain sling

Additional accessories for containers for concrete

CHAIN SLINGS

Symbol	Container capacity	Type of container	Article no.
Chain sling 2ZŁ 7,5/5,3 t 1,2m	0,75 m ³ , 1,00 m ³	B	SB-AS-00-0-04642
Chain sling 2ZŁ 11,2/8,0 t 1,2m	1,50 m ³	B	SB-AS-00-0-04641
Chain sling 3ZŁ 4,25/3,0 t 1,2m	0,75 m ³ , 1,00 m ³	A, A/L, C	SB-AS-00-0-04643
Chain sling 3ZŁ 6,7/4,75 t 1,2m	1,50 m ³	A, A/L	SB-AS-00-0-04644
Chain sling 3ZŁ 8,0/6,0 t 1,5m	2,00 m ³	A, A/L	SB-AS-00-0-05235

SLEEVES AND CLAMPS

Symbol	Material	Unit	Article no.
Sleeve clamping ring for container D=200 mm	Stainless steel	pcs	SB-TW-PB-0-01866
Sleeve container D=200 mm	Reinforced PVC	mb	SB-TW-PB-0-01867

Mortar tub

Symbol	Capacity [l]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Mortar tub 200l	200	17	417	pcs	SB-TW-PB-0-01869



Container for soil & powdery materials - type A

Symbol	Capacity [m³]	Container weight* [kg]	Weight with max. load* [kg]	Sale unit	Article no.
Type A 1,00 m³	1,00	160	1900	pcs	SB-TW-MS-0-01862

*Weight without chain sling



Container for hardcore - type B

Symbol	Capacity [m³]	Container weight* [kg]	Weight with max. load* [kg]	Sale unit	Article no.
Type B 1,00 m³	1,00	181	2000	pcs	SB-TW-MS-0-01861
Type B 1,50 m³	1,50	240	2970	pcs	SB-TW-MS-0-01860

*Weight without chain sling



Capsizable container- type C

Symbol	Capacity [m³]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Type C 1,00 m³	1,00	376	2200	pcs	SB-TW-MS-0-01865

*Weight without chain sling



Transportation basket KT02

for people transportation

Symbol	Capacity** [kg]	Container weight* [kg]	Weight with max. load* [kg]	Sale unit	Article no.
Transportation basket KT02	300	280	580	pcs	SB-TW-KT-0-01881

* Weight without chain sling

** Max. 2 persons + accessories



Symbol	Type of container	Article no.
Chain sling 4ZŁ 0,6 t 1,6m	KT02	SB-AS-00-0-20851



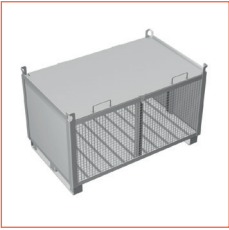
Transportation container - type A

Symbol	Base dimensions [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Type A	1,2x0,8	0,8	69,2	1200	pcs	SB-TW-MT-0-05979



Transportation container - type B

Symbol	Base dimensions [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Type B	1,2x0,8	0,8	87,9	1200	pcs	SB-TW-MT-0-05981



Transportation container - type C

Symbol	Base dimensions [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Type C	1,2x0,8	0,8	101,7	1200	pcs	SB-TW-MT-0-05982



Transportation container - type E

Symbol	Base dimensions [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Type E	1,25x1,2	1,2	86,3	600	pcs	SB-TW-MT-0-05810



Transportation container - type F

Symbol	Base dimensions [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Type F	1,2x1,1	1,15	105	606	pcs	SB-TW-MT-0-05811

Full universal container

Symbol	Base dimensions [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Full universal container	1,2x0,8	0,62	76	1100	pcs	SB-TW-MT-0-05984



Pallet for props

Symbol	Base dimension [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Pallet for props 120	1,15x0,75	0,765	35	1500	pcs	SB-TW-MT-0-07001



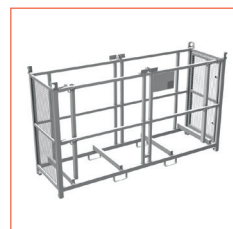
Transportation container

Symbol	Base dimension [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Transportation container	1,3x0,8	0,8	71,6	1200	pcs	BH-SX-00-0-00899

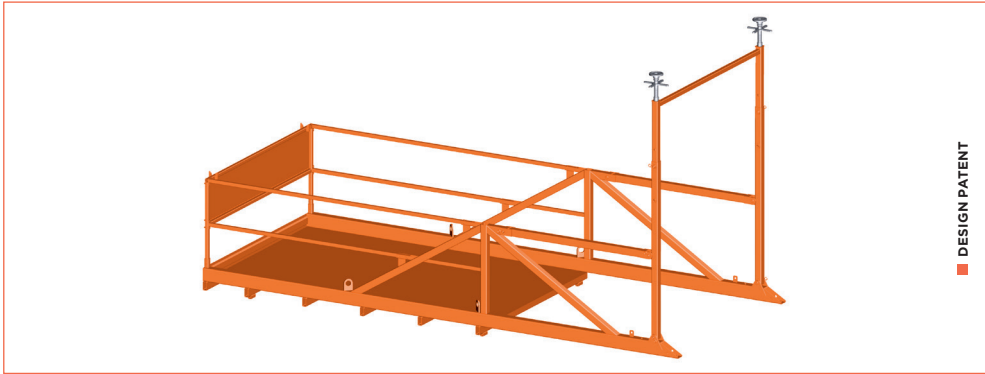


Transportation container for planks and meshes

Symbol	Base dimension [m]	Height [m]	Container weight [kg]	Weight with max. load [kg]	Sale unit	Article no.
Transportation container for planks and meshes	2,69x0,84	1,505	181	1200	pcs	BH-SX-00-0-00901

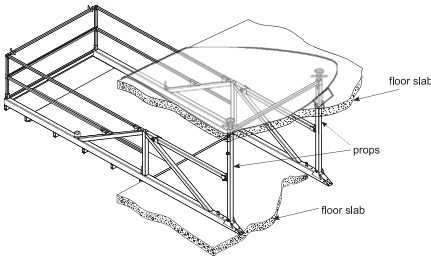


Unloading platform 2200

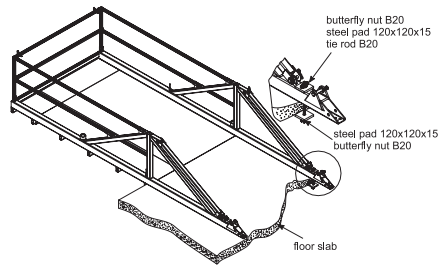


DESIGN PATENT

Unloading platform
Construction equipment



Installation between floor slabs



Installation on the floor slab

Symbol	Capacity [kg]	Platform weight [kg]	Distance between floor slabs [m]	Length of support on floor slab	Total length [m]	Total width [m]	Dimension for transportation [m]	Sale unit	Article no.
Unloading platform 2200	2200	1225	2,5-4,0	2,5	6,0	2,38	6,65 x 2,45 x 1,33	pcs	SB-TW-PR-0-01882

ADDITIONAL EQUIPMENT

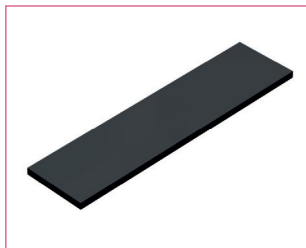
Name	Unit	Weight [kg/unit]	Article no.
Buterfly nut B20	pcs	0,41	AS-DK-SC-1-00080
Steel pad 120x120x15mm 1xØ25mm (black steel)	pcs	1,69	SB-TW-PR-4-20894
Steel pad 120x120x15 mm 1xØ25mm (electro galvanizing)	pcs	1,73	SB-TW-PR-4-20895
Tie rod B20	mb	2,60	AS-DK-SC-1-00760

Elastomer bearings and sliding foils

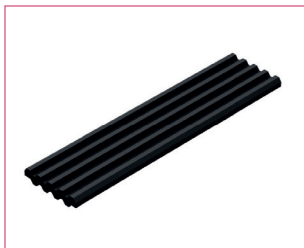
It is used for stresses balance, ensuring free rotation of concrete elements on bracket and decreasing horizontal forces caused by concrete shrinkage, temperature influence or structure deformation. Our offer includes point bearings, line bearings, reinforced bearings or non reinforced bearings.

National Technical Approval ITB no. AT-15-7634/2016

Types of elastomer bearings



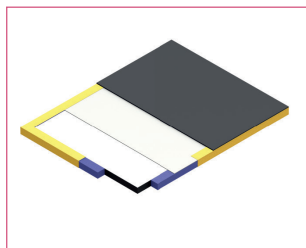
Non reinforced bearings N15, N20



Sound dampening bearings SD



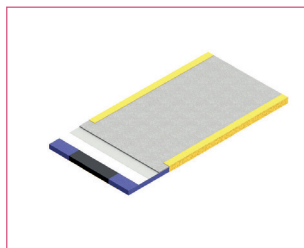
Reinforced bearings B(1)



Non reinforced bearing NEG



Reinforced bearings B1EG, B1EG-25/30

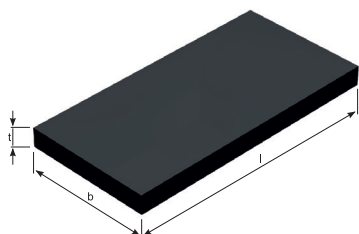
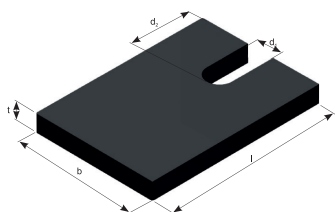
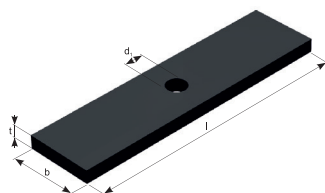
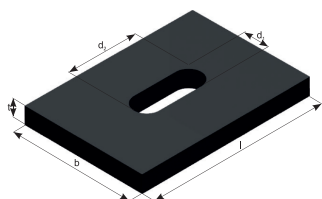
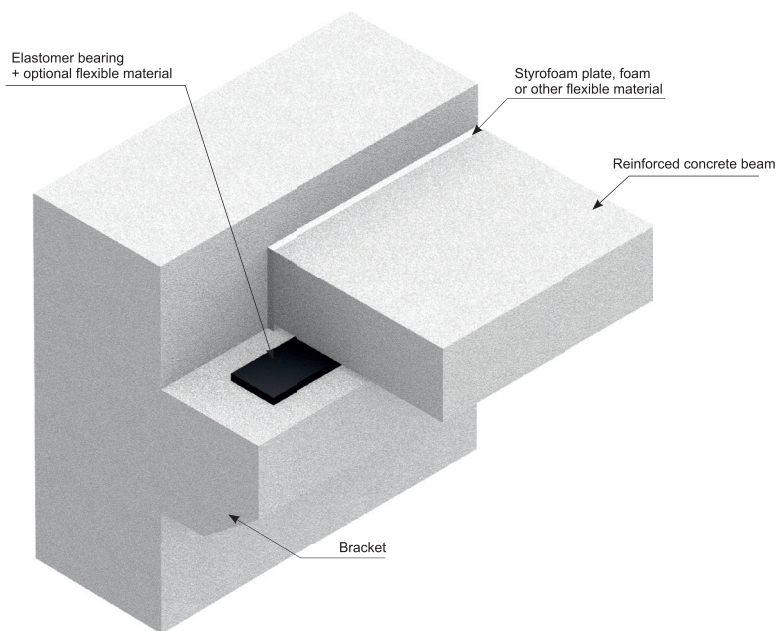


Non reinforced bearings TDG 27 SZ

Elastomer bearings (type N15, N20, N3, R5, NEG, B1EG and B1EG/25-30) are produced in square, rectangular and round shape plates with holes (round, oval, open) or without holes. Maximum dimensions of N15, N20 bearings are 1000 x 1400mm with possibility to cut.

TD 21 S and TDG 27 SZ bearings are produced in rectangular plate shapes.
SD bearings are produced in profiled stripes.

Non reinforced elastomer bearings type N15, N20, N3 and R5



Dimensions marking:

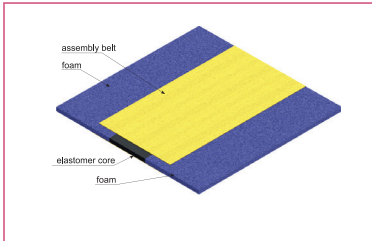
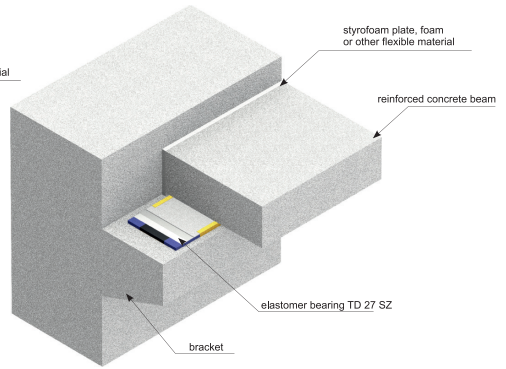
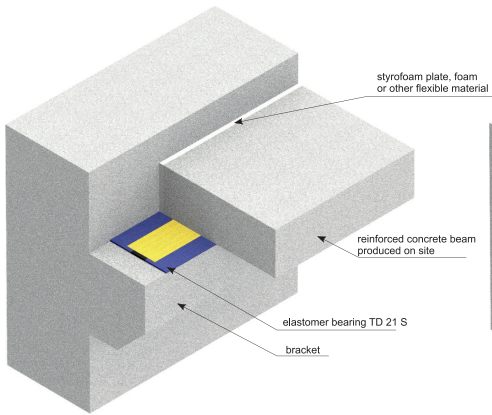
- t** - bearing thickness [mm]
- b** - bearing width [mm]
- l** - bearing length [mm]
- d** - hole diameter [mm]
- D** - bearing diameter [mm]
- d** - hole length [mm]

Order specification

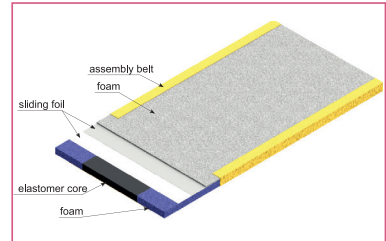
t x b x l [mm]

- t** - bearing thickness [mm]
- b** - bearing width [mm]
- l** - bearing length [mm]

Non reinforced elastomer bearings with elastomer core type TD 21 S and TDG 27 SZ

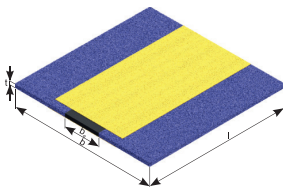


Type TD 21 S

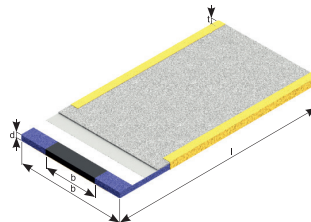


Type TDG 27 SZ

Order specification:



$t \times b_E / b$ [mm]



$d \times b_E / b$ [mm]

Dimensions marking:

- t** - bearing thickness [mm]
- b_E** - elastomer core width [mm]
- b** - bearing width [mm]
- l** - bearing length [mm]
- d** - elastomer core thickness [mm]

Dimensions of non reinforced elastomer bearing type **TD 21 S** - linear

Bearing thickness t [mm]	Elastomer core width b _E [mm]	Bearing width b [mm]	Rotation angle [%]	Average tension [N/mm ²]	Permitted load F [kN/m]	Horizontal movement [mm]
5	25	115	40	8	200	± 2,1
		150				
		175				
		200				
		240				
		300				
5	50	115	20	15	750	± 2,1
		150				
		175				
		200				
		240				
		300				
10	50	115	40	8	400	± 5,6
		150				
		175				
		200				
		240				
		300				
365						

Standard length of elastomer bearing is 1 m

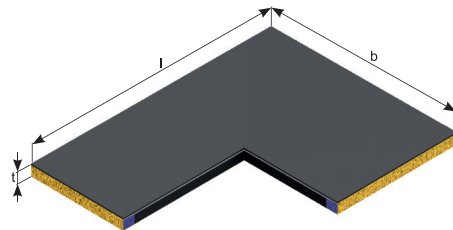
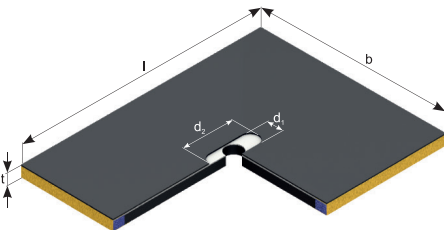
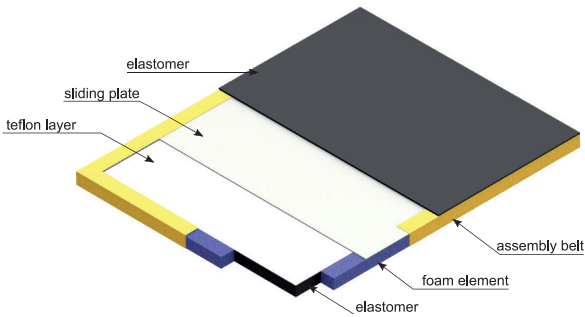
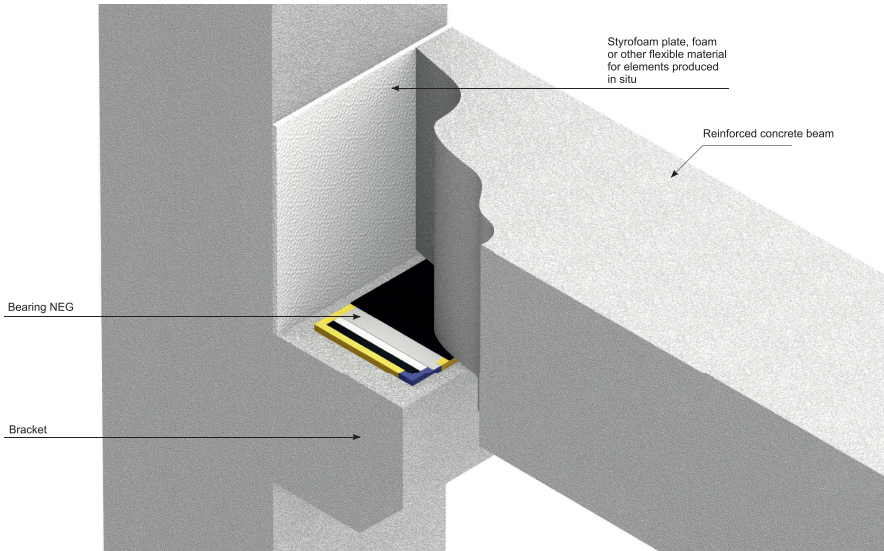
Dimensions of non reinforced sliding elastomer bearing type **TDG 27 SZ** - linear

Elastomer core thickness d [mm]	Elastomer core width b _E [mm]	Bearing width b [mm]	Bearing thickness t [mm]	Rotation angle [%]	Average tension [N/mm ²]	Permitted load F [kN/m]
5	25	115	7	40	3	75
		150				
		175				
		200				
		240				
		300				
5	50	115	7	20	3	150
		125				
		150				
		175				
		200				
		240				
300						
365						

Dimensions of non reinforced sliding elastomer bearing type TDG 27 SZ - linear						
Elastomer core thickness d [mm]	Elastomer core width b _e [mm]	Bearing width b [mm]	Bearing thickness t [mm]	Rotation angle [%]	Average tension [N/mm ²]	Permitted load F [kN/m]
5	75	115	7	13	3	225
		150				
		175				
		200				
		240				
		300				
		365				
5	100	150	7	10	3	300
		175				
		200				
		240				
		300				
10	50	115	12	40	3	150
		150				
		175				
		200				
		240				
		300				
10	75	115	12	27	3	225
		150				
		175				
		200				
		240				
		300				
10	100	150	12	20	3	300
		175				
		200				
		240				
		300				
365						

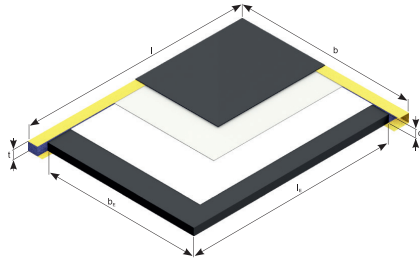
Horizontal movement ± 20 mm
Friction factor between 0,01 and 0,05 at 23°C
Standard length of elastomer bearing is 1 m

Non reinforced sliding point elastomer bearings type NEG



Dimensions marking:

- t** - bearing thickness [mm]
- d** - thickness of elastomer core [mm]
- b** - bearing width [mm]
- l** - bearing length [mm]
- d₁** - diameter of hole [mm]
- d₂** - length of oval hole in sliding plate [mm]



Order specification:

$$b_E \times l_E \times d / b \times l / t \text{ [mm]}$$

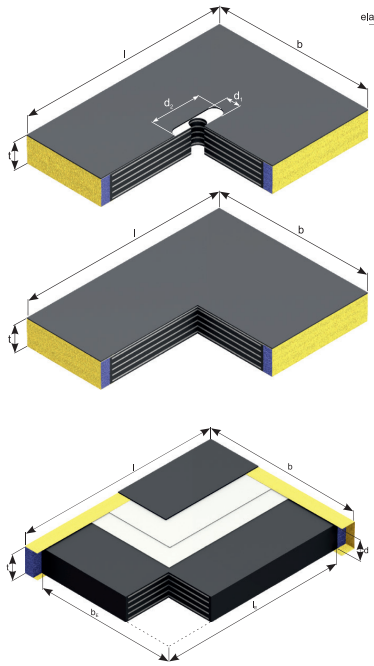
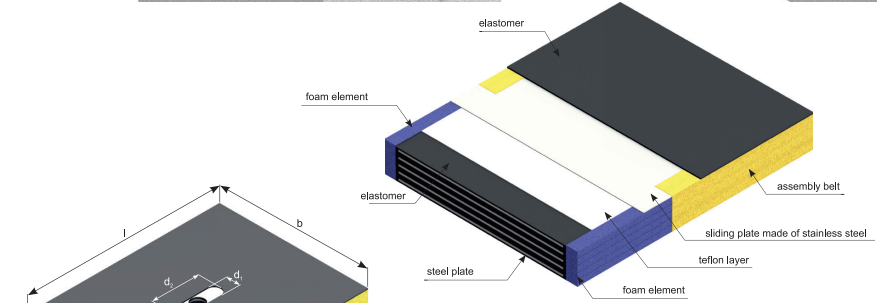
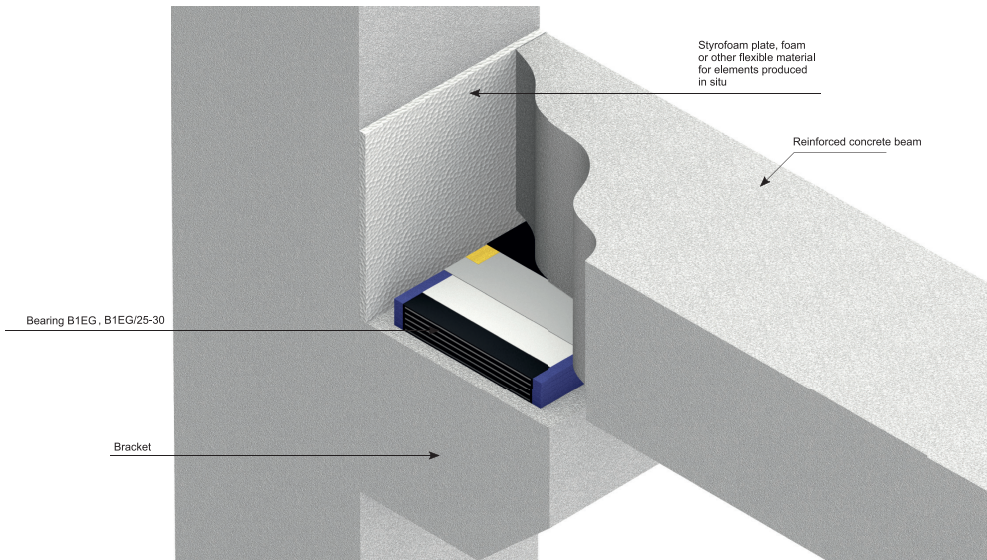
- b_E - width of elastomer core [mm]
- l_E - length of elastomer core [mm]
- d - thickness of elastomer core [mm]
- b - bearing width/sliding plate [mm]
- l - bearing length/sliding plate [mm]
- t - bearing thickness [mm]

Dimensions of non reinforced sliding elastomer bearing type **NEG** - point bearings

Bearing dimensions		Bearing thickness t [mm]	Thickness of elastomer core d [mm]	Permitted load F [kN]	Permitted rotation angle		Possible average tension [N/ mm ²]
Elastomer core $b_E \times l_E$ [mm]	Sliding plate $b \times l$ [mm]				Shorter side b [%]	Longer side l [%]	
100x 100	140 x 140	9	5	50	10	10	5
		14	10	30	20	20	3
100x 150	140x 190	9	5	75	10	7	5
		14	10	54	20	13	3,6
150x200	190x240	9	5	150	7	5	5
		14	10	150	13	10	5
200x200	240 x 240	9	5	200	5	5	5
		14	10	200	10	10	5
		19	15	170	15	15	4,3
200 x 250	240 x 290	9	5	250	5	4	5
		14	10	250	10	8	5
		19	15	222	15	12	4,4
200x300	240 x 340	9	5	300	5	3	5
		14	10	300	10	7	5
		19	15	288	15	10	4,8
250x300	290 x 340	9	5	375	4	3	5
		14	10	375	8	7	5
		19	15	370	12	10	4,9
200x400	240 x 440	9	5	400	5	3	5
		14	10	400	10	5	5
		19	15	400	15	8	5
		24	20	320	20	10	4
250x400	290 x 440	9	5	500	4	3	5
		14	10	500	8	5	5
		19	15	500	12	8	5
		24	20	462	16	10	4,6
300 x 400	340 x 440	9	5	600	3	3	5
		14	10	600	7	5	5
		19	15	600	10	8	5
		24	20	600	13	10	5

Horizontal movement ± 20 mm
Friction factor between 0,01 and 0,05 at 23°C

Reinforced sliding point elastomer bearings type B1EG and B1EG/25-30



Dimensions marking:

- t** - bearing thickness [mm]
- d** - thickness of elastomer core [mm]
- b** - bearing width [mm]
- l** - bearing length [mm]
- d₁** - diameter of hole [mm]
- d₂** - length of oval hole in sliding plate [mm]
- D** - bearing diameter [mm]

Order specification:

$b \times l \times d / b \times l / t$ [mm]

- b_e** - elastomer core width [mm]
- l_e** - length of elastomer core [mm]
- d** - elastomer core thickness [mm]
- b** - width of bearing [mm]
- l** - length of bearing [mm]
- t** - thickness of bearing [mm]

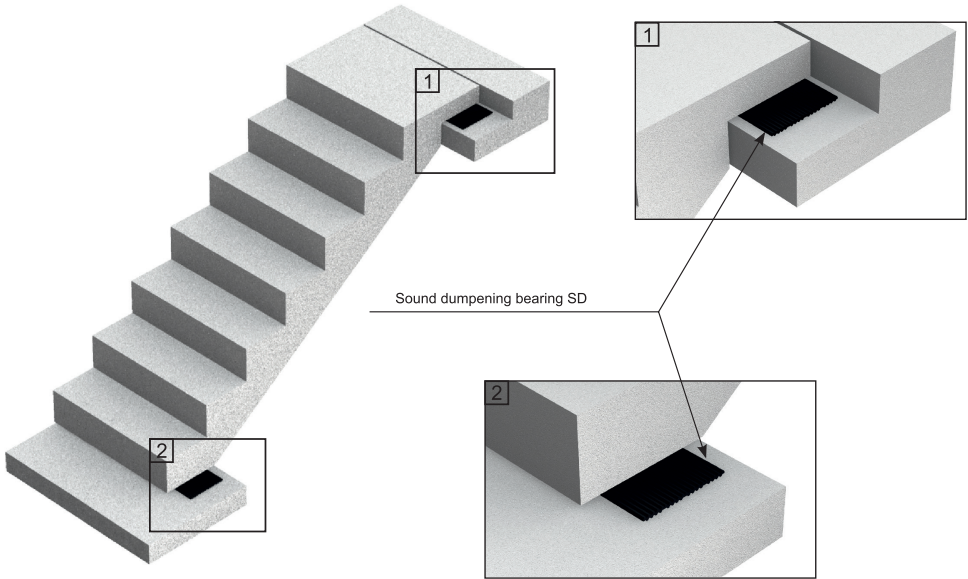
Dimensions of reinforced sliding elastomer bearings type BIEG - point bearings						
Bearing dimensions		Bearing thickness t [mm]	Permitted load F [kN]	Permitted rotation angle		Possible average tension [N/mm ²]
Elastomer core b _E x l _E [mm]	Sliding plate b x l [mm]			Shorter side b [%]	Longer side l [%]	
100 x 100	140 x 140	14	150	4	4	up to 15
		18		4	4	
		25		8	8	
		32		12	12	
100 x 150	140 x 190	14	225	4	3	
		18		4	3	
		25		8	6	
		32		12	9	
150 x 200	190 x 240	14	450	3	3	
		18		3	3	
		25		6	6	
		32		9	9	
200 x 250	240 x 290	14	750	3	3	
		23		3	3	
		34		6	5	
		45		9	8	
200 x 300	240 x 340	14	900	3	2	
		23		3	2	
		34		6	4	
		45		9	6	
250 x 300	290 x 340	14	1125	2	2	
		23		3	2	
		34		5	4	
		45		7	6	
200 x 400	240 x 440	14	1200	3	1	
		23		3	1	
		34		6	2	
		45		9	4	
250 x 400	290 x 440	14	1500	3	1	
		23		3	1	
		34		5	2	
		45		7	4	
300 x 400	340 x 440	14	1800	2	1	
		23		2	1	
		34		4	2	
		45		6	4	
		56		8	5	

Horizontal movement ± 20 mm
(There is possibility to design bearing with higher movements)
Friction factor between 0,01 and 0,05 at 23°C

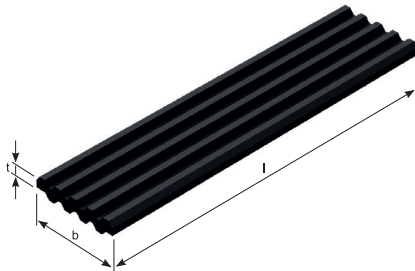
Dimensions of reinforced sliding elastomer bearings type B1EG/25-30 - point bearings						
Bearing dimensions		Bearing thickness t [mm]	Permitted load F [kN]	Permitted rotation angle		Possible average tension [N/mm ²]
Elastomer core b _E x l _E [mm]	Sliding plate b x l [mm]			Shorter side b [%]	Longer side l [%]	
100 x 100	160 x 160	14	300	4	4	up to 30
		18		4	4	
		25		8	8	
		32		12	12	
100 x 150	160 x 210	14	450	4	3	
		18		4	3	
		25		8	6	
		32		12	9	
150 x 200	210 x 260	14	900	3	3	
		18		3	3	
		25		6	6	
		32		9	9	
200 x 250	260 x 310	14	1500	3	3	
		23		3	3	
		34		6	5	
		45		9	8	
200 x 300	260 x 360	14	1800	3	2	
		23		3	2	
		34		6	4	
250 x 300	310 x 360	14	2250	2	2	
		23		3	2	
		34		5	4	
200 x 400	260 x 460	14	2400	3	1	
		23		3	1	
		34		6	2	
		45		9	4	
250 x 400	310 x 460	14	3000	3	1	
		23		3	1	
		34		5	2	
		45		7	4	
300 x 400	360 x 460	14	3600	2	1	
		23		2	1	
		34		4	2	
		45		6	4	
		56		8	5	

Horizontal movement ± 30 mm
 (There is possibility to design bearing with higher movements)
 Friction factor between 0,01 and 0,05 at 23°C

Sound dampening elastomer bearing type SD



Sound dampening bearing SD



Order specification:

t x b [mm]

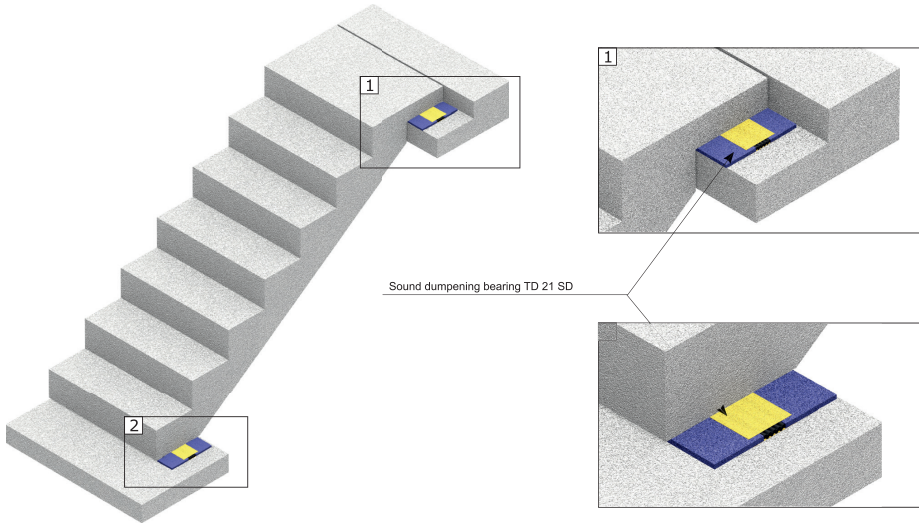
t - bearing thickness [mm]
b - bearing width [mm]
l - bearing length [mm]
for t=5 mm - roll 20 m
for t=10 mm - roll 10 m

Dimensions of elastomer bearing type SD

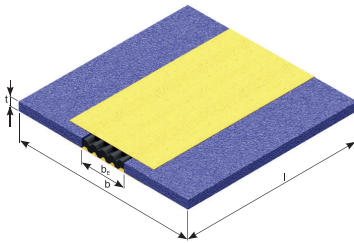
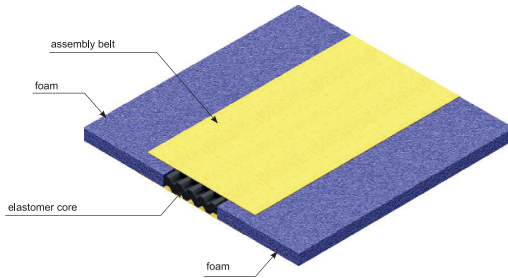
Bearing thickness t [mm]	Bearing width b [mm]	Length* l [m]	Maximum permitted tension σ_m [N/mm ²]	Permitted tension for dampening properties [N/mm ²]	Horizontal movement [mm]
5	50	20	up to 15	0,1±1,0	± 2
5	100	20	up to 15	0,1±1,0	± 2
5	150	20	up to 15	0,1±1,0	± 2
5	200	20	up to 15	0,1±1,0	± 2
10	50	10	up to 10	0,1±1,0	± 4
10	100	10	up to 10	0,1±1,0	± 4
10	150	10	up to 10	0,1±1,0	± 4
10	200	10	up to 10	0,1±1,0	± 4

*There is possibility to cut SD bearing into desired lengths

Sound dampening elastomer bearing type TD 21 SD



TD 21 SD elastomer bearing is used for monolytic elements (produced in situ). Flexible foam near elastomer is only filling element.



Order specification:

$t \times b_E / b \text{ [mm]}$

t - bearing thickness [mm]
 b_E - elastomer core width [mm]
 b - bearing width [mm]
 l - bearing length (standard 1 m)

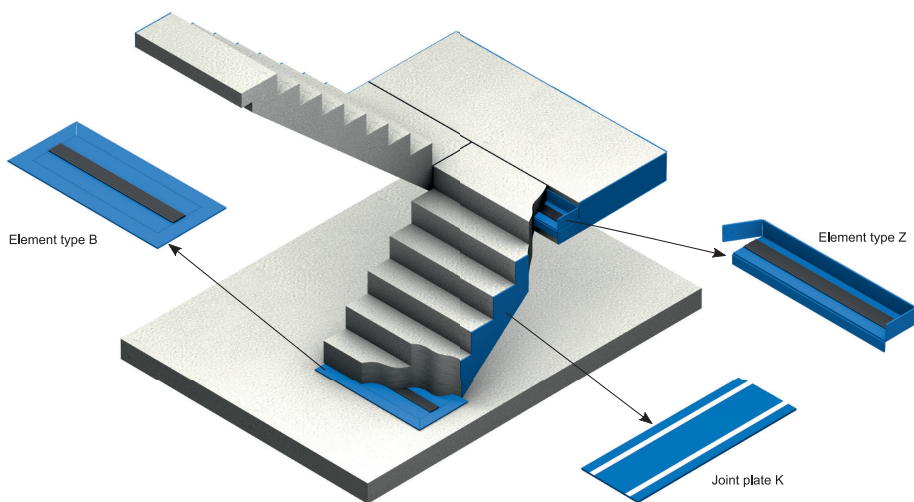
Dimensions of elastomer bearing type **TD 21 SD**

Bearing thickness t [mm]	Elastomer core width b_E [mm]	Bearing width b [mm]	Length* l [m]	Maximum permitted tension** σ_m [N/mm ²]	Permitted tension for dampening properties** σ_m [N/mm ²]	Horizontal movement [mm]
5	50	100	1	up to 15	0,1±1,0	± 2
5	100	150	1	up to 15	0,1±1,0	± 2
10	50	100	1	up to 10	0,1±1,0	± 4
10	100	150	1	up to 10	0,1±1,0	± 4

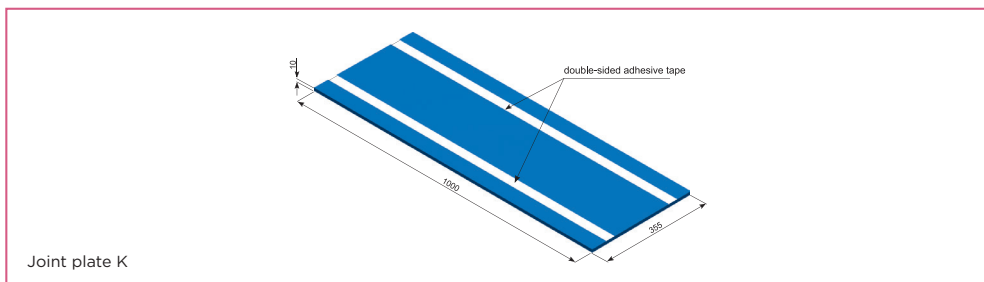
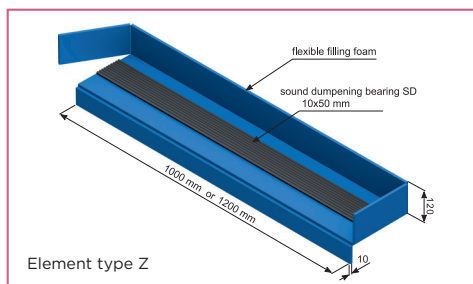
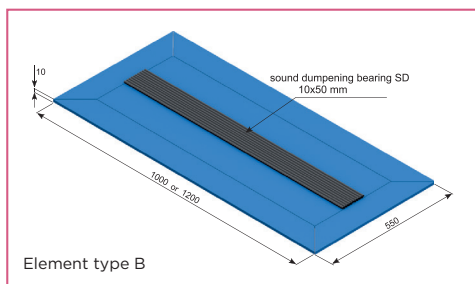
*Standard length of TD 21 SD bearing is 1 meter with possibility to cut into desired request

**Tensions concern bearing core

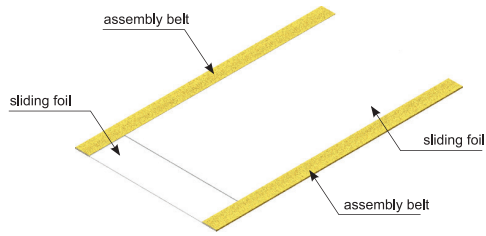
Akustic insulation of staircase landings



Symbol	Sale unit	Unit	Article no.
Sound dampening elastomer bearing - type SD with elastic foam type Z 10x50x1000 mm	pcs	pcs	PL-PE-TL-4-57331
Sound dampening elastomer bearing - type SD with elastic foam type Z 10x50x1200 mm	pcs	pcs	PL-PE-TL-4-57332
Sound dampening elastomer bearing type SD with elastic foam - type B 10x55x1000 mm	pcs	pcs	PL-PE-TL-4-57330
Sound dampening elastomer bearing type SD with elastic foam type B 10x55x1200 mm	pcs	pcs	PL-PE-TL-4-51587
Joint plate K 10x355x1000 mm	pcs	pcs	PL-PE-TL-4-27607

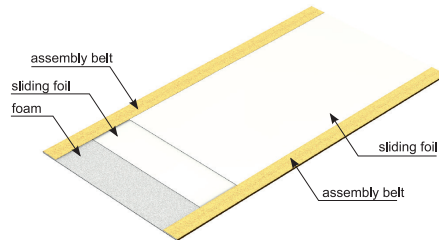


Sliding foils



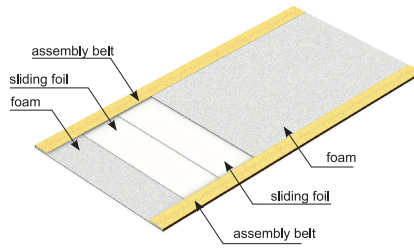
Sliding foil **TG 1 A**

Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
1	115	1,5	up to 1	23	0,05 ÷ 0,10
	150				
	175				
	200				
	240				
	300				
	365				
1000					

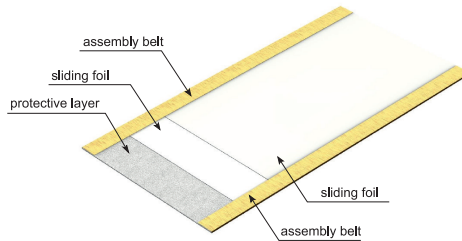


Sliding foil **TG 1 A+b1**

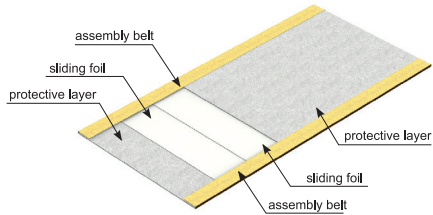
Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
3	115	1,5	up to 1	23	0,05 ÷ 0,10
	150				
	175				
	200				
	240				
	300				
	365				



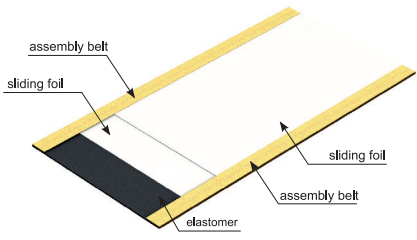
Sliding foil TG 1 A+c1					
Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
5	115	1,5	up to 1	23	0,05 ÷ 0,10
	150				
	175				
	200				
	240				
	300				
	365				



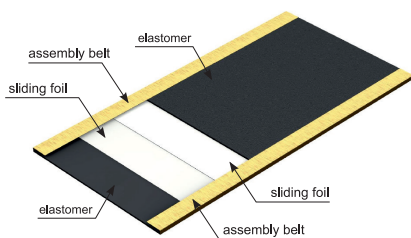
Sliding foil TG 1 A+b3					
Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
3	1000	25	up to 0,5	23	0,05 ÷ 0,15



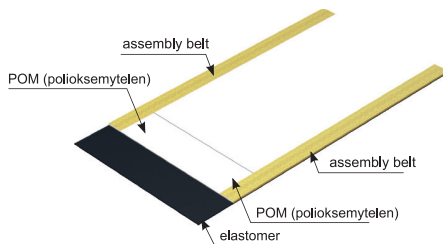
Sliding foil TG 1 A+c3					
Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
5	1000	25	up to 0,5	23	0,05 ÷ 0,15



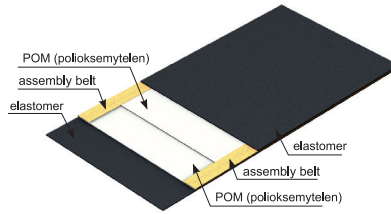
Sliding foil TG 1 A+b4					
Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
3	115	1	up to 3	23	0,05 ÷ 0,10
	150				
	175				
	200				
	240				
	300				
	365				



Sliding foil TG 1 A+c4					
Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
5	115	1	up to 3	23	0,05 ÷ 0,10
	150				
	175				
	200				
	240				
	300				
365					

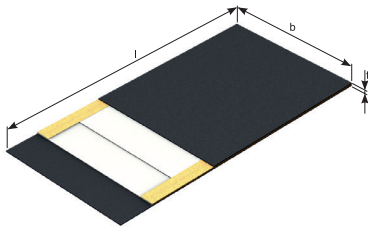


Sliding foil TG 5 POM + b4					
Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
4	115	1	up to 10	23	0,05 ÷ 0,10
	150				
	175				
	200				
	240				
	300				
365					



Sliding foil **TG 5 POM+c4**

Thickness t [mm]	Width b [mm]	Length l [m]	Permitted tension σ_m [N/mm ²]	Temperature [°C]	Friction factor
6	115	1	up to 10	23	0,05 ÷ 0,10
	150				
	175				
	200				
	240				
	300				
	365				



Order specification:

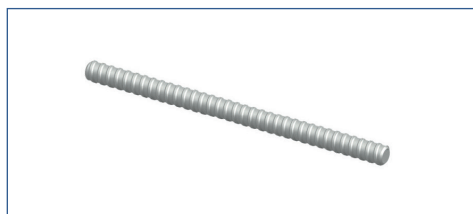
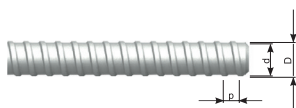
t x b x l [mm]

- t** - Thickness of sliding foil [mm]
- b** - Width of sliding foil [mm]
- l** - Length of sliding foil [mm]

Formwork accessories

Forbuild offers wide range of necessary formwork accessories compatible with most of formwork systems. Our offer includes formwork accessories for wall formworks and ceiling formworks, single side anchors and permanent shatering.

Tie rod B

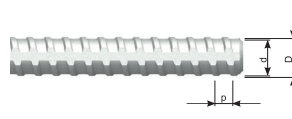
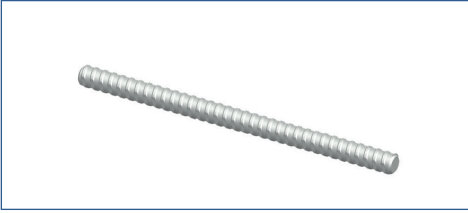


Symbol	Outer diameter D [mm]	Core diameter d [mm]	Lead p [mm]	Useful load [kN]	Breaking force [kN]
B15	17,0	15,0	10,0	90	150
B20	22,0	20,0	10,0	150	260
B26,5	30,0	26,5	13,0	240	465

Symbol	Thread type	Length* [m]	Package [pcs]	Sale unit	Weight [kg/m]	Article no.
Tie rod B15	B15	6,00*	1	m	1,55	AS-DK-SC-1-00759
Tie rod B20	B20	6,00*	1	m	2,60	AS-DK-SC-1-00760
Tie rod B26,5	B26,5	6,00*	1	m	4,60	AS-DK-SC-1-00762

* We offer possibility to purchase different lengths

Tie rod SGS



Symbol	Outer diameter D [mm]	Core diameter d [mm]	Lead p [mm]	Useful load [kN]	Breaking force [kN]
SGS 15	17,0	15,0	10,0	90	175
SGS 20	22,0	20,0	10,0	160	340

Symbol	Thread type	Length [m]	Package [pcs]	Sale unit	Weight [kg/m]	Article no.
Tie rod SGS 15	SGS 15	6,00*	1	pcs	1,440	AS-DK-SC-0-00763
Tie rod SGS 20	SGS 20	6,00*	1	pcs	2,500	AS-DK-SC-0-05271

* We offer possibility to purchase different lengths

Seal for pipes ActiveRing

Seal made of swelling TPE material. It shows good sealing properties for liquids with pressure up to 0,8 MPa.

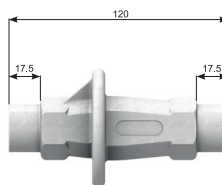
Active Ring mini - for plastic pipes with diameter 25 - 32 mm

Active Ring maxi - for concrete pipes with diameter 38 - 42mm



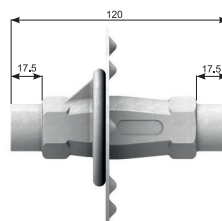
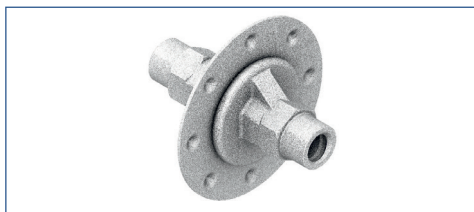
Symbol	Diameter		Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	inner [mm]	outer [mm]				
Seal for pipes ActiveRing mini	24	34	250	bag	1,75	SU-TP-FX-51442
Seal for pipes ActiveRing maxi	35	45	250	bag	2,50	SU-TP-FX-51443

Water barrier D65



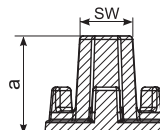
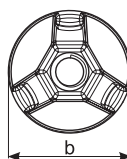
Symbol	Thread type	Diameter [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Water barrier D65	B15/SGS15	65	1	pcs	0,525	AS-DK-SC-0-00742

Water barrier D110 OS



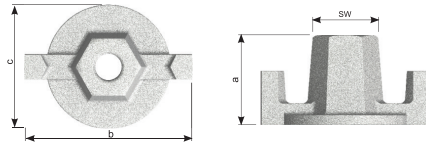
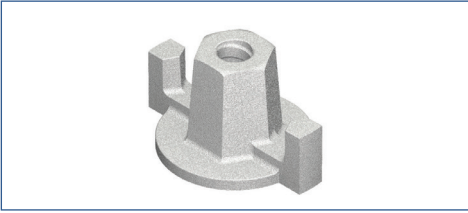
Symbol	Thread type	Diameter [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Water barrier D110 OS	B15/SGS15	110	1	pcs	0,700	AS-DK-SC-1-00740

Plate nut D65/3



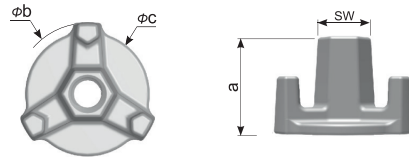
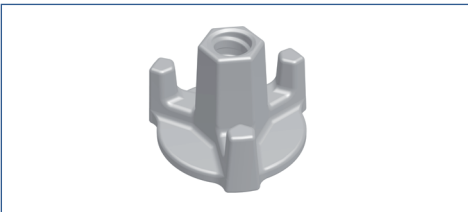
Symbol	Thread type	Dimensions a x b [mm]	SW [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Plate nut D65/3	B15	53 x 65	27	100	pcs	0,360	AS-DK-SC-1-60627

Plate nut D70



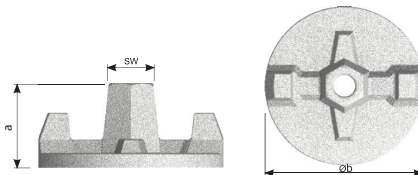
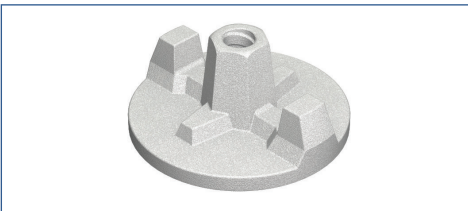
Symbol	Thread type	Dimensions a x b x c [mm]	SW [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Plate nut D70	B15	50 x 95 x 70	27	50	pcs	0,470	AS-DK-SC-1-00086

Plate nut D70/3



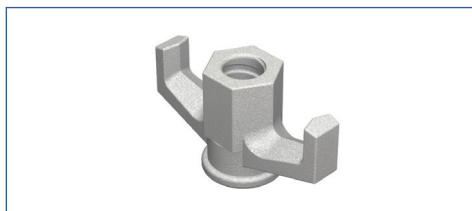
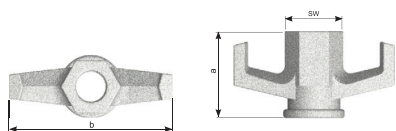
Symbol	Thread type	Dimensions a x b x c [mm]	SW [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Plate nut D70/3	B15	53 x 80,5 x 70	27	50	pcs	0,444	AS-DK-SC-4-38141

Plate nut D100



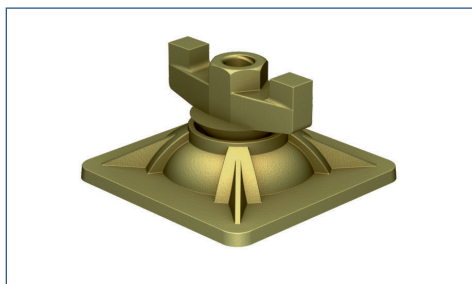
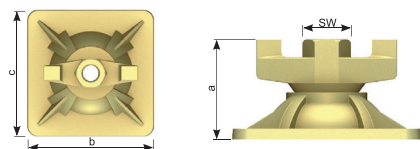
Symbol	Thread type	Dimensions a x b [mm]	SW [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Plate nut D100	B15	50 x 100	27	25	pcs	0,635	AS-DK-SC-1-00085

Butterfly nut



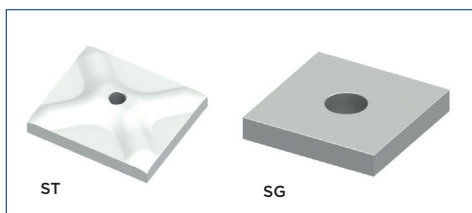
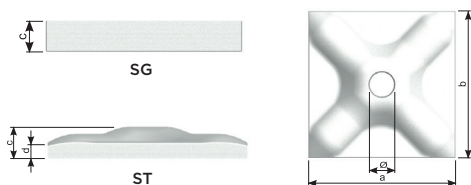
Symbol	Thread type	Dimensions a x b [mm]	SW [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Butterfly nut B15	B15	55 x 85	27	100	pcs	0,310	AS-DK-SC-1-00079
Butterfly nut B20	B20	60 x 110	36	50	pcs	0,495	AS-DK-SC-1-00080

Articulated nut KP



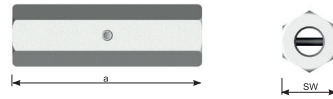
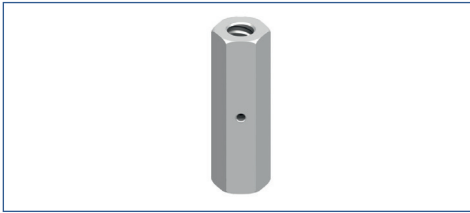
Symbol	Thread type	Dimensions a x b x c [mm]	SW [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Articulated nut KP-S B15	B15	120 x 120 x 66	27	1	pcs	1,26	AS-DK-SC-1-00081

Steel pad ST i SG



Symbol	Hole diameter Ø [mm]	Dimensions a x b x c x d [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Steel pad ST 20	20	120 x 120 x 20 x 10	1	pcs	1,10	AS-DK-SC-0-00733
Steel pad ST 25	25	120 x 120 x 20 x 10	1	pcs	1,00	AS-DK-SC-0-00734
Steel pad SG 25	25	120 x 120 x 20	1	pcs	2,19	AS-DK-SC-0-00735
Steel pad SG 34	34	120 x 120 x 20	1	pcs	2,12	AS-DK-SC-0-00736

Hexagonal connecting nut



Symbol	Thread type	Length a [mm]	SW [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Hexagonal connecting nut B15 L=105 mm	B15	105	30	50	pcs	0,445	AS-DK-SC-0-00084
Hexagonal connecting nut B20 L=110 mm	B20	110	36	50	pcs	0,650	AS-DK-SC-0-00728
Hexagonal connecting nut B26,5 L=150 mm	B26,5	150	46	10	pcs	1,400	AS-DK-SC-0-00729

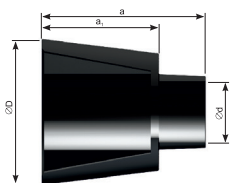
Hexagonal nut



Symbol	Thread type	Length a [mm]	SW [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Hexagonal nut B15 L=90 mm	B15	90	30	50	pcs	0,385	AS-DK-SC-0-08820
Hexagonal nut B15 L=70 mm	B15	70	30	50	pcs	0,300	AS-DK-SC-0-00720
Hexagonal nut B15 L=50 mm	B15	50	30	100	pcs	0,215	AS-DK-SC-0-00719
Hexagonal nut B15 L=25 mm*	B15	25	30	250	pcs	0,100	AS-DK-SC-0-00716
Hexagonal nut B20 L=60 mm	B20	60	36	50	pcs	0,500	AS-DK-SC-0-00722
Hexagonal nut B26,5 L=80 mm	B26,5	80	46	25	pcs	0,800	AS-DK-SC-0-00727

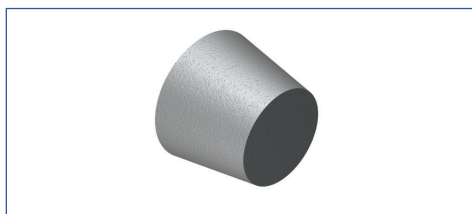
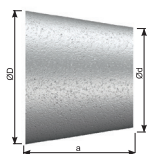
* To use only as a lock nut

Plastic cone EX type 03



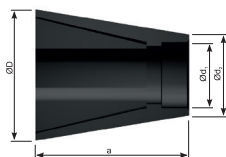
Symbol	Concrete cover [mm]	Dimensions [mm]				Package carton [pcs]	Sale unit	Weight [kg/carton]	Article no.
		a	a ₁	ØD	Ød				
Plastic cone EX 22/50 type 03	50	70	50	62	26	120	bag	3,650	AS-DK-SC-0-00758

Concrete plug EX type 03



Symbol	Dimensions [mm]			Package carton [pcs]	Sale unit	Weight [kg/carton]	Article no.
	a	ØD	Ød				
Concrete plug EX type 03	45	60	50	75	carton	16,500	AS-DK-SC-0-23460

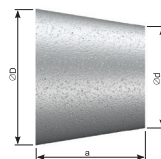
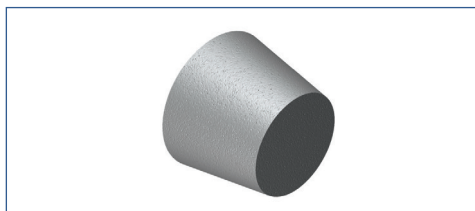
Plastic cone EX type 04



Symbol	Dimensions [mm]				Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	Ød ₁	Ød ₂	ØD					
Plastic cone EX 22/50 type 04	62	26	34	53	50	250	bag	7,750	AS-DK-SC-0-00753
Plastic cone EX 26/50 type 04	62	30	36	52	50	250	bag	7,850	AS-DK-SC-0-00755

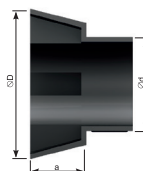
It is put on K-22 or K-26 plastic pipe.

Concrete plug EX type 04



Symbol	Dimensions [mm]			Package carton [pcs]	Sale unit	Weight [kg/ carton]	Article no.
	a	ØD	Ød				
Concrete plug EX type 04	35	50	39	120	carton	13,000	AS-DK-SC-0-23462

Plastic cone EX type 01 and 05

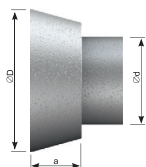


Symbol	Dimensions [mm]			Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	Ød	ØD					
Plastic cone EX 22/10 type 01	10	22	43	10	500	bag	2,600	AS-DK-SC-0-00751
Plastic cone EX 22/15 type 01	15	22	43	15	500	bag	4,000	AS-DK-SC-0-00752
Plastic cone EX 26/10 type 05	10	26	48	10	250	bag	1,500	AS-DK-SC-0-00754
Plastic cone EX 32/10 type 05	10	32	48	10	250	bag	2,000	AS-DK-SC-0-00756
Plastic cone EX 22/10U type 01*	10	22	43	10	250	bag	2,700	AS-DK-SC-0-23748



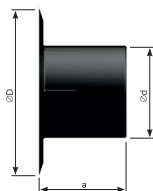
* Plastic cone with seal EX 22/10U type 01

Concrete plug EX type 01 and 05



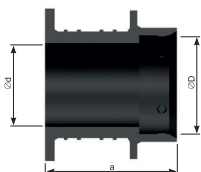
Symbol	Dimensions [mm]			Package carton [pcs]	Sale unit	Weight [kg/carton]	Article no.
	a	Ød	ØD				
Concrete plug EX type 01	7	20	39	100	carton	2,700	AS-DK-SC-0-27018
Concrete plug EX type 05	12	22	45,5	50	carton	2,150	AS-DK-SC-0-27058

Plastic plug EX 22



Symbol	Dimensions [mm]			Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	Ød	ØD				
Plastic plug EX 22	22	22	31	250	bag	0,750	AS-DK-SC-0-00681

Plastic end IN



Symbol	Dimensions [mm]			Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	ØD	Ød					
Plastic end IN 22	35	26	22	25	500	bag	1,500	AS-DK-SC-0-00671
Plastic end IN 26	34	29	26	25	250	bag	3,000	AS-DK-SC-0-00672
Plastic end IN 32	39	36	32	30	250	bag	3,250	AS-DK-SC-0-00673

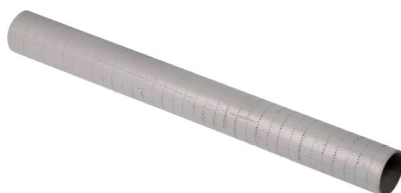
Water barrier reduction 22/26



Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Water barrier reduction 22/26	250	pcs	0,060	AS-DK-SC-0-00664

For connection of plastic pipe K22 with water barriers available in Forbuild system.

Plastic pipe K



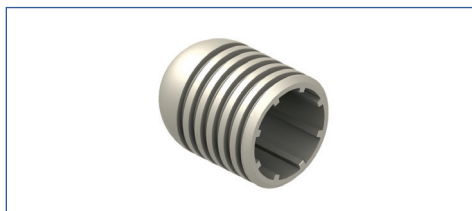
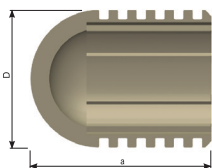
Symbol	Diameter inner/zew [mm]	Length [mm]	Package bunch [m]	Sale unit	Weight [kg/m]	Article no.
K-22/25	22/25	2000	100	bunch	0,210	AS-DK-SC-0-00745
K-22/26	22/26	2000	100	bunch	0,215	AS-DK-SC-0-00746
K-26	26/30	2000	50	bunch	0,240	AS-DK-SC-0-00749
K-32	32/36	2000	50	bunch	0,285	AS-DK-SC-0-00750

Concrete pipe FB



Symbol	Diameter wew/zew [mm]	Length [mm]	Package pallet [m]	Sale unit	Weight [kg/m]	Article no.
Concrete pipe FB 22/40	22/40	1250	500	pallet	2,200	AS-DK-SC-0-00670

Rubber plug FLUPP



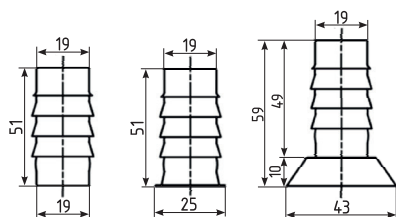
Symbol	Dimensions [mm]		Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	øD				
Rubber plug FLUPP 20	28	24	500	bag	2,750	AS-DK-SC-0-00685
Rubber plug FLUPP 22	33	28	500	bag	5,000	AS-DK-SC-0-00686
Rubber plug FLUPP 26	30	30	250	bag	3,000	AS-DK-SC-0-00687
Rubber plug FLUPP 32	37	36	125	bag	2,500	AS-DK-SC-0-00688

Device for FLUPP plugs pressing



Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Device for FLUPP plugs pressing	1	pcs	0,170	AS-DK-SC-0-00744

Plastic plug STOPPER

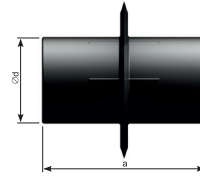


STOPPER in 22 STOPPER mini 22 STOPPER maxi 22



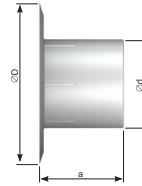
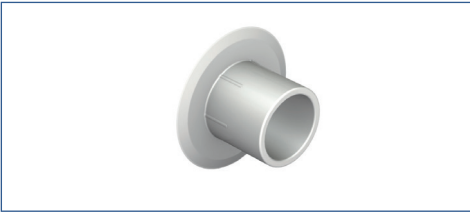
Symbol	Package container [pcs]	Sale unit	Weight [kg/container]	Article no.
Plastic plug STOPPER in 22	250	container	6,0	AS-DK-SC-0-51420
Plastic plug STOPPER mini 22	250	container	6,0	AS-DK-SC-0-51421
Plastic plug STOPPER maxi 22	250	container	9,0	AS-DK-SC-0-51422

Connector for plastic pipes D22



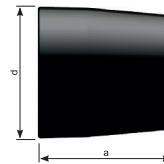
Symbol	Dimensions [mm]		Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	d				
Connector for plastic pipes D22	48	22	250	bag	1,250	AS-DK-SC-0-00772

Distance pipe seal FB



Symbol	Dimensions [mm]			Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	Ød	ØD				
Distance pipe seal FB	26	22	36	500	bag	1,000	AS-DK-SC-0-00769

Plastic plug STOPF



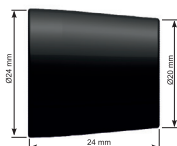
Symbol	Dimensions [mm]		Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	a	d				
Plastic plug STOPF 20	16	20	1000	bag	2,000	AS-DK-SC-0-00690
Plastic plug STOPF 22	18	22	1000	bag	2,500	AS-DK-SC-0-00691
Plastic plug STOPF 26	27	26	1000	bag	6,000	AS-DK-SC-0-00692
Plastic plug STOPF 32	16	32	1000	bag	4,000	AS-DK-SC-0-00693

Device for seal pulling out



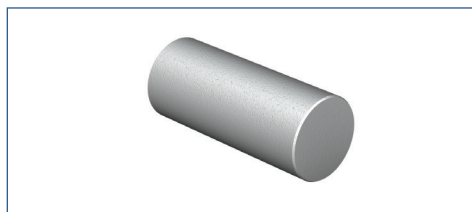
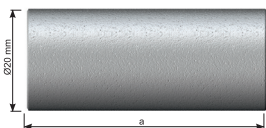
Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Device for seal pulling out	1	pcs	0,100	AS-DK-SC-0-05781

PVC plug for distance concrete pipe FB



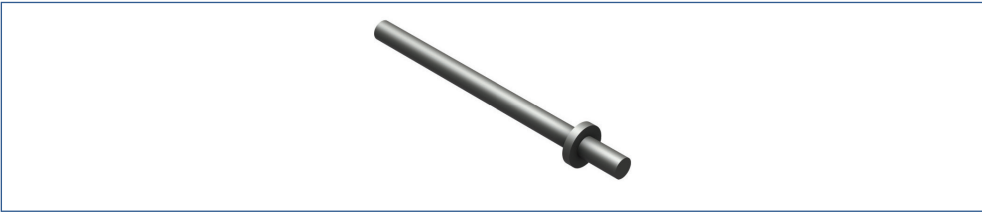
Symbol	Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
KPVC plug for distance concrete pipe FB	500	bag	1,500	AS-DK-SC-0-08224

Concrete plug FB



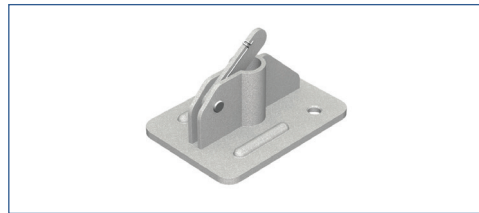
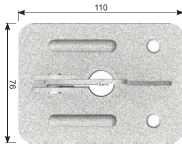
Symbol	Diameter [mm]	Length a [mm]	Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
Concrete plug FB 22 L=20 mm	20	20	500	bag	6,500	AS-DK-SC-0-38024
Concrete plug FB 22 L=20 mm	20	20	1000	bag	13,000	AS-DK-SC-0-00665
Concrete plug FB 22 L=50 mm	20	50	500	bag	16,500	AS-DK-SC-0-00666

Device for plugs pressing FB



Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Device for plugs pressing FB 22 L=20 mm	1	pcs	0,450	AS-DK-SC-0-05782
Device for plugs pressing FB 22 L=50 mm	1	pcs	0,500	AS-DK-SC-0-00770

Wire grip



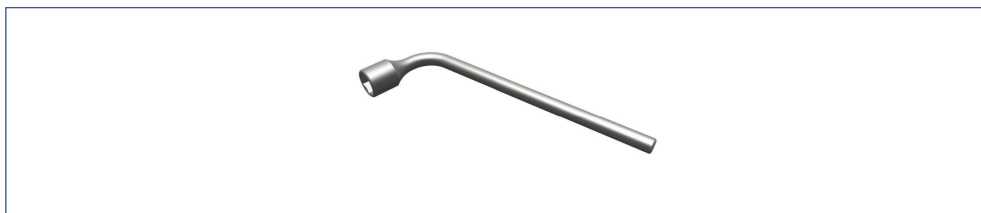
Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Wire grip	25	pcs	0,375	AS-DK-SC-0-00767

Tension wrench



Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Tension wrench	1	pcs	3,430	AS-DK-SC-0-00731

Socket wrench FCB



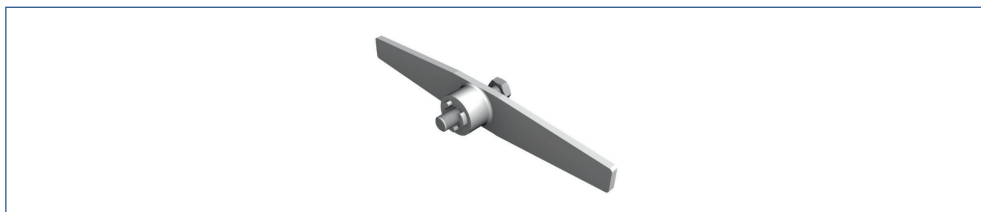
Symbol	SW [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Socket wrench FCB-15	27	1	pcs	1,150	NA-NA-00-0-04720
Socket wrench FCB-20	32	1	pcs	1,620	NA-NA-00-0-04721

Special wrench for cone FCB



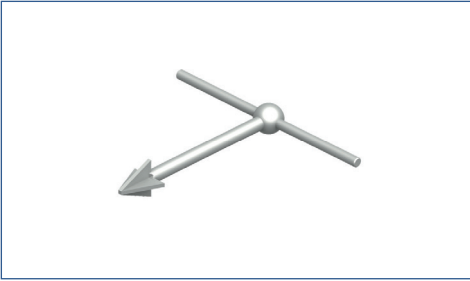
Symbol	SW [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Special wrench for cone FCB-15	27	1	pcs	2,450	NA-NA-00-0-04724
Special wrench for cone FCB-20	32	1	pcs	2,860	NA-NA-00-0-04725
Special wrench for cone FCB-26,5	46	1	pcs	7,320	NA-NA-00-0-04726

Special wrench FCM-15



Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Special wrench FCM-15	1	pcs	4,040	NA-NA-00-0-04727

Wrench for screwing EX cones out



Wrench EX



Wrench EX type 03

Symbol	Package [pcs]	Sale unit	Weight [kg/ pcs]	Article no.
Wrench for screwing EX cones out	1	pcs	0,420	NA-NA-00-0-04713
Wrench for screwing EX cones out type 03	1	pcs	0,640	NA-NA-00-0-04714

Wrench for butterfly nuts



Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Wrench for butterfly nuts	1	pcs	2,500	NA-NA-00-0-04710

Wrench SW



Symbol	SW [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Wrench SW 24	24	1	pcs	0,500	NA-NA-00-0-04729
Wrench SW 27	27	1	pcs	0,500	NA-NA-00-0-04730
Wrench SW 30	30	1	pcs	0,810	NA-NA-00-0-04731
Wrench SW 36	36	1	pcs	1,270	NA-NA-00-0-04732
Wrench SW 46	46	1	pcs	2,400	NA-NA-00-0-04733

Wrench for tie rods



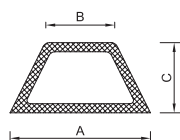
Wrench for B15 tie



Universal wrench for tie rods

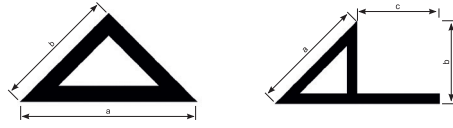
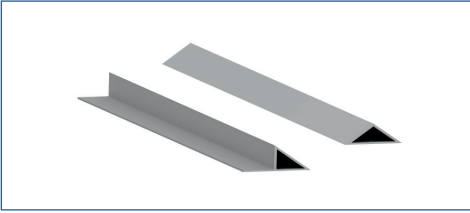
Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Wrench for B15 tie	1	pcs	1,640	NA-NA-00-0-04715
Universal wrench for tie rods	1	pcs	2,460	NA-NA-00-0-04728

Plastic chamfer batten - trapeze



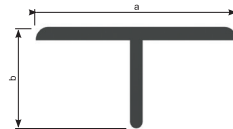
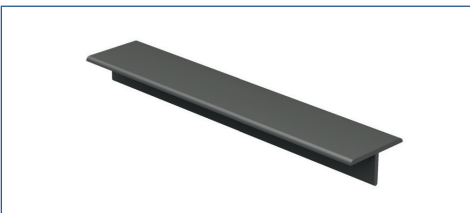
Symbol	Dimensions			Length [mm]	Package bunch/pallet [m]	Sale unit	Weight [kg/100m]	Article no.
	A [mm]	B [mm]	C [mm]					
Plastic chamfer batten trapeze 16/10/20	16	10	20	2500	100/2000	bunch	9,00	AS-DK-SC-4-43306
Plastic chamfer batten trapeze 20/10/10	20	10	10	2500	100/2000	bunch	10,00	AS-DK-SC-4-10083
Plastic chamfer batten trapeze 30/20/15	30	20	15	2500	100/2000	bunch	13,00	AS-DK-SC-4-14409
Plastic chamfer batten trapeze 40/20/10	40	20	10	2500	100/2000	bunch	19,00	AS-DK-SC-4-14679

Plastic batten DREIKA



Symbol	Dimensions			Length [mm]	Package bunch/pallet [m]	Sale unit	Weight [kg/100 m]	Article no.
	a [mm]	b [mm]	c [mm]					
Plastic batten DREIKA L10	14	10	8,5	2500	100/5400	bunch	10,00	AS-DK-SC-0-00703
Plastic batten DREIKA L15	21	15	12,5	2500	100/5500	bunch	15,20	AS-DK-SC-0-00705
Plastic batten DREIKA L20	28	20	15,5	2500	100/4500	bunch	18,00	AS-DK-SC-0-00707
Plastic batten DREIKA L25	35	25	14	2500	50/2450	bunch	25,60	AS-DK-SC-0-00708
Plastic batten DREIKA L30	42	30	14	2500	50/1800	bunch	32,40	AS-DK-SC-0-00709
Plastic batten DREIKA 11/11	16	11	-	2500	100/9000	bunch	3,30	AS-DK-SC-0-00698
Plastic batten DREIKA 15/15	21	15	-	2500	100/5600	bunch	5,70	AS-DK-SC-0-00699
Plastic batten DREIKA 20/20	28	20	-	2500	100/5500	bunch	8,90	AS-DK-SC-0-00700
Plastic batten DREIKA 25/25	35	25	-	2500	100/2700	bunch	10,56	AS-DK-SC-0-00701
Plastic batten DREIKA 30/30	42	30	-	2500	50/2400	bunch	15,98	AS-DK-SC-0-00702

Plastic batten T



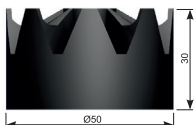
Symbol	Dimensions a x b [mm]	Length [mm]	Package [m/bunch]	Sale unit	Weight [kg/100m]	Article no.
Plastic batten T	40 x 20	2000	100	bunch	16,8	AS-DK-SC-0-00713

Gluing foam in roll



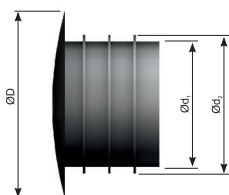
Symbol	Dimensions			Package roll [m]	Sale unit	Weight [kg/roll]	Article no.
	thickness [mm]	width [mm]	length [m]				
Gluing foam in roll 19x6 mm L=10 m	6	19	10	10	roll	0,095	AS-DK-SC-0-43233

Ring - Center



Symbol	Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
Ring - Center	500	pcs	7,500	AS-DK-SC-0-00662

Plastic plug for formworks



Symbol	Dimensions			Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
	d ₁	d ₂	D				
Plastic plug for formworks D18	16	20	24	250	pcs	0,500	AS-DK-SC-0-00677
Plastic plug for formworks D22	20	24	27	250	pcs	0,625	AS-DK-SC-0-00678
Plastic plug for formworks D22 type 2	20	24	34	500	pcs	2,000	AS-DK-SC-0-00679

Crosshead



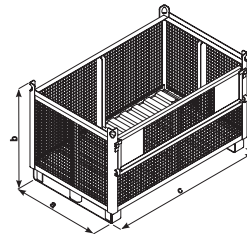
Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Crosshead	1	pcs	2,50	SS-XX-00-0-01934

Stabilizing tripod



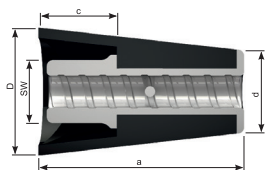
Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Stabilizing tripod	1	pcs	8	SS-ST-00-0-01940

Transportation container



Symbol	Dimensions			Package [pcs]	Sale unit	Weight [kg/pcs]	Weight with max. load [kg]	Article no.
	a	b	c					
Transportation container type A	800	800	1200	1	pcs	74,0	1200	SB-TW-MT-0-05979
Transportation container type F (mesh container)	1100	1150	1200	1	pcs	105,0	605	SB-TW-MT-0-05811

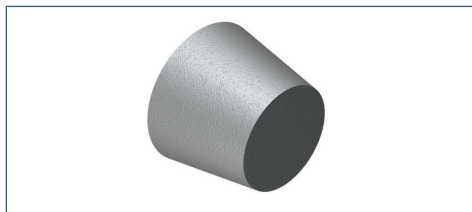
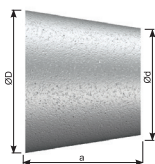
Plastic metal cone - FCB



Dimensions of cone	a [mm]	D [mm]	d [mm]	c [mm]	SW [mm]	Type of closing plug
FCB-15	95	61	40	50	27	Concrete plug EX type 03
FCB-20	126	70	42	65	32	Concrete plug EX type 13
FCB-26,5	135	103	57	70	46	Concrete plug EX type 18

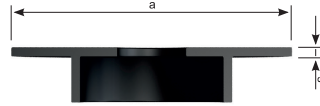
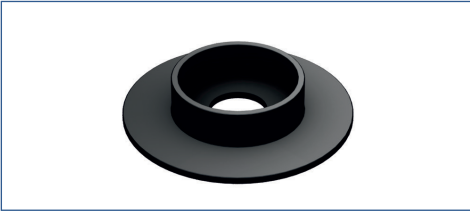
Symbol	Thread type	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Plastic metal cone FCB-15	B15	25	pcs	0,500	AS-ZJ-00-0-00852
Plastic metal cone FCB-20	B20	25	pcs	0,800	AS-ZJ-00-0-00853
Plastic metal cone FCB-26,5	B26,5	10	pcs	1,670	AS-ZJ-00-0-00854

Concrete plug EX



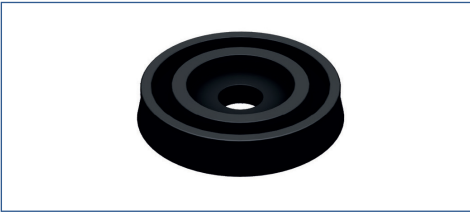
Symbol	Dimensions			Package carton [pcs]	Sale unit	Weight [kg/carton]	Article no.
	a [mm]	ØD [mm]	Ød [mm]				
Concrete plug EX type 03	45	60	50	75	carton	16,500	AS-DK-SC-0-23460
Concrete plug EX type 13	53	68	56	60	carton	16,600	AS-DK-SC-0-28106
Concrete plug EX type 18	60	102	60	25	carton	17,500	AS-DK-SC-0-00676

Plug FCB



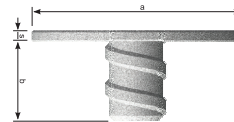
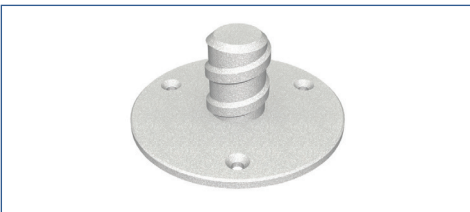
Symbol	Dimensions a x s [mm]	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Plug FCB-15	63 x 2	50	bag	0,004	AS-ZJ-00-0-00873
Plug FCB-20	68 x 2	50	bag	0,006	AS-ZJ-00-0-00874
Plug FCB-26,5	103 x 2	50	bag	0,011	AS-ZJ-00-0-00875

Cone seal FCB-15



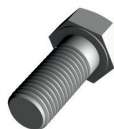
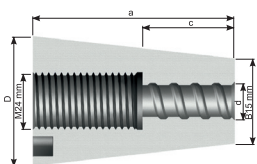
Symbol	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Cone seal FCB-15	25	bag	0,053	AS-ZJ-00-0-00849

Nailing grip FCB



Symbol	Thread type	Dimensions a x b x s [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Nailing grip FCB-15	B15	60 x 24 x 3	1	pcs	0,100	AS-ZJ-00-0-00862
Nailing grip FCB-20	B20	80 x 24 x 3	1	pcs	0,140	AS-ZJ-00-0-00861
Nailing grip FCB-26,5	B26,5	100 x 27 x 3	1	pcs	0,200	AS-ZJ-00-0-00863

Metal cone FCM



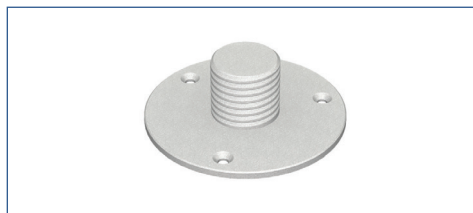
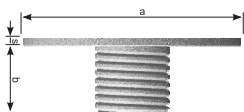
screw M24



Dimensions of cone	a [mm]	D [mm]	d [mm]	c [mm]	Type of closing plug
FCM-24/15	95	61	40	45	Concrete plug EX type 03

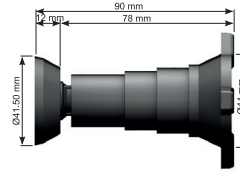
Symbol	Package [pcs]	Sale unit	Weight [kg]	Article no.
Metal cone FCM-24/15	1	pcs	1,200/pcs	AS-ZJ-00-0-00858
Screw M24 L=55 mm	1	pcs	0,320/pcs	AS-ZJ-00-0-00859
Concrete plug EX type 03	75	carton	16,500/carton	AS-DK-SC-0-23460

Nailing grip FCM



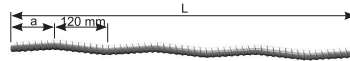
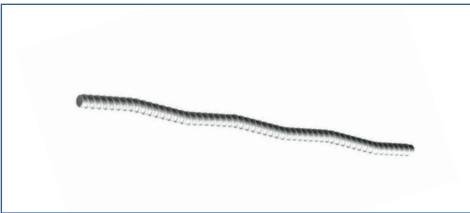
Symbol	Thread type	Dimensions a x b x s [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Nailing grip FCM-24 L=25 mm	M24	80 x 25 x 3	1	pcs	0,160	AS-ZJ-00-0-00865

Mounting element FORBOLD-C



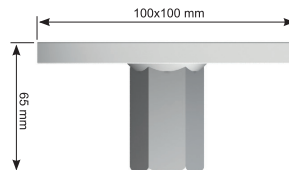
Symbol	Package bag [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Casing anchor FORBOLD-C	50	pcs	2,500	AS-ZJ-00-0-00836
Plug FORBOLD-C	50	pcs	0,350	AS-ZJ-00-0-00837

Wavy anchor



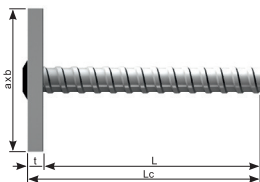
Symbol	Thread type	Dimensions		Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
		L [mm]	a [mm]				
Wavy anchor B15	B15	550	95	1	pcs	0,852	AS-ZJ-00-1-00180
Wavy anchor B20	B20	700	170	1	pcs	1,820	AS-ZJ-00-1-00181
Wavy anchor B26,5	B26,5	800	220	1	pcs	4,600	AS-ZJ-00-1-00182

Anchoring element B20



Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Anchoring element B20	1	pcs	1,480	AS-ZJ-00-0-00840

Anchor with plate

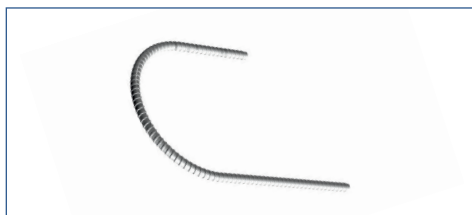
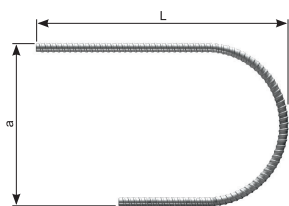


Dimensions of anchor	a x b [mm]	t [mm]	L _c [mm]	L [mm]	Vt [mm]
B15 L= 100 mm	90 x 120	10	120	100	150
B15 L= 160 mm	90 x 120	10	180	160	210
B15 L= 400 mm	90 x 120	10	420	400	450
B20 L= 160 mm	100x130	10	185	160	215
B20 L= 280 mm	100x130	10	300	280	330

Vt - minimum anchorage depth

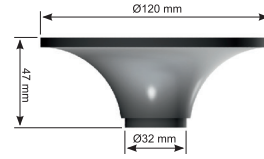
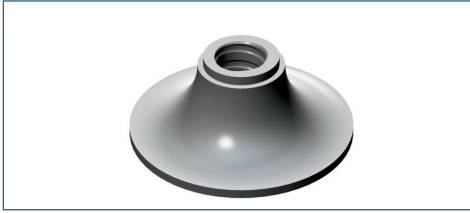
Symbol	Thread type	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Anchor with plate B15 L= 100 mm	B15	1	pcs	0,970	AS-ZJ-00-1-00846
Anchor with plate B15 L= 160 mm	B15	1	pcs	1,070	AS-ZJ-00-1-00847
Anchor with plate B15 L= 400 mm	B15	1	pcs	1,450	AS-ZJ-00-1-00848
Anchor with plate B20 L= 160 mm	B20	1	pcs	1,500	AS-ZJ-00-0-19748
Anchor with plate B20 L= 280 mm	B20	1	pcs	1,900	AS-ZJ-00-1-00845

Hook anchor



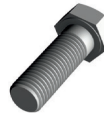
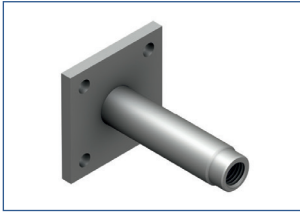
Symbol	Thread type	Dimensions		Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
		L [mm]	a [mm]				
Hook anchor B15 L=250 mm	B15	250	150	1	pcs	0,670	AS-ZJ-00-1-00183
Hook anchor B15 L=450 mm	B15	450	150	1	pcs	0,980	AS-ZJ-00-1-00184
Hook anchor B20 L=500 mm	B20	500	190	1	pcs	2,250	AS-ZJ-00-1-00185
Hook anchor B26,5 L=650 mm	B26,5	650	250	1	pcs	4,630	AS-ZJ-00-1-00186

Anchoring element B26,5

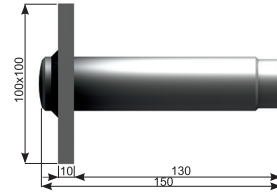


Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Anchoring element B26,5	1	pcs	1,320	AS-ZJ-00-0-00841

Anchoring element M24

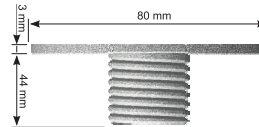
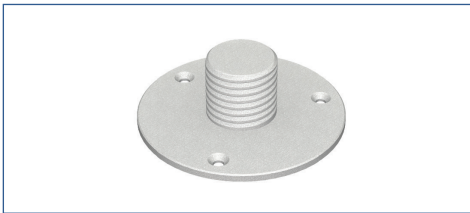


screw M24



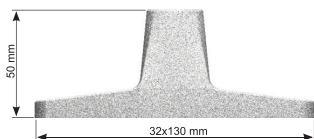
Symbol	Thread type	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Anchoring element M24	M24	1	pcs	1,300	AS-ZJ-00-0-00842
Screw M24 L=70 mm	M24	1	pcs	0,350	AS-ZJ-00-0-00860

Nailing grip M24



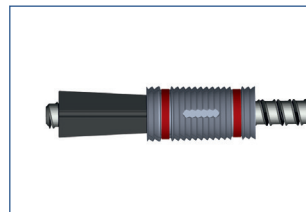
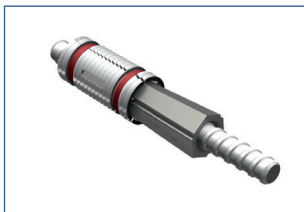
Symbol	Thread type	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Nailing grip M24 L=45 mm	M24	1	pcs	0,230	AS-ZJ-00-0-00866

Grip FORBOLD-F



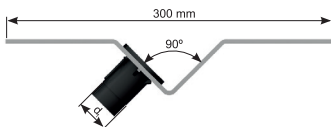
Symbol	Thread type	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Grip FORBOLD-F	B15	1	pcs	0,370	AS-ZJ-00-0-00867

Anchor B15



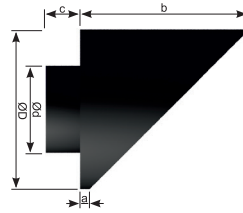
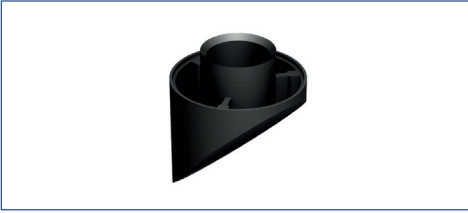
Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Anchor B15	50	pcs	0,275	AS-ZJ-00-0-00843

Grip V



Symbol	Thread type	Outer diameter d ₁ [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Grip V B15	B15	25	1	pcs	0,420	AS-ZJ-00-0-00868
Grip V B20	B20	32	1	pcs	0,420	AS-ZJ-00-0-00869
Grip V B26,5	B26,5	40	1	pcs	0,420	AS-ZJ-00-0-00870

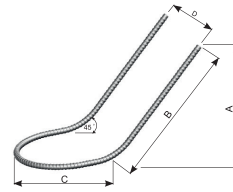
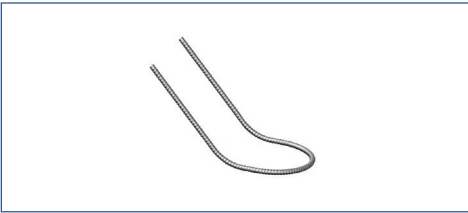
Cone plug FCB



Thread type	a [mm]	b [mm]	c [mm]	d [mm]	D [mm]
B15	5	70	14	30	65

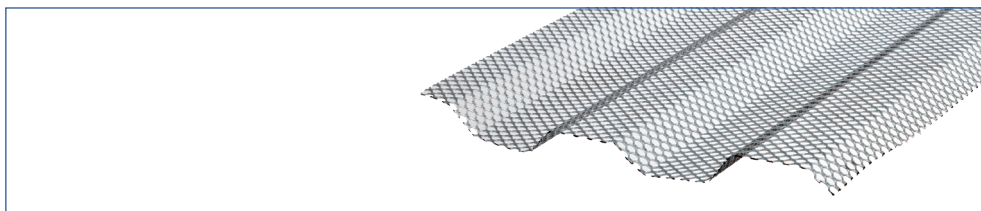
Symbol	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Cone plug FCB 45/B15	1	pcs	0,420	AS-ZJ-00-0-00872

Anchoring loop



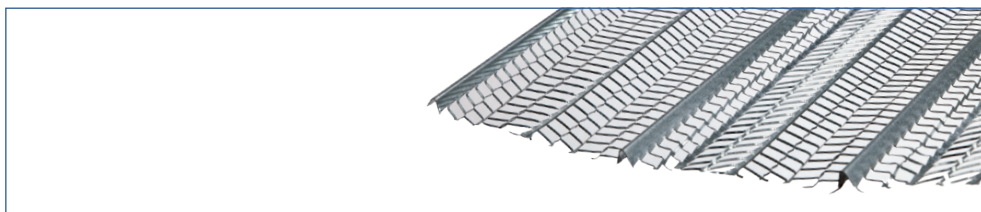
Symbol	Thread type	Dimensions				Breaking force [kN]	Calculation value per 1 rod [kN]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
		A	B	C	D						
Anchoring loop B15	B15	285	400	302	224	160	85	1	pcs	2,350	AS-ZJ-00-1-00187
Anchoring loop B20	B20	325	440	300	280	300	150	1	pcs	4,100	AS-ZJ-00-1-00188
Anchoring loop B26,5	B26,5	370	485	455	300	520	245	1	pcs	8,800	AS-ZJ-00-1-00189

Permanent shuttering STP



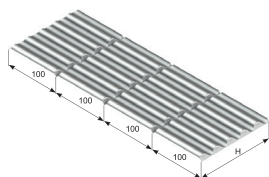
Symbol	Thickness [mm]	Dimensions		Package bunch [pcs]	Sale unit	Weight [kg/pcs]	Article no.
		width b [m]	length l [m]				
STP h = 1200 mm l = 2250	0,7	1,20	2,25	20	pcs	6,02	AS-TR-PR-1-00178
STP h = 1000 mm l = 2250	0,7	1,00	2,25	20	pcs	5,02	AS-TR-PR-1-00177

Permanent shuttering STC



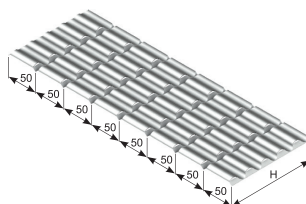
Symbol	Thickness [mm]	Dimensions		Package bunch [pcs]	Sale unit	Weight [kg/pcs]	Article no.
		width b [m]	length l [m]				
STC 0,25	0,25	0,60	2,50	20	pcs	1,32	AS-TR-PR-0-55482
STC 0,30	0,30	0,60	2,50	20	pcs	1,35	AS-TR-PR-0-00821
STC 0,45	0,45	0,60	2,50	20	pcs	2,60	AS-TR-PR-0-00822

System VARIO 100



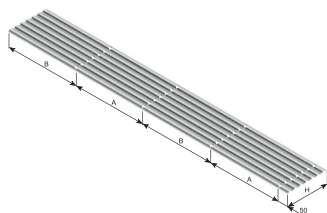
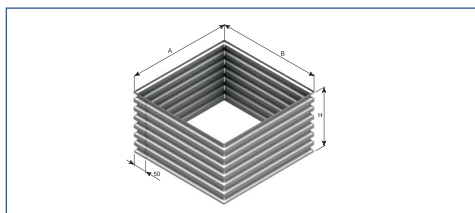
Symbol	Height H [mm]	Length L [mm]	Sale unit	Package [roll/pallet]	Weight [kg/roll]	Article no.
AS 600	600	4000	roll	18	11,28	AS-TR-KT-0-20156
AS 700	700	4000	roll	12	13,16	AS-TR-KT-0-20157
AS 800	800	4000	roll	12	15,04	AS-TR-KT-0-20158
AS 900	900	4000	roll	12	16,92	AS-TR-KT-0-20159

System VARIO 50 (with underseal)



Symbol	Height H [mm]	Length L [mm]	Sale unit	Package [roll/pallet]	Weight [kg/roll]	Article no.
AS 140	140	6000	roll	60	3,23	AS-TR-KT-0-20137
AS 180	180	6000	roll	48	4,15	AS-TR-KT-0-20138
AS 192	192	6000	roll	48	4,42	AS-TR-KT-0-20139
AS 210	210	6000	roll	42	4,84	AS-TR-KT-0-20140
AS 220	220	6000	roll	42	5,10	AS-TR-KT-0-20141
AS 235	235	6000	roll	42	5,41	AS-TR-KT-0-20142
AS 250	250	6000	roll	42	5,76	AS-TR-KT-0-20143
AS 260	260	6000	roll	36	6,00	AS-TR-KT-0-20144
AS 277	277	6000	roll	36	6,40	AS-TR-KT-0-20145
AS 305	305	6000	roll	36	7,03	AS-TR-KT-0-20146
AS 330	330	6000	roll	30	7,60	AS-TR-KT-0-20147
AS 355	355	6000	roll	30	8,18	AS-TR-KT-0-20148
AS 385	385	6000	roll	24	8,87	AS-TR-KT-0-20149
AS 415	415	6000	roll	24	9,56	AS-TR-KT-0-20150
AS 440	440	6000	roll	24	10,14	AS-TR-KT-0-20151
AS 470	470	6000	roll	18	10,83	AS-TR-KT-0-20152
AS 500	500	6000	roll	18	11,52	AS-TR-KT-0-20153
AS 525	525	6000	roll	18	12,10	AS-TR-KT-0-20154
AS 550	550	6000	roll	18	12,67	AS-TR-KT-0-20155

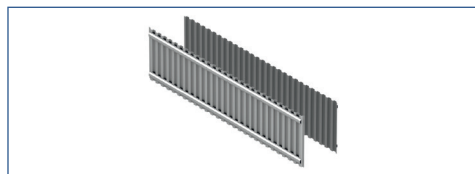
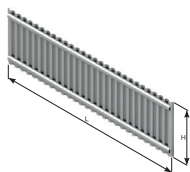
Formwork FKF and FKVF



Symbol	Thickness of plate [mm]	Height H [mm]	Length A [mm]	Sale unit	Package [m/pallet]	Weight [kg/m ²]	Article no.
FKF	0,50	max 1000	max 8000	m	80	3,60	-
FKVF	0,75	max 1000	max 8000	m	80	4,60	-

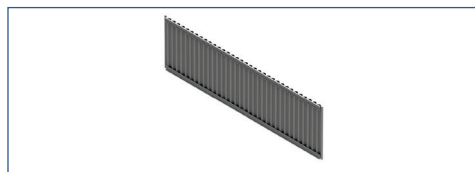
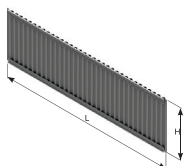
Comment: products on request, it is necessary to give dimensions A, B, H

System FS 2001



Symbol	Height H [mm]	Length L [mm]	Sale unit	Package [pcs/pallet]	Weight [kg/m ²]	Article no.
FS 2001	500 - 1000	3100	pcs	20	8	-
FS 2001 G	500 - 1000	3100	pcs	20	14	-

System FS 2001 light type



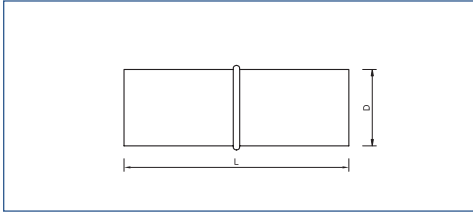
Symbol	Height H [mm]	Length L [mm]	Sale unit	Package [pcs/pallet]	Weight [kg/m ²]	Article no.
FS 2001 light type	500 - 1000	3500	pcs	20	5	-

Flexible pipe AR-FLEX

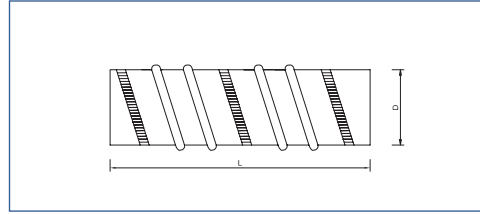


Symbol	Dimensions		Sale unit [3 m]	Package [pcs]	Weight [kg/pcs]	Article no.
	D [mm]	L [mm]				
AR-FLEX 40-3000	40	3000	pcs	1	1,11	AS-TR-RP-0-18998
AR-FLEX 50-3000	50	3000	pcs	1	1,41	AS-TR-RP-0-19045
AR-FLEX 60-3000	60	3000	pcs	1	1,65	AS-TR-RP-0-19001
AR-FLEX 65-3000	65	3000	pcs	1	1,80	AS-TR-RP-0-19003
AR-FLEX 70-3000	70	3000	pcs	1	1,95	AS-TR-RP-0-19009
AR-FLEX 80-3000	80	3000	pcs	1	2,19	AS-TR-RP-0-19014
AR-FLEX 90-3000	90	3000	pcs	1	2,40	AS-TR-RP-0-19018
AR-FLEX 100-3000	100	3000	pcs	1	2,70	AS-TR-RP-0-19021
AR-FLEX 120-3000	120	3000	pcs	1	3,15	AS-TR-RP-0-19022
AR-FLEX 135-3000	135	3000	pcs	1	3,48	AS-TR-RP-0-19023
AR-FLEX 150-3000	150	3000	pcs	1	3,96	AS-TR-RP-0-19025

Connector for AR-FLEX pipes



Internal connector SVR

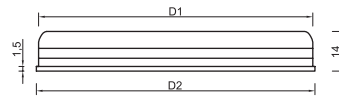


Outer connector ARZ

Symbol	Dimensions		Weight [kg/pcs]	Sale unit	Article no.
	D [mm]	L [mm]			
ARZ 40	45	250	0,10	pcs	AS-TR-RP-4-43053
ARZ 50	55	250	0,12	pcs	AS-TR-RP-4-43054
ARZ 60	65	250	0,14	pcs	AS-TR-RP-4-43055
ARZ 65	70	250	0,15	pcs	AS-TR-RP-4-43056
ARZ 70	75	250	0,16	pcs	AS-TR-RP-4-43057
ARZ 80	85	250	0,20	pcs	AS-TR-RP-4-43058
ARZ 90	95	250	0,23	pcs	AS-TR-RP-4-43059
SVR 100*	100	200	0,20	pcs	AS-TR-RP-4-43060
SVR 120*	120	200	0,30	pcs	AS-TR-RP-4-43061
SVR 135*	135	200	0,45	pcs	AS-TR-RP-4-43062
SVR 150*	150	200	0,55	pcs	AS-TR-RP-4-43063

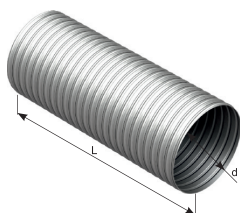
* - internal connector, possibility to connect AR-FLEX pipes with rigid pipes AR

Ending element for AR-FLEX



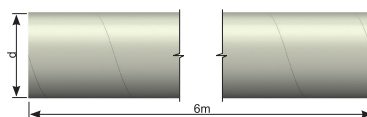
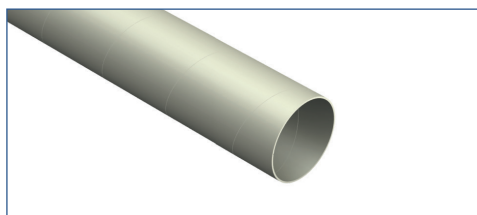
Symbol	Dimensions		Quantity in package [pcs/carton]	Article no.
	D1 [mm]	D2 [mm]		
ARDK 40	40	44	4000	AS-TR-RP-4-41748
ARDK 50	50	54	2500	AS-TR-RP-4-41749
ARDK 60	60	64	1750	AS-TR-RP-4-31244
ARDK 65	65	69	1000	AS-TR-RP-4-41750
ARDK 70	70	74	1000	AS-TR-RP-4-41751
ARDK 80	80	84	800	AS-TR-RP-4-41752
ARDK 100	100	104	500	AS-TR-RP-4-41753

Rigid pipe AR



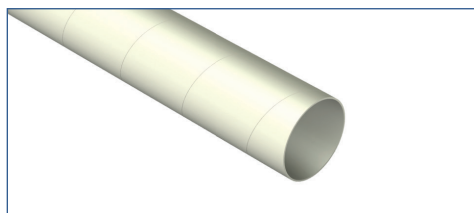
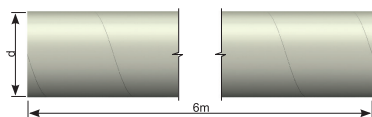
Symbol	Dimensions		Sale unit [3 m]	Package [pcs]	Weight [kg/ pcs]	Article no.
	D [mm]	L [mm]				
AR 180-3000	180	3000	pcs	1	6,30	AS-TR-RP-0-23274
AR 200-3000	200	3000	pcs	1	6,90	AS-TR-RP-0-23275
AR 250-3000	250	3000	pcs	1	8,70	AS-TR-RP-0-23276
AR 280-3000	280	3000	pcs	1	9,90	AS-TR-RP-0-23277
AR 300-3000	300	3000	pcs	1	10,5	AS-TR-RP-0-23278
AR 350-3000	350	3000	pcs	1	14,7	AS-TR-RP-0-23279
AR 400-3000	400	3000	pcs	1	16,8	AS-TR-RP-0-23280
AR 450-3000	450	3000	pcs	1	18,9	AS-TR-RP-0-23281
AR 500-3000	500	3000	pcs	1	21,0	AS-TR-RP-0-23282
AR 550-3000	550	3000	pcs	1	23,1	AS-TR-RP-0-23283
AR 600-3000	600	3000	pcs	1	25,2	AS-TR-RP-0-23284
AR 650-3000	650	3000	pcs	1	27,3	AS-TR-RP-0-23285
AR 700-3000	700	3000	pcs	1	29,4	AS-TR-RP-0-23286
AR 750-3000	750	3000	pcs	1	41,1	AS-TR-RP-0-23287
AR 800-3000	800	3000	pcs	1	43,8	AS-TR-RP-0-23288
AR 850-3000	850	3000	pcs	1	46,5	AS-TR-RP-0-23289
AR 900-3000	900	3000	pcs	1	49,2	AS-TR-RP-0-23290
AR 950-3000	950	3000	pcs	1	51,9	AS-TR-RP-0-23291
AR 1000-3000	1000	3000	pcs	1	67,2	AS-TR-RP-0-23292
AR 1050-3000	1050	3000	pcs	1	70,5	AS-TR-RP-0-23293
AR 1100-3000	1100	3000	pcs	1	73,8	AS-TR-RP-0-23294
AR 1150-3000	1150	3000	pcs	1	77,1	AS-TR-RP-0-23295
AR 1200-3000	1200	3000	pcs	1	98,4	AS-TR-RP-0-23296
AR 1250-3000	1250	3000	pcs	1	102,6	AS-TR-RP-0-23297
AR 1300-3000	1300	3000	pcs	1	106,8	AS-TR-RP-0-23298
AR 1400-3000	1400	3000	pcs	1	114,9	AS-TR-RP-0-23299
AR 1500-3000	1500	3000	pcs	1	123,3	AS-TR-RP-0-23300
AR 1600-3000	1600	3000	pcs	1	131,4	AS-TR-RP-0-23301
AR 1800-3000	1800	3000	pcs	1	147,9	AS-TR-RP-0-23302
AR 2000-3000	2000	3000	pcs	1	164,4	AS-TR-RP-0-23303

Cardboard formwork pipe - spiral



Symbol	Dimensions		Sale unit	Package [pcs]	Weight [kg/m]	Article no.
	Diameter [mm]	Standard length [m]				
Cardboard formwork pipe - spiral D152	152	3 4	m	pcs	1,3	AS-TR-KT-0-00798
Cardboard formwork pipe - spiral D202	202	3 4	m	pcs	1,7	AS-TR-KT-0-00799
Cardboard formwork pipe - spiral D250	250	3 4	m	pcs	2,1	AS-TR-KT-0-00800
Cardboard formwork pipe - spiral D300	300	3 4	m	pcs	2,5	AS-TR-KT-0-00801
Cardboard formwork pipe - spiral D350	350	3 4	m	pcs	3,6	AS-TR-KT-0-00802
Cardboard formwork pipe - spiral D400	400	3 4	m	pcs	4,1	AS-TR-KT-0-00803
Cardboard formwork pipe - spiral D450	450	3 4	m	pcs	4,6	AS-TR-KT-0-00804
Cardboard formwork pipe - spiral D500	500	3 4	m	pcs	5,1	AS-TR-KT-0-00805
Cardboard formwork pipe - spiral D550	550	3 4	m	pcs	6,3	AS-TR-KT-0-00806
Cardboard formwork pipe - spiral D600	600	3 4	m	pcs	6,9	AS-TR-KT-0-00807
Cardboard formwork pipe - spiral D650	650	3 4	m	pcs	7,5	AS-TR-KT-0-00808
Cardboard formwork pipe - spiral D700	700	3 4	m	pcs	8,0	AS-TR-KT-0-00809
Cardboard formwork pipe - spiral D750	750	3 4	m	pcs	8,5	AS-TR-KT-0-00810
Cardboard formwork pipe - spiral D800	800	3 4	m	pcs	9,3	AS-TR-KT-0-00811
Cardboard formwork pipe - spiral D900	900	3 4	m	pcs	10,5	AS-TR-KT-0-00812
Cardboard formwork pipe - spiral D1000	1000	3 4	m	pcs	11,5	AS-TR-KT-0-00796
Cardboard formwork pipe - spiral D1200	1200	3 4	m	pcs	13,7	AS-TR-KT-0-00797

Cardboard formwork pipe - smooth



Symbol	Dimensions			Sale unit	Package [pcs]	Weight [kg/m]	Article no.
	Diameter [mm]	Standard length [m]					
Cardboard formwork pipe - smooth D202	202	3	4	m	pcs	1,7	AS-TR-KT-0-00782
Cardboard formwork pipe - smooth D250	250	3	4	m	pcs	2,1	AS-TR-KT-0-00783
Cardboard formwork pipe - smooth D300	300	3	4	m	pcs	2,5	AS-TR-KT-0-00784
Cardboard formwork pipe - smooth D350	350	3	4	m	pcs	3,6	AS-TR-KT-0-00785
Cardboard formwork pipe - smooth D400	400	3	4	m	pcs	4,1	AS-TR-KT-0-00786
Cardboard formwork pipe - smooth D450	450	3	4	m	pcs	4,6	AS-TR-KT-0-00787
Cardboard formwork pipe - smooth D500	500	3	4	m	pcs	5,1	AS-TR-KT-0-00788
Cardboard formwork pipe - smooth D550	550	3	4	m	pcs	6,3	AS-TR-KT-0-00789
Cardboard formwork pipe - smooth D600	600	3	4	m	pcs	6,9	AS-TR-KT-0-00790
Cardboard formwork pipe - smooth D650	650	3	4	m	pcs	7,5	AS-TR-KT-0-00791
Cardboard formwork pipe - smooth D700	700	3	4	m	pcs	8,0	AS-TR-KT-0-00792
Cardboard formwork pipe - smooth D750	750	3	4	m	pcs	8,5	AS-TR-KT-0-00793
Cardboard formwork pipe - smooth D800	800	3	4	m	pcs	9,3	AS-TR-KT-0-00794
Cardboard formwork pipe - smooth D900	900	3	4	m	pcs	10,5	AS-TR-KT-0-00795
Cardboard formwork pipe - smooth D1000	1000	3	4	m	pcs	11,5	AS-TR-KT-0-00781

Fluid sprayer



Symbol	Working capacity [l]	Max. working pressure [MPa]	Package	Weight [kg/pcs]	Sale unit	Article no.
Plastic sprayer	6	0,35	carton	1,7	pcs	NA-NA-00-4-04833
Metal sprayer Gloria	5	0,60	bag	4,8	pcs	CH-AC-00-0-02684

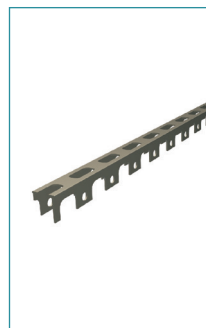
Distance pads and accessories

Distance pads are used in order to provide proper cover of concrete for rebars. Pads are used in reinforced structures, construction elements and it significantly increase stability of whole structure. We offer full range of concrete, steel, plastic pads and many accessories usefull during steel fixing works.

Plastic line spacer TRICK

Symbol	Concrete cover [mm]	Package bunch/pallet [m]	Sale unit	Weight [kg/100 m]	Article no.
TRICK 15	15	100/7000	bunch	13,0	PA-PD-TS-0-01331
TRICK 20	20	100/6300	bunch	15,0	PA-PD-TS-0-01332
TRICK 25	25	100/4900	bunch	16,0	PA-PD-TS-0-01333
TRICK 30	30	100/4200	bunch	17,0	PA-PD-TS-0-01334
TRICK 35	35	60/3780	bunch	22,0	PA-PD-TS-0-01335
TRICK 40	40	60/2400	bunch	28,4	PA-PD-TS-0-01336
TRICK 50	50	60/1680	bunch	37,0	PA-PD-TS-0-01337

Total length of spacer - 2 m.



Plastic line spacer SUPER TRICK

Symbol	Concrete cover [mm]	Package bunch/pallet [m]	Sale unit	Weight [kg/100 m]	Article no.
SUPER TRICK 15	15	100/5000	bunch	5,4	PA-PD-TS-0-01321
SUPER TRICK 20	20	100/5000	bunch	8,4	PA-PD-TS-0-01323
SUPER TRICK 25	25	100/5000	bunch	9,3	PA-PD-TS-0-01324
SUPER TRICK 30	30	100/5000	bunch	11,5	PA-PD-TS-0-01325
SUPER TRICK 35	35	80/3200	bunch	15,0	PA-PD-TS-0-01326
SUPER TRICK 40	40	80/3200	bunch	16,7	PA-PD-TS-0-01327
SUPER TRICK 45	45	80/3200	bunch	19,2	PA-PD-TS-0-01328
SUPER TRICK 50	50	80/3840	bunch	21,7	PA-PD-TS-0-01329
SUPER TRICK 60	60	82/3280	bunch	26,7	PA-PD-TS-0-01330

Total length of spacer - 2 m (exception SUPER TRICK 60 - length 2,05 m).



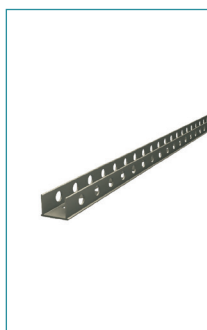
Plastic line spacer FOR-TRICK



Symbol	Concrete cover [mm]	Package bunch/pallet [m]	Sale unit	Weight [kg/100 m]	Article no.
FOR-TRICK 20	20	50/4000	bunch	11,5	PA-PD-TS-0-56416
FOR-TRICK 25	25	50/3200	bunch	13,4	PA-PD-TS-0-56417
FOR-TRICK 30	30	50/2800	bunch	14,3	PA-PD-TS-0-56418
FOR-TRICK 35	35	50/2800	bunch	14,7	PA-PD-TS-0-56419
FOR-TRICK 40	40	50/2000	bunch	17,7	PA-PD-TS-0-56420
FOR-TRICK 50	50	50/1600	bunch	19,3	PA-PD-TS-0-56421

Possibility to connect spacers along and across.
Length of one segment is 1 m.

Plastic line spacer ISO-TRICK

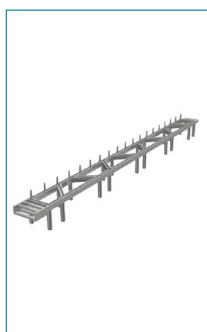


Symbol	Concrete cover [mm]	Package bunch/pallet [m]	Sale unit	Weight [kg/100 m]	Article no.
ISO-TRICK 15	15	100/7000	pallet	14,0	PA-PD-TS-0-01290
ISO-TRICK 20	20	100/6300	pallet	17,0	PA-PD-TS-0-01291
ISO-TRICK 25	25	100/4900	pallet	18,0	PA-PD-TS-0-01292
ISO-TRICK 30	30	100/4200	pallet	21,0	PA-PD-TS-0-01293
ISO-TRICK 35	35	60/3780	pallet	29,0	PA-PD-TS-0-01294
ISO-TRICK 40	40	60/2400	pallet	34,9	PA-PD-TS-0-01295
ISO-TRICK 50	50	60/1680	pallet	49,5	PA-PD-TS-0-01296

Total length of spacer - 2 m.

Plastic line spacer DST

for prefabrication



Symbol	Concrete cover [mm]	Package bunch/pallet [m]	Sale unit	Weight [kg/100 m]	Article no.
DST 15	15	250/4500	bunch	8,6	PR-PD-00-0-01724
DST 20	20	250/4500	bunch	9,0	PR-PD-00-0-01725
DST 25	25	250/3750	bunch	9,2	PR-PD-00-0-01726
DST 30	30	250/3000	bunch	9,6	PR-PD-00-0-01727
DST 35	35	250/3000	bunch	10,0	PR-PD-00-0-01728
DST 40	40	250/2250	bunch	10,6	PR-PD-00-0-01729
DST 45	45	250/2250	bunch	10,8	PR-PD-00-0-01730
DST 50	50	250/1875	bunch	11,2	PR-PD-00-0-01732

Length of one segment is 485 mm.

Plastic point spacer RAS for prefabrication

Symbol	Concrete cover [mm]	Package bag/pallet [pcs]	Sale unit	Weight [kg/100 pcs]	Article no.
RAS 15	15	300/12000	bag	19,6	PR-PD-00-0-05770
RAS 20	20	300/12000	bag	19,9	PR-PD-00-0-01055
RAS 25	25	300/12000	bag	20,2	PR-PD-00-0-05771
RAS 30	30	300/12000	bag	20,5	PR-PD-00-0-05772
RAS 35	35	300/9000	bag	20,8	PR-PD-00-0-05773



Segment diameters:
180, 207,
234, 261,
288, 315 mm.

Assembling plate for prefabrication

Symbol	Thickness [mm]	Package bag [pcs]	Sale unit	Weight [kg/100 pcs]	Article no.
MP 2	2	250	bag	1,083	PR-PM-00-0-01735
MP 3	3	250	bag	1,588	PR-PM-00-0-01737
MP 5	5	125	bag	2,646	PR-PM-00-0-01738
MP 7	7	125	bag	3,704	PR-PM-00-0-01739
MP 8	8	125	bag	4,763	PR-PM-00-0-01740
MP 9	9	125	bag	5,292	PR-PM-00-0-01741
MP 10	10	125	bag	5,292	PR-PM-00-0-01733
MP 15	15	50	bag	7,965	PR-PM-00-0-01734
MP 20	20	50	bag	10,584	PR-PM-00-0-01736



Plates dimensions:
70 x 70 mm

Permitted load of plate:
7 000 kg

Plastic point spacer TURM

Symbol	Rebar diameter Φ [mm]	Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/100 pcs]	Article no.
TURM 20/6-20S	6-20	20	500	bag	1,20	PA-PD-TS-0-01338
TURM 25/6-20S	6-20	25	500	bag	1,50	PA-PD-TS-0-01339
TURM 30/6-20S	6-20	30	500	bag	3,00	PA-PD-TS-0-01340
TURM 35/6-20S	6-20	35	500	bag	3,20	PA-PD-TS-0-29247
TURM 40/6-20S	6-20	40	400	bag	3,50	PA-PD-TS-0-29248
TURM 50/6-20S	6-20	50	375	bag	3,00	PA-PD-TS-0-01059
TURM 20/6-20F	6-20	20	500	bag	1,20	PA-PD-TS-0-48526
TURM 25/6-20F	6-20	25	500	bag	1,50	PA-PD-TS-0-48527
TURM 30/6-20F	6-20	30	500	bag	3,00	PA-PD-TS-0-31910
TURM 35/6-20F	6-20	35	500	bag	3,20	PA-PD-TS-0-48528
TURM 40/6-20F	6-20	40	400	bag	3,50	PA-PD-TS-0-48529
TURM 50/6-20F	6-20	50	400	bag	3,50	PA-PD-TS-0-29249



TURM S



TURM F

Plastic point spacer BARYŁKA

Symbol	Rebar diameter Φ [mm]	Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/100 pcs]	Article no.
BARYŁKA 15	6-16	15	500	bag	4,20	PA-PD-TS-0-01310
BARYŁKA 20	6-16	20	500	bag	4,30	PA-PD-TS-0-01311
BARYŁKA 25	6-16	25	500	bag	4,40	PA-PD-TS-0-01313
BARYŁKA 30	6-16	30	500	bag	4,90	PA-PD-TS-0-01314



Plastic point spacer FIX



Symbol	Rebar diameter Φ [mm]	Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/1000 pcs]	Article no.
FIX 15	4-16	15	1000	bag	4,00	PA-PD-TS-0-01297
FIX 20	4-16	20	500	bag	5,00	PA-PD-TS-0-01299
FIX 25	4-16	25	500	bag	5,70	PA-PD-TS-0-01300
FIX 30	4-16	30	250	bag	6,60	PA-PD-TS-0-01302
FIX 35	4-16	35	250	bag	7,30	PA-PD-TS-0-01303
FIX 40	4-16	40	250	bag	8,20	PA-PD-TS-0-01304
FIX 45	4-16	45	125	bag	9,20	PA-PD-TS-0-01298
FIX 50	4-16	50	125	bag	10,40	PA-PD-TS-0-01306

Plastic point spacer KOŚĆ



Symbol	Rebar diameter [mm]	Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
KOŚĆ 15/20/25	6-14	15/20/25	500	bag	2,72	PA-PD-TS-0-01309
KOŚĆ 20/25/30/35	6-14	20/25/30/35	500	bag	6,76	PA-PD-TS-0-01312
KOŚĆ 20/25/30	6-14	20/25/30	500	bag	4,08	PA-PD-TS-0-16870

Plastic point spacer PADIX



Symbol	Rebar diameter Φ [mm]	Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/100 pcs]	Article no.
PADIX 15/4-10	4-10	15	1000	bag	0,24	PA-PD-TS-0-01250
PADIX 20/4-12	4-12	20	500	bag	0,43	PA-PD-TS-0-01254
PADIX 20/6-20	6-20	20	250	bag	0,75	PA-PD-TS-0-01256
PADIX 25/4-12	4-12	25	500	bag	0,62	PA-PD-TS-0-01260
PADIX 25/6-20	6-20	25	250	bag	0,85	PA-PD-TS-0-01262
PADIX 25/8-16	8-16	25	500	bag	0,85	PA-PD-TS-0-01263
PADIX 30/4-12	4-12	30	500	bag	0,90	PA-PD-TS-0-01266
PADIX 30/6-20	6-20	30	125	bag	1,40	PA-PD-TS-0-01268
PADIX 35/4-16	4-16	35	250	bag	1,04	PA-PD-TS-0-01272
PADIX 35/6-20	6-20	35	125	bag	1,800	PA-PD-TS-0-01274
PADIX 40/4-12	4-12	40	125	bag	1,670	PA-PD-TS-0-01275
PADIX 40/5-20	5-20	40	250	bag	1,870	PA-PD-TS-0-01281
PADIX 50/4-12	4-12	50	100	bag	2,280	PA-PD-TS-0-01283
PADIX 50/8-20	8-20	50	50	bag	2,360	PA-PD-TS-0-01286
PADIX 50/8-20	8-20	50	250	bag	2,360	PA-PD-TS-0-06231

Plastic point spacer STYROFIX

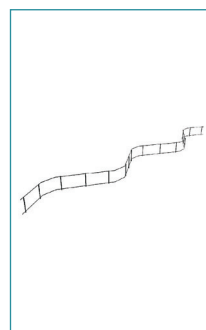
Symbol	Rebar diameter Φ [mm]	Concrete cover [mm]	Package bag [pcs]	Sale unit	Weight [kg/100 pcs]	Article no.
STYROFIX 15/20	8-16	15/20	500	bag	1,10	PA-PD-TS-0-01315
STYROFIX 25/30	8-16	25/30	400	bag	1,30	PA-PD-TS-0-01316
STYROFIX 40/50	6-16	40/50	200	bag	2,20	PA-PD-TS-0-01317
STYROFIX 50/60	6-16	50/60	200	bag	2,50	PA-PD-TS-0-01318
STYROFIX 70/80	8-16	70/80	200	bag	3,50	PA-PD-TS-0-01319
STYROFIX 90/100	8-16	90/100	100	bag	4,70	PA-PD-TS-0-01320



Steel line spacer ZET

Spacer ZET is made of cold ribbed steel. Diameter of rods is 3,5mm (there is possibility to produce using diameter 4 or 5 mm on request). Spacing between vertical rods depends on spacer type and it amounts to ZET 1 = 150 mm, ZET 2 = 100 mm. Length of horizontal rods is 2400 mm. Total length of one piece of spacer is 2000 mm.

Symbol	Height [mm]	Package bunch/pallet [pcs]	Sale unit	Weight [kg/pcs]	Article no.
ZET-S 1-5	50	25/1000	bunch	0,180	PA-PD-ST-1-07084
ZET-S 2-5	50	25/1000	bunch	0,192	PA-PD-ST-1-07085
ZET-S 1-6	60	25/1000	bunch	0,182	PA-PD-ST-1-07086
ZET-S 2-6	60	25/1000	bunch	0,196	PA-PD-ST-1-07087
ZET-S 1-7	70	25/1000	bunch	0,187	PA-PD-ST-1-07088
ZET-S 2-7	70	25/1000	bunch	0,204	PA-PD-ST-1-07089
ZET-S 1-8	80	25/1000	bunch	0,192	PA-PD-ST-1-07090
ZET-S 2-8	80	25/1000	bunch	0,212	PA-PD-ST-1-07091
ZET-S 1-9	90	25/1000	bunch	0,197	PA-PD-ST-1-07092
ZET-S 2-9	90	25/1000	bunch	0,219	PA-PD-ST-1-07093
ZET-S 1-10	100	25/500	bunch	0,202	PA-PD-ST-1-07094
ZET-S 2-10	100	25/500	bunch	0,227	PA-PD-ST-1-07095
ZET-S 1-11	110	25/500	bunch	0,207	PA-PD-ST-1-07096
ZET-S 2-11	110	25/500	bunch	0,235	PA-PD-ST-1-07097
ZET-S 1-12	120	25/500	bunch	0,213	PA-PD-ST-1-07098
ZET-S 2-12	120	25/500	bunch	0,242	PA-PD-ST-1-07099
ZET-S 1-13	130	25/500	bunch	0,218	PA-PD-ST-1-07100
ZET-S 2-13	130	25/500	bunch	0,250	PA-PD-ST-1-07101
ZET-S 1-14	140	25/500	bunch	0,223	PA-PD-ST-1-07108
ZET-S 2-14	140	25/500	bunch	0,257	PA-PD-ST-1-07109
ZET-S 1-15	150	25/500	bunch	0,228	PA-PD-ST-1-07110
ZET-S 2-15	150	25/500	bunch	0,265	PA-PD-ST-1-07111
ZET-S 1-16	160	25/500	bunch	0,233	PA-PD-ST-1-07112
ZET-S 2-16	160	25/500	bunch	0,273	PA-PD-ST-1-07113
ZET-S 1-17	170	25/500	bunch	0,238	PA-PD-ST-1-07114
ZET-S 2-17	170	25/500	bunch	0,281	PA-PD-ST-1-07115



Symbol	Height [mm]	Package bunch/pallet [pcs]	Sale unit	Weight [kg/pcs]	Article no.
ZET-S 1-18	180	25/500	bunch	0,243	PA-PD-ST-1-07116
ZET-S 2-18	180	25/500	bunch	0,288	PA-PD-ST-1-07117
ZET-S 1-19	190	25/500	bunch	0,249	PA-PD-ST-1-07118
ZET-S 2-19	190	25/500	bunch	0,296	PA-PD-ST-1-07119
ZET-S 1-20	200	25/500	bunch	0,254	PA-PD-ST-1-07120
ZET-S 2-20	200	25/500	bunch	0,304	PA-PD-ST-1-07121
ZET-S 1-21	210	25/500	bunch	0,272	PA-PD-ST-0-07122
ZET-S 2-21	210	25/500	bunch	0,311	PA-PD-ST-1-07123
ZET-S 1-22	220	25/300	bunch	0,278	PA-PD-ST-1-07124
ZET-S 2-22	220	25/300	bunch	0,319	PA-PD-ST-1-07125
ZET-S 1-23	230	25/300	bunch	0,284	PA-PD-ST-1-07126
ZET-S 2-23	230	25/300	bunch	0,327	PA-PD-ST-1-07127
ZET-S 1-24	240	25/300	bunch	0,289	PA-PD-ST-1-07128
ZET-S 2-24	240	25/300	bunch	0,335	PA-PD-ST-1-07129
ZET-S 1-25	250	25/300	bunch	0,295	PA-PD-ST-1-07130
ZET-S 2-25	250	25/300	bunch	0,342	PA-PD-ST-1-07131
ZET-S 1-26	260	25/300	bunch	0,317	PA-PD-ST-1-07132
ZET-S 2-26	260	25/300	bunch	0,350	PA-PD-ST-1-07133
ZET-S 1-27	270	25/300	bunch	0,324	PA-PD-ST-1-07134
ZET-S 2-27	270	25/300	bunch	0,357	PA-PD-ST-1-07135
ZET-S 1-28	280	25/300	bunch	0,330	PA-PD-ST-1-07136
ZET-S 2-28	280	25/300	bunch	0,365	PA-PD-ST-1-07137
ZET-S 1-29	290	25/300	bunch	0,336	PA-PD-ST-1-07138
ZET-S 2-29	290	25/300	bunch	0,373	PA-PD-ST-1-07139
ZET-S 1-30	300	25/300	bunch	0,343	PA-PD-ST-1-07140
ZET-S 2-30	300	25/300	bunch	0,381	PA-PD-ST-1-07141

Concrete line spacer FB-DH

Concrete spacer made of squeezed fibre-reinforced concrete. It has isosceles triangular cross section with galvanised wire. It is used for vertical reinforcing. It provides full concrete cover for all steel elements and it guarantees waterproof and fireproof class for whole structure.



Symbol	Lenght [mm]	Concrete cover [mm]	Quantity in the bag [pcs]	Sale unit	Weight [kg/bag]	Article no.
FB-DH 25 L=270 mm	270	25	60	bag	9,5	PA-PD-BN-4-44180
FB-DH 30 L=270 mm	270	30	60	bag	13,6	PA-PD-BN-4-44182
FB-DH 35 L=270 mm	270	35	50	bag	16,3	PA-PD-BN-4-44183
FB-DH 40 L=270 mm	270	40	40	bag	19,0	PA-PD-BN-4-44184
FB-DH 45 L=270 mm	270	45	40	bag	20,0	PA-PD-BN-4-44185
FB-DH 50 L=270 mm	270	50	40	bag	24,4	PA-PD-BN-4-44186
FB-DH 55 L=270 mm	270	55	40	bag	29,0	PA-PD-BN-4-44187
FB-DH 60 L=270 mm	270	60	40	bag	32,7	PA-PD-BN-4-44188

Concrete line spacer FB-D

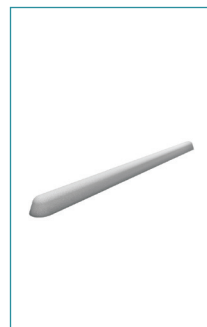
Concrete spacer made of squeezed fibre-reinforced concrete. It has isosceles triangular cross section for heavy horizontal reinforcing steel. It provides stable thickness of concrete cover. It guarantees waterproof and fireproof class for whole structure.

Symbol	Length [mm]	Concrete cover [mm]	Quantity per pallet [pcs]	Sale unit	Weight [kg/pallet]	Article no.
FB-D 20 L=400 mm	400	20	500	pallet	176	PA-PD-BN-4-44170
FB-D 25 L=400 mm	400	25	500	pallet	206	PA-PD-BN-4-44171
FB-D 30 L=400 mm	400	30	350	pallet	175	PA-PD-BN-4-44172
FB-D 35 L=400 mm	400	35	300	pallet	212	PA-PD-BN-4-44173
FB-D 40 L=400 mm	400	40	250	pallet	217	PA-PD-BN-4-44174
FB-D 45 L=400 mm	400	45	250	pallet	277	PA-PD-BN-4-44175
FB-D 50 L=400 mm	400	50	200	pallet	267	PA-PD-BN-4-44176
FB-D 55 L=400 mm	400	55	200	pallet	336	PA-PD-BN-4-44177
FB-D 60 L=400 mm	400	60	200	pallet	404	PA-PD-BN-4-44178
FB-D 70 L=400 mm	400	70	100	pallet	275	PA-PD-BN-4-44179



Concrete line spacer BK

Symbol	Length [mm]	Concrete cover [mm]	Quantity per pallet [pcs]	Sale unit	Weight [kg/pallet]	Article no.
BK 20 L=250 mm	250	20	5160	pallet	1042	PA-PD-BN-0-01115
BK 20 L=500 mm	500	20	2580	pallet	1042	PA-PD-BN-0-01118
BK 25 L=250 mm	250	25	3750	pallet	987	PA-PD-BN-0-01120
BK 25 L=500 mm	500	25	1875	pallet	987	PA-PD-BN-0-01123
BK 30 L=250 mm	250	30	2800	pallet	984	PA-PD-BN-0-01125
BK 30 L=500 mm	500	30	1400	pallet	984	PA-PD-BN-0-01127
BK 40 L=250 mm	250	40	1850	pallet	925	PA-PD-BN-0-01130
BK 40 L=500 mm	500	40	925	pallet	925	PA-PD-BN-0-01132
BK 45 L=250 mm	250	45	1620	pallet	980	PA-PD-BN-0-01134
BK 45 L=500 mm	500	45	810	pallet	980	PA-PD-BN-0-01136
BK 50 L=250 mm	250	50	1300	pallet	962	PA-PD-BN-0-01138
BK 50 L=500 mm	500	50	650	pallet	962	PA-PD-BN-0-01140
BK 55 L=500 mm	500	55	590	pallet	970	PA-PD-BN-0-01144
BK 60 L=250 mm	250	60	1000	pallet	950	PA-PD-BN-0-01145
BK 60 L=500 mm	500	60	500	pallet	950	PA-PD-BN-0-01147
BK 70 L=250 mm	250	70	740	pallet	851	PA-PD-BN-0-01150
BK 70 L=500 mm	500	70	370	pallet	851	PA-PD-BN-0-01152
BK 70 L=1200 mm	1200	70	150	pallet	620	PA-PD-BN-0-01149

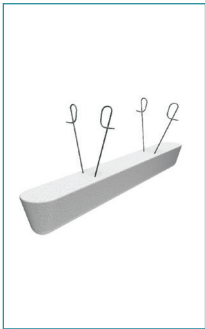


Concrete line spacer BK Z



Symbol	Length [mm]	Concrete cover [mm]	Quantity per pallet [pcs]	Sale unit	Weight [kg/pallet.]	Article no.
BK Z 25 L=800 mm	800	25	1200	pallet	900	PA-PD-BN-0-01110
BK Z 30 L=800 mm	800	30	750	pallet	898	PA-PD-BN-0-01111
BK Z 40 L=800 mm	800	40	500	pallet	833	PA-PD-BN-0-01112
BK Z 50 L=800 mm	800	50	400	pallet	860	PA-PD-BN-0-01113
BK Z 70 L=800 mm	800	70	250	pallet	900	PA-PD-BN-0-01114

Concrete line spacer BK-d



Symbol	Length [mm]	Concrete cover [mm]	Quantity on the pallet [pcs]	Sale unit	Weight [kg/pallet]	Article no.
BK-d 20 L=250 mm	250	20	5160	pallet	1050	PA-PD-BN-0-01116
BK-d 20 L=500 mm	500	20	2580	pallet	1050	PA-PD-BN-0-01119
BK-d 25 L=250 mm	250	25	3750	pallet	990	PA-PD-BN-0-01121
BK-d 25 L=500 mm	500	25	1875	pallet	990	PA-PD-BN-0-01124
BK-d 30 L=250 mm	250	30	2800	pallet	990	PA-PD-BN-0-01126
BK-d 30 L=500 mm	500	30	1400	pallet	990	PA-PD-BN-0-01128
BK-d 40 L=250 mm	250	40	1850	pallet	932	PA-PD-BN-0-01131
BK-d 40 L=500 mm	500	40	925	pallet	936	PA-PD-BN-0-01133
BK-d 45 L=250 mm	250	45	1620	pallet	990	PA-PD-BN-0-01135
BK-d 45 L=500 mm	500	45	810	pallet	990	PA-PD-BN-0-01137
BK-d 50 L=250 mm	250	50	1300	pallet	967	PA-PD-BN-0-01139
BK-d 50 L=500 mm	500	50	650	pallet	970	PA-PD-BN-0-01143
BK-d 60 L=250 mm	250	60	1000	pallet	954	PA-PD-BN-0-01146
BK-d 60 L=500 mm	500	60	500	pallet	956	PA-PD-BN-0-01148
BK-d 70 L=250 mm	250	70	740	pallet	854	PA-PD-BN-0-01151
BK-d 70 L=500 mm	500	70	370	pallet	855	PA-PD-BN-0-01155

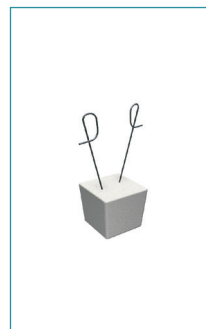
Concrete point spacer BK PS



Symbol	Concrete cover [mm]	Quantity in the bag [pcs]	Number of bags on a pallet	Sale unit	Weight [kg/package]	Article no.
BK PS 20	20	800	35	pallet	10,00	PA-PD-BN-0-01061
BK PS 25	25	600	35	pallet	12,10	PA-PD-BN-0-01063
BK PS 30	30	500	35	pallet	14,25	PA-PD-BN-0-01065
BK PS 35	35	250	35	pallet	14,38	PA-PD-BN-0-01066
BK PS 40	40	250	35	pallet	20,00	PA-PD-BN-0-01067
BK PS 50	50	200	35	pallet	26,00	PA-PD-BN-0-01068
BK PS 60	60	100	50	pallet	12,70	PA-PD-BN-0-01069
BK PS 70	70	100	50	pallet	15,10	PA-PD-BN-0-01070

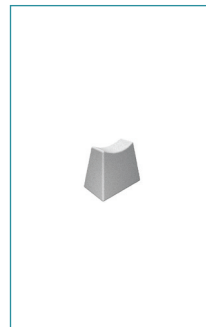
Concrete point spacer BK T-d

Symbol	Concrete cover [mm]	Quantity in the bag [pcs]	Number of bags on a pallet	Sale unit	Weight [kg/bag]	Article no.
BK T-d 20	20	300	60	bag	16,00	PA-PD-BN-0-01076
BK T-d 25	25	300	60	bag	17,00	PA-PD-BN-0-40189
BK T-d 30	30	250	55	bag	17,00	PA-PD-BN-0-01087
BK T-d 35	35	250	45	bag	20,00	PA-PD-BN-0-01090
BK T-d 40	40	250	40	bag	23,00	PA-PD-BN-0-01094
BK T-d 50	50	150	40	bag	26,00	PA-PD-BN-0-01097



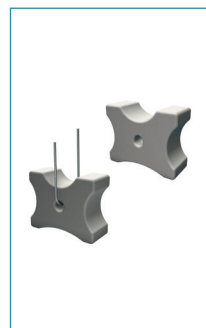
Concrete point spacer BK T

Symbol	Concrete cover [mm]	Quantity in the bag [pcs]	Number of bags on a pallet	Sale unit	Weight [kg/bag]	Article no.
BK T 20	20	800	35	bag	24,00	PA-PD-BN-0-01074
BK T 25	25	600	35	bag	21,00	PA-PD-BN-0-01080
BK T 30	30	500	35	bag	25,00	PA-PD-BN-0-01086
BK T 35	35	250	35	bag	21,00	PA-PD-BN-0-20160
BK T 40	40	250	35	bag	25,00	PA-PD-BN-0-01092
BK T 50	50	200	35	bag	30,00	PA-PD-BN-0-01096
BK T 70	70	100	35	bag	30,00	PA-PD-BN-0-01101



Concrete point spacer FB-d Kość

Symbol	Concrete cover [mm]	Quantity in the bag [pcs]	Number of bags on a pallet	Sale unit	Weight [kg/bag]	Article no.
FB Kość 20/25/30	20/25/30	500	50	bag	18,0	PA-PD-BN-0-01102
FB-d Kość 20/25/30	20/25/30	500	50	bag	19,0	PA-PD-BN-0-01104
FB Kość 35/40/50	35/40/50	250	40	bag	26,5	PA-PD-BN-0-01106
FB-d Kość 35/40/50	35/40/50	250	40	bag	27,5	PA-PD-BN-0-01107
FB Kość 45/55/60	45/55/60	125	40	bag	29,0	PA-PD-BN-0-01108
FB-d Kość 45/55/60	45/55/60	125	40	bag	30,0	PA-PD-BN-0-01109



Tying wire



Symbol	Wire diameter [mm]	Package	Sale unit	Weight [kg/package]	Article no.
Tying wire 1,2 mm coils	1,2	coils	kg	ca. 20÷50	PA-AZ-00-0-01036
Tying wire 1,4 mm coils	1,4	coils	kg	ca. 20÷50	PA-AZ-00-0-01041
Tying wire 1,6 mm coils	1,6	coils	kg	ca. 100	PA-AZ-00-0-01045
Tying wire 1,2 mm hanks	1,2	bag	kg	25	PA-AZ-00-0-01039
Tying wire 1,4 mm hanks	1,4	bag	kg	25	PA-AZ-00-0-01043
Tying wire 1,6 mm hanks	1,6	bag	kg	25	PA-AZ-00-0-01046

Self torsion wrench for reinforcement fixing STUBAI



Symbol	Lenght [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Self torsion wrench STUBAI	320	1	pcs	0,425	NA-NA-00-0-04708

Self turning wrench for reinforcement fixing STUBAI



Symbol	Lenght [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Self turning wrench STUBAI	300	1	pcs	0,140	NA-NA-00-0-04722

Pincers for reinforcement STUBAI

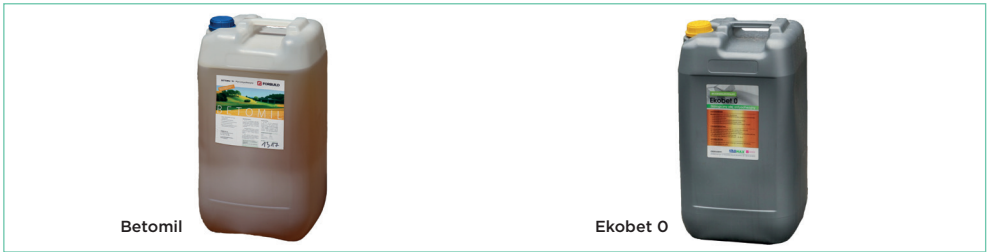


Symbol	Lenght [mm]	Package [pcs]	Sale unit	Weight [kg/pcs]	Article no.
Pincers for reinforcement STUBAI	300	1	pcs	0,505	NA-NA-00-0-04675

Chemicals for concrete

Forbuild offers high quality anti-adhesive agents for formworks which provide smooth surfaces without damages and stains, impregnants creating stable layer on concrete surface protecting against water and dirt, polypropylene fiber for concrete reinforcement reducing concrete shrinkage cracks.

Anti-adhesive liquids



Betomil

Ekobet 0

Symbol	Package	Sale unit [l]	Article no.
BETOMIL I-30	canister	30	CH-AA-00-4-10509
BETOMIL I-200	barrel	200	CH-AA-00-4-10397
BETOMIL I-1000	container	1000	CH-AA-00-4-37402
BETOMIL II-30	canister	30	CH-AA-00-4-37182
BETOMIL II-200	barrel	200	CH-AA-00-4-37183
BETOMIL II-1000	container	1000	CH-AA-00-4-37383
BETOMIL III-30	canister	30	CH-AA-00-4-02673
BETOMIL III-200	barrel	200	CH-AA-00-4-02671
BETOMIL III-1000	container	1000	CH-AA-00-4-02670
BETOMIL IV-30	canister	30	CH-AA-00-0-43156
BETOMIL IV-200	barrel	200	CH-AA-00-0-43157
BETOMIL IV-1000	container	1000	CH-AA-00-0-43158
Ekobet 0-10	canister	10	CH-AA-00-0-14910
Ekobet 0-30	canister	30	CH-AA-00-4-14800
Ekobet 0-210	barrel	210	CH-AA-00-4-14801
Ekobet 0-1000	container	1000	CH-AA-00-4-14864

Impregnat for concrete maintenance



Symbol	Package	Sale unit [l]	Article no.
Impregnat C1-30	canister	30	CH-OB-00-0-02816
Impregnat C1-210	barrel	210	CH-OB-00-0-02815

Glues and mortars



Adhesive AB-Plus



Filling mortar



Mortar Starcret

Symbol	Package	Sale unit [kg]	Article no.
Adhesive AB-Plus	2 containers (set)	2	CH-KZ-00-0-33275
Filling mortar	bag	25	CH-KZ-00-0-02801
Mortar Starcret	bucket	15	CH-KZ-00-0-02796

Fiber for reinforcement



Symbol	Package	Sale unit [kg]	Article no.
Technofiber ECO 12	worek	0,75	CH-ZR-00-0-02814

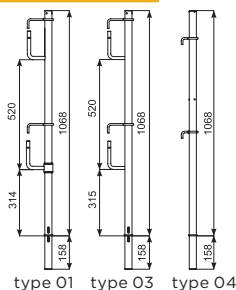
Technofiber performance: 750 g / 1 m³ concrete mixture.

SECUMAX®

System is dedicated for side protection at the buildings edge. It secures people against falling down, secures circulation areas, excavations and dangerous areas. System consists of planks (barriers) or protection meshes, posts and grips depended on requirements of the construction.

Barrier post

REGISTERED DESIGN

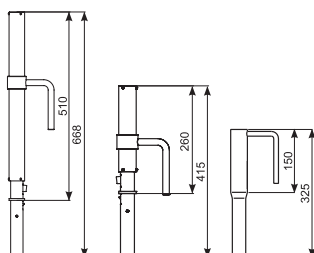


Barrier post (type 01 and type 03) is a base element of side protection system. Posts have automatic protection elements blocking themselves inside grips. Posts are equipped with hooks for barriers installation (planks 32x150 mm) and moving protectors against accidental removing planks. Hook width is adjusted for connection of two planks with their 32 mm width each.

Post type 01 has rotatable hook, post type 03 is equipped with stable hooks and type 4 has rotatable hook only for protection meshes.

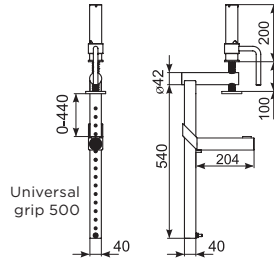
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Barrier post type 01	1	3,96	BH-SX-00-1-00914
Barrier post type 03	1	3,20	BH-SX-00-1-29017
Barrier post type 04	1	2,61	BH-SX-00-1-29016

Post extension

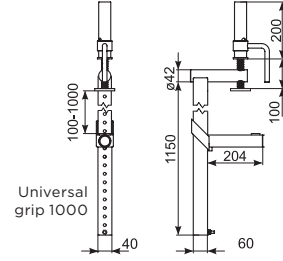


Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Post extension 150	1	1,10	BH-SX-00-0-00907
Post extension 250	1	2,00	BH-SX-00-0-00908
Post extension 500	1	2,84	BH-SX-00-0-00910

REGISTERED DESIGN



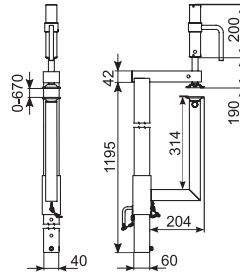
Universal grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Universal grip 500	1	5,34	BH-SX-00-0-00938
Universal grip 1000	1	7,95	BH-SX-00-0-00939



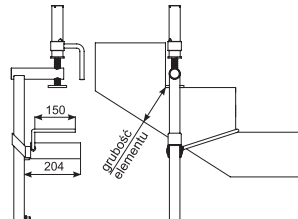
Universal bridge grip 1000



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Universal bridge grip 1000	1	10,7	BH-SX-00-1-44031

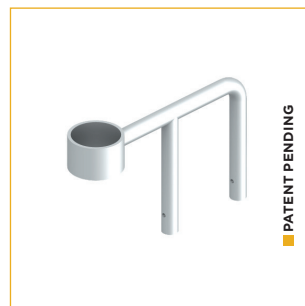
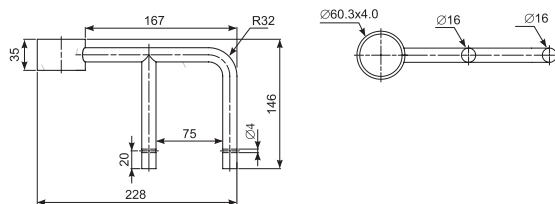


Stair catch for the universal grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Stair catch for the universal grip	1	1,40	BH-SX-00-0-00949
Stair catch 315 for the universal grip	1	1,50	BH-SX-00-0-00951

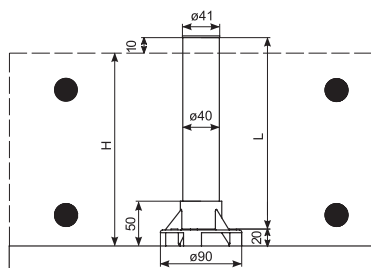
Kerb plank grip



PATENT PENDING

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Kerb plank grip	1	0,80	BH-SX-00-0-00919

Stay-in-place grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Mounting seat	1	0,03/pcs	BH-SX-00-0-00896
Plastic pipe K 34/40	1* (2 lm)	0,35/lm	AS-DK-ST-0-00774
Cap K 34	1**	0,012/pcs	AS-DK-ST-0-43840

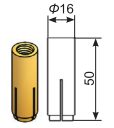
*Packaging: bunch 25 pcs (50 lm)

**Packaging: bag 500 pcs

REGISTERED DESIGN



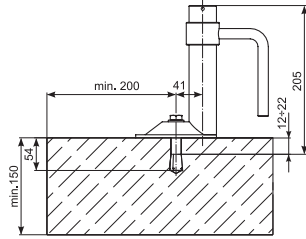
Screw-in grip



Sleeve anchor



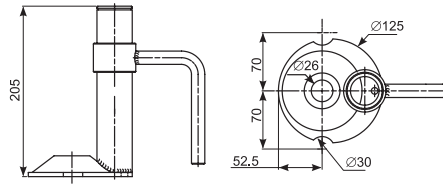
Setting tool



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Screw-in grip	1	1,74	BH-SX-00-0-00943
Sleeve anchor EA II M12x50	1	0,044	MO-MM-00-0-04405
EAW H12 plus setting tool	1	0,52	NA-NA-00-0-04798
SDS Plus 15/160 drill bit	1	0,1	NA-NA-00-0-04864



Screw-in bridge grip

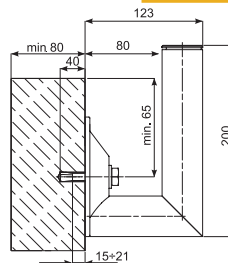


Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Screw-in bridge grip	1	1,70	BH-SX-00-0-00946

REGISTERED DESIGN

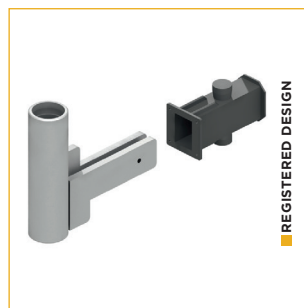
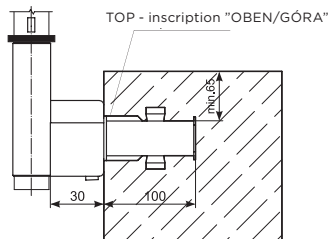


Screw-in side grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Screw-in side grip	1	1,76	BH-SX-00-0-00944
FISCHER ZYKON FZEA II 14x40 M12 anchor	1	0,026	MO-MM-00-0-04409
FZED 14 plus setting tool	1	0,6	NA-NA-00-0-04800
FZUB 14x40 drill bit	1	0,184	NA-NA-00-0-04860

Side grip

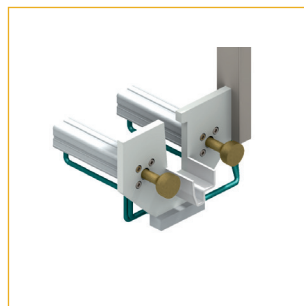
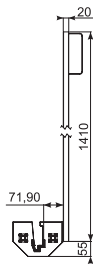


REGISTERED DESIGN

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Side grip	1	1,12	BH-SX-00-0-00916
Side grip seat	1*	0,04	BH-SX-00-0-00897

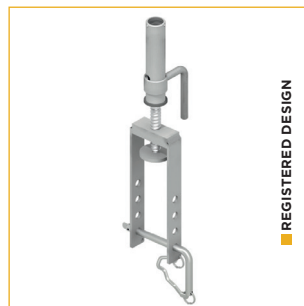
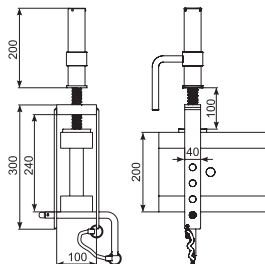
*Packaging: bag 50 pcs

Pneumatic side grip spanner



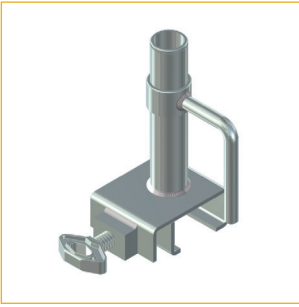
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Pneumatic side grip spanner	1	3,00	BH-SX-00-0-05805

Support pillar grip

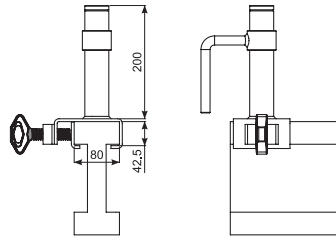


REGISTERED DESIGN

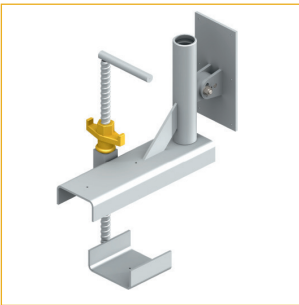
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Support pillar grip	1	3,98	BH-SX-00-0-00930



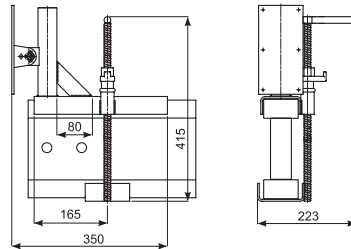
Screw-type pillar grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Screw-type pillar grip	1	2,80	BH-SX-00-0-00929



Formwork support pillar grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Formwork support pillar grip	1	5,50	BH-SX-00-0-00931

Recommended grip spacing			
ceiling slab thickness [mm]	150	200	300
grip spacing [m]	1	0,75	0,5

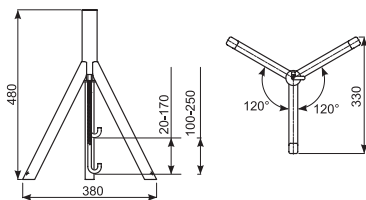


Pipe wrench

The s-17 mm pipe wrench is used for the adjustment of mobile parts in the SECUMAX system grips - the type 650 adjustable formwork grip, the precast component grip, and in the SECUMAX RAIL system - the rail grip.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Pipe wrench	1	0,450	NA-NA-PR-0-04723

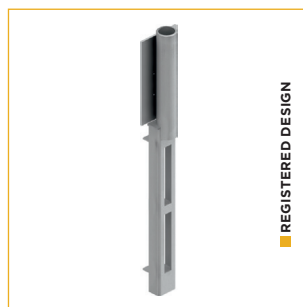
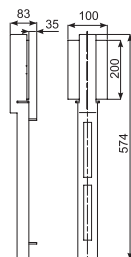
Precast component grip



REGISTERED DESIGN

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Precast component grip	1	2,540	BH-SX-00-0-00924
Pipe wrench	1	0,450	NA-NA-PR-0-04723
Hook for pre-cast component grip 20-170 mm	1	0,18 - 0,27	BH-SX-00-0-01744

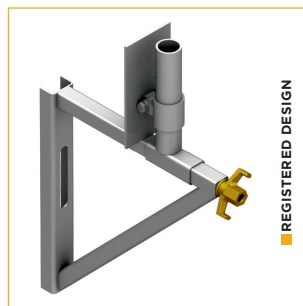
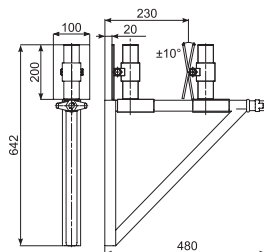
Formwork grip



REGISTERED DESIGN

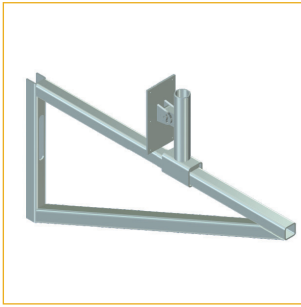
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.	
Formwork grip	1	2,94	BH-SX-00-0-00926	
ceiling slab thickness [mm]		150	200	300
recommended grip spacing [m]		1	0,75	0,5

Adjustable formwork grip

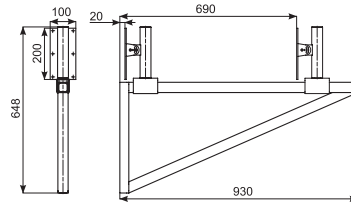


REGISTERED DESIGN

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.	
Adjustable formwork grip	1	7,30	BH-SX-00-0-00922	
ceiling slab thickness [mm]		150	200	300
recommended grip spacing [m]		1	0,75	0,5



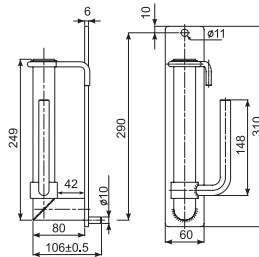
Type 650 adjustable formwork grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Type 650 adjustable formwork grip	1	12,500	BH-SX-00-0-00923
Pipe wrench	1	0,450	NA-NA-PR-0-04723
ceiling slab thickness [mm]	150	200	300
recommended grip spacing	1	0,75	0,5



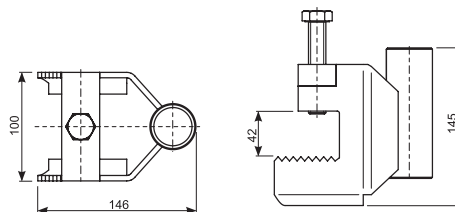
Elevator shaft grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Elevator shaft grip	1	2,50	BH-SX-00-0-00927
EA II M8x30 sleeve anchor	1	0,012	MO-MM-00-0-04406
EAW H8x30 plus setting tool	1	0,45	NA-NA-00-0-04799
SDS-Plus 10/160 drill bit	1	0,07	NA-NA-00-0-04873

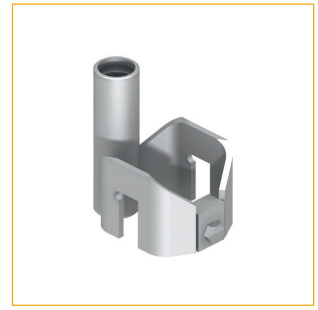
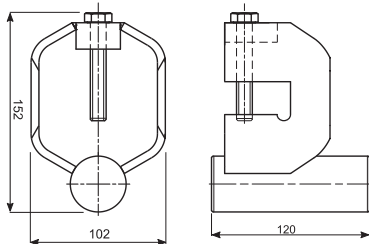


Steel structure grip



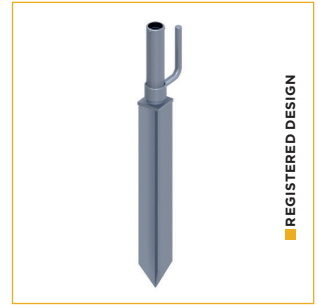
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Steel structure grip	1	2,10	BH-SX-00-0-00921

Sheet pile grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Sheet pile grip	1	1,42	BH-SX-00-0-00920

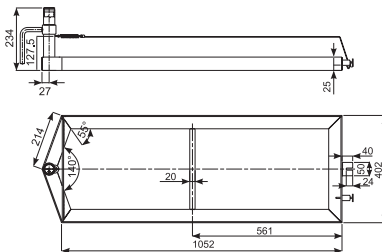
Ram-in grip



REGISTERED DESIGN

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Ram-in grip	1	3,72	BH-SX-00-0-00941
Ram-in grip mallet	1	2,75	BH-SX-00-0-00905

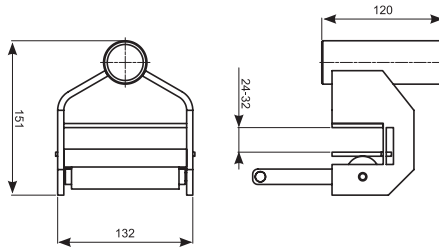
Counterweight grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Counterweight grip	1	11,0	BH-SX-00-0-00936



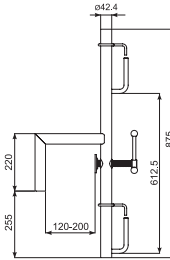
Vehicle board wall grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Vehicle board wall grip	1	2,70	BH-SX-00-0-23959



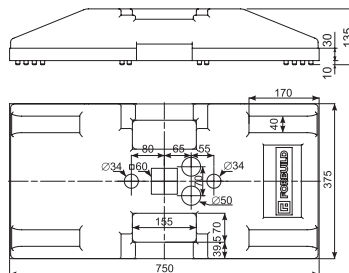
Protective panel grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Protective panel grip	1	5,20	BH-SX-00-0-19665

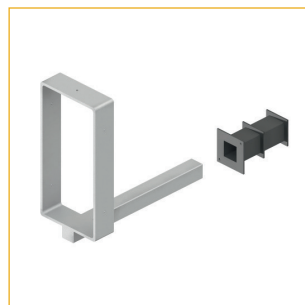
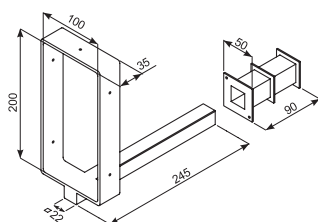


Foot grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Foot grip	1	28	BH-SX-00-0-00937

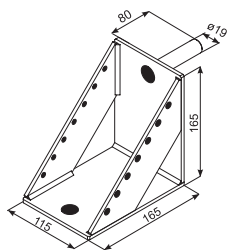
Clip grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Clip grip	1	1,71	BH-SX-00-0-00918
Clip seat	1*	0,02	BH-SX-00-0-00895

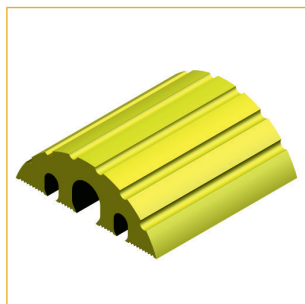
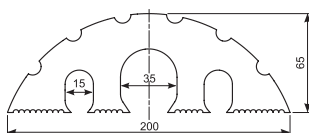
*Package: bag 50 pcs

Work platform grip

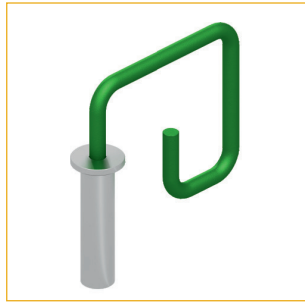


Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Work platform grip	1	2,40	BH-SX-00-0-00934

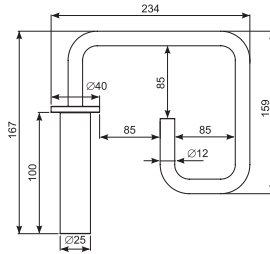
Universal safety profile



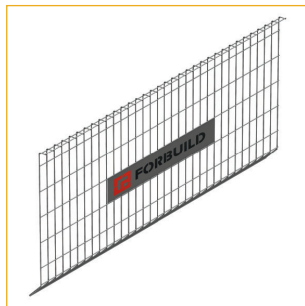
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Universal safety profile L=1500 mm	1	16,5	BH-SX-00-0-00948



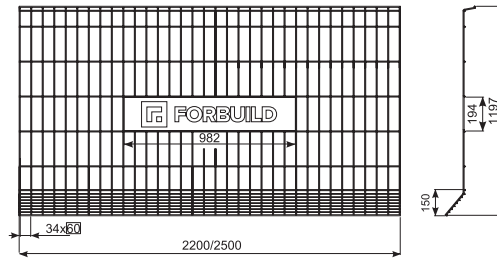
Cable grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Cable grip	1	0,60	BH-SX-00-0-00925



Safety net



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Safety net 2200	1	16,00	BH-SX-00-0-00912
Safety net 2500	1	19,00	BH-SX-00-0-23905



Protective plank

Forbuild protective planks, used for safety handrails and kerb planks, are made of at least C-18 class wood, and have minimum dimensions of 32 x 150 x 2500 mm and 32 x 150 x 1500 mm. Upon request, the safety planks may have the company name placed on them. In order to estimate the number of planks for a required structure, the following formulae may be used:

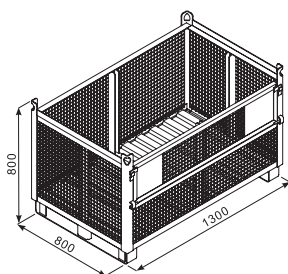
$$A=(L/2)+1, \text{ where } A - \text{ number of barrier pillars, } L - \text{ length of required structure in metres;}$$

Should one want to use three planks for the structure:
 $X=(A-M)*3$, where X - plank count, M - barrier count.

Should one want to use two planks for a structure (i. e. flights of stairs):
 $X=(A-M)*2$, where X - plank count, M - barrier count.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
FORBUILD protective plank	1	5,5-6,5	BH-SX-00-0-00894
Protective plank with company logo	1	5,5-6,5	-

Transport container



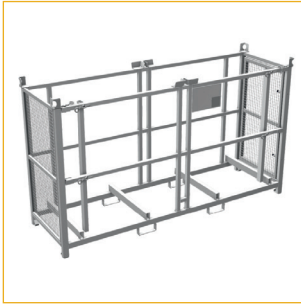
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Transport container	1	71,6	BH-SX-00-0-00899

Number of individual system components stored in the container	Quantity [pcs/container]
Barrier post	100
Post extension 150	600
Post extension 250	350
Post extension 500	200
Universal grip	70
Universal grip 1000	30
Side grip	600
Formwork support pillar grip	50
Support pillar grip	100
Screw-in grip	250
Ram-in grip	150
Precast component grip	60
Sheet pile grip	250
Screw-in side grip	250
Adjustable formwork grip	30
Formwork grip	140
Work platform grip	200
Screw-in bridge grip	250
Elevator shaft grip	300
Kerb plank grip	600
Cable grip	600
Stair catch	300
Clip grip	300

The transport container is used to transport, store and secure SECUMAX edge protection system components. The container structure allows transport of parts weighing up to 1200 kg in total. The container base rests on two support feet, which simplifies setting it up on the ground, even if the ground area is not level.

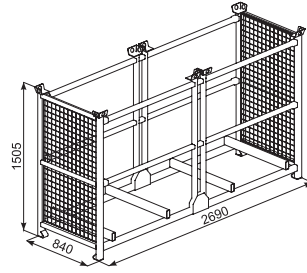
In addition, these feet allow transporting the container using a forklift and stacking the containers in a warehouse. In the corners, eyes were installed, allowing transport with a hoisting device using a sling. One container side is a swing-away wall, allowing easier access to the components stored inside.

The container bottom is made of profiled sheet steel, and the side walls are made of mesh. Internal reinforcement ribs (placed at each container side walls) allow division of the container into smaller spaces, thanks to which diverse system components can be stored in the same container.



Transport container for planks and meshes

Capacity of container for planks and meshes	Quantity [pcs/ container]
Planks	148
Meshes	29



The container has a lightweight construction with a removable front panel. This gives opportunity for quick loading and unloading of elements. The product can be transported using a forklift or other transportation machine.

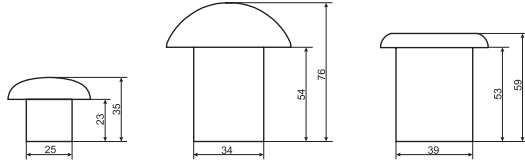
System containers have been designed to give opportunity for storing and transportation together. Two SECUMAX transport baskets can be stacked side by side on the transport container for boards and nets.

Baskets on which other baskets are placed should be filled with Secumax elements. Filled baskets can only be moved separately.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Transport container for planks and meshes	1	181	BH-SX-00-0-00901



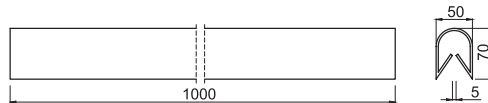
PVC cover for reinforcement bars



Symbol	Quantity in the bag [pcs]	Weight [kg/pcs]	Article no.
PVC cover for reinforcement bars D8/16 mm	250	0,008	BH-SX-00-0-00904
PVC cover for reinforcement bars D16/32 mm	125	0,035	BH-SX-00-0-00903
PVC cover for reinforcement bars D8/36 mm	250	0,025	BH-SX-00-0-23587



PVC batten for reinforcement bars



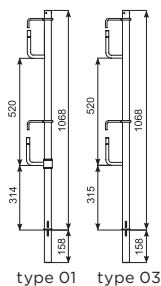
Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
PVC batten for reinforcement bars	1	0,81	BH-SX-00-0-06750
Steel-core PVC batten for reinforcement bars	1	1,60	BH-SX-00-0-06751

SECUMAX® Rail

The Secumax Rail system is used for the purpose of execution of side protection during upgrades, reconstruction or construction of railway lines. The system is used to mark out the hazard zone when securing work places on closed tracks, while traffic on open tracks with a speed equal to or exceeding 100 km/h is ongoing.

Barrier post

REGISTERED DESIGN

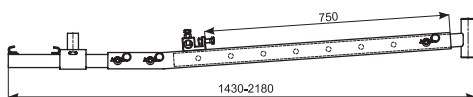


Barrier post (type 01 and type 03) is a base element of side protection system. Posts have automatic protection elements blocking themselves inside grips. Posts are equipped with hooks for barriers installation (planks 32x150 mm) and moving protectors against accidental removing planks. Hook width is adjusted for connection of two planks with their 32 mm width each.

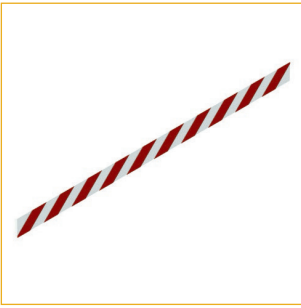
Post type 01 has rotatable hook, post type 03 is equipped with stable hooks and type 4 has rotatable hook only for protection meshes.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Barrier post type 01	1	3,96	BH-SX-00-1-00914
Barrier post type 03	1	3,20	BH-SX-00-1-29017

Rail grip



Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Rail grip	1	9,70	BH-SR-00-0-19109
Pipe wrench	1	0,45	NA-NA-PR-0-04723



Protective plank

Protective planks used as protective hand rails are made of stripped wood of class at least C-18 per standard PN-EN 14081, with dimensions of 32 x 150 x 2500 mm. The planks are painted according to stipulations from documents of the Polish State Railway Lines, meaning, in white and red belts at an angle of 45°. The protective planks are inserted into the upper and lower hooks of the barrier pillars, so that they are located on the side of the passageways.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
RAIL protective plank	1	6,00	BH-SR-00-0-19381



Pipe wrench

The s-17 mm pipe wrench is used for the adjustment of mobile parts in the SECUMAX system grips - the type 650 adjustable formwork grip, the precast component grip, and in the SECUMAX RAIL system - the rail grip.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Pipe wrench	1	0,450	NA-NA-PR-0-04723

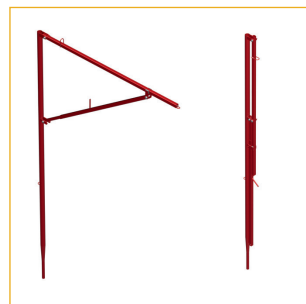
ALSIPERCHA

A security system for belaying during floor formwork and reinforcement works in which there is a risk of falling from a height. It consists of a crane inserted into a bushing embedded in a pole (immediately after pouring concrete), to which a self-locking device located above the user's head is attached.

Crane

Metal crane in the shape of an inverted letter „L" with a length of 2.5 m and a height of 4.3 m (the value of this parameter is reduced to 3.5 m after installation of the device in the pole). The whole set is carried by the crane using a special sling and is embedded in a tube socket. It allows the operator to work safely on an area of 125 m² and moving within a radius of 6.5 m around the pole.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Crane	1	77,28	BH-AP-00-0-00890



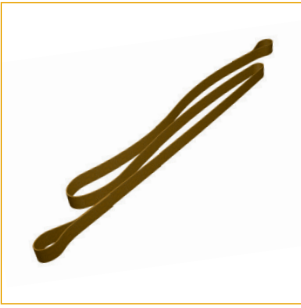
Boat hook

Used for hitching and pulling the crane by the operator and replacing the hitch. The length of the boat hook is approximately 2.8 m.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Boat hook	1	2	BH-AP-00-0-00876



Sling



Element used for transporting the Alsipercha device using a crane.

Symbol	Unit [pcs]	Weight [kg/ pcs]	Article no.
Sling	1	0,62	BH-AP-00-0-00888

Cylindrical leveller



Device for plumbing a tube socket. The leveller also prevents lifting of the tube socket under the influence of concrete pressure. The length of the cylindrical leveller is approx. 1,0 m.

Symbol	Unit [pcs]	Weight [kg/ pcs]	Article no.
Cylindrical leveller	1	3,96	BH-AP-00-0-00880

Tube socket



Lost element used for proper embedding of a crane in a reinforced concrete element. The length of the tube socket is approx. 0,85 m and its upper diameter is \varnothing 75 mm.

Symbol	Unit [pcs]	Weight [kg/ pcs]	Article no.
Tube socket	1	2,71	BH-AP-00-0-00878

Safety retractor



The retracting mechanism is pulled in automatically and locks in the moment of rapid acceleration (fall), has a PVC cover that protects against mechanical damage and moisture.

Symbol	Unit [pcs]	Weight [kg/ pcs]	Article no.
Safety retractor	1	1,60	BH-AP-00-0-00886

Extension of the harness with the shackle

The element of connection of the harness with the safety retractor belt, its maximum length is approx. 1,5 m.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Extension of the harness with the shackle	1	0,31	BH-AP-00-0-00882



Harness

The safety harness is a harness used to stop the fall. As standard, they have one latch clip around the arms on the back.

Symbol	Unit [pcs]	Weight [kg/pcs]	Article no.
Harness	1	1	BH-AP-00-0-00884



Tripod

The Alsipercha Tripod, together with Alsipercha system, is a solution that allows operators to safely load/unload from a trailer.

It is very important to mount tripod on sufficiently compact and resistant terrain so that the anchor device provides sufficient safety guarantees. For example - anchoring to concrete/slab (minimum 300 x 300 cm and thickness of 25 cm, HA25 or higher concrete sole plate) anchoring with 3 pcs "M12 FISCHER FH II 18/25 S High Resistance Anchors" (or equivalent).

Symbol	Wysokość [m]	Weight [kg/pcs]	Article no.
Tripod 2M	2	90	BH-AP-00-4-38150
Tripod 3M	3		

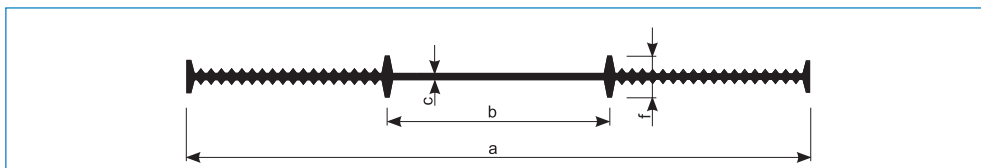




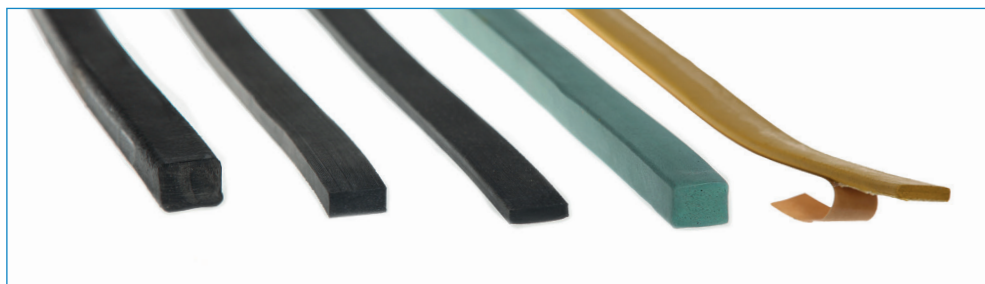
Sealing systems

Forbuild offers wide range of surface sealing systems and sealing systems for working joints and expansions joints. Forbuild's offer consists of: sealing bands (internal and external sealing bands for working joints and expansion joints), sealing steel plates, swelling tapes, injections system and bentonite mats.

Sealing bands and instalation accessories



Sweling tapes FORBENT and MASTERSTOP

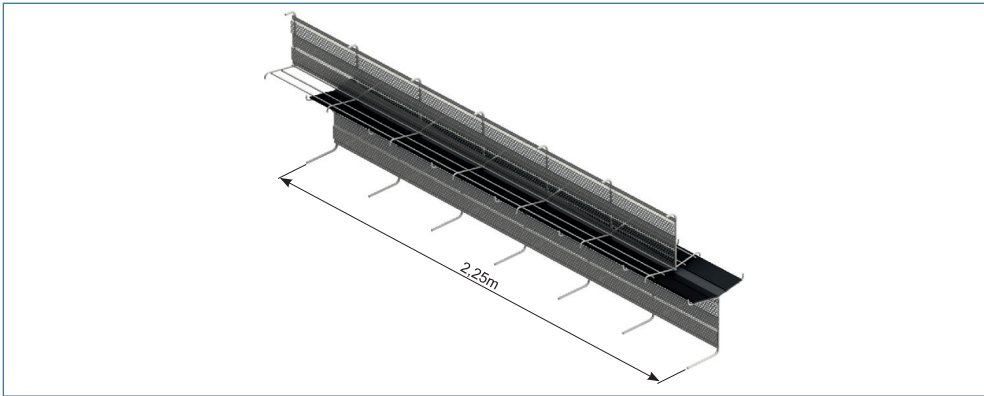


Sealing steel plates

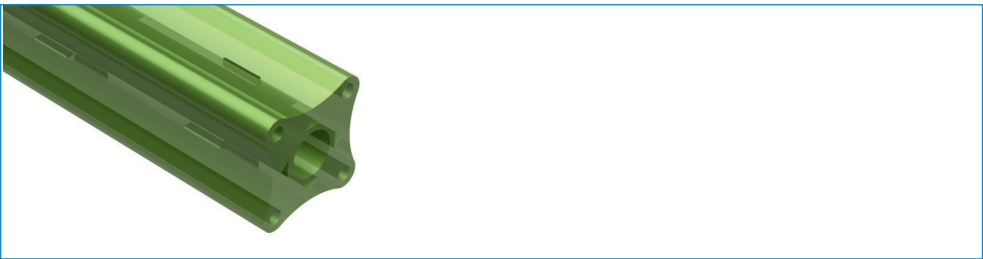


STP - two-sided permanent shuttering

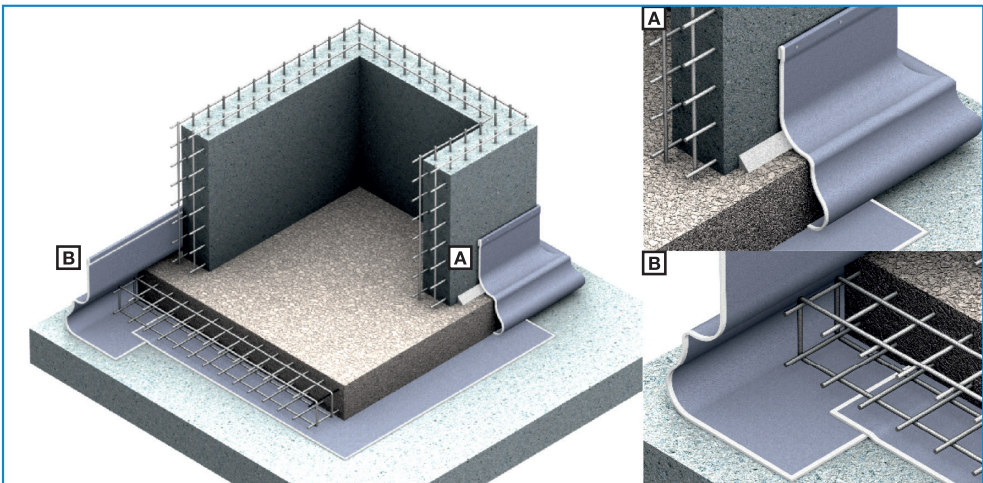
STP shuttering is used for working joints of foundation slabs which are subjected to water pressure influence. It is also holder for internal sealing band.



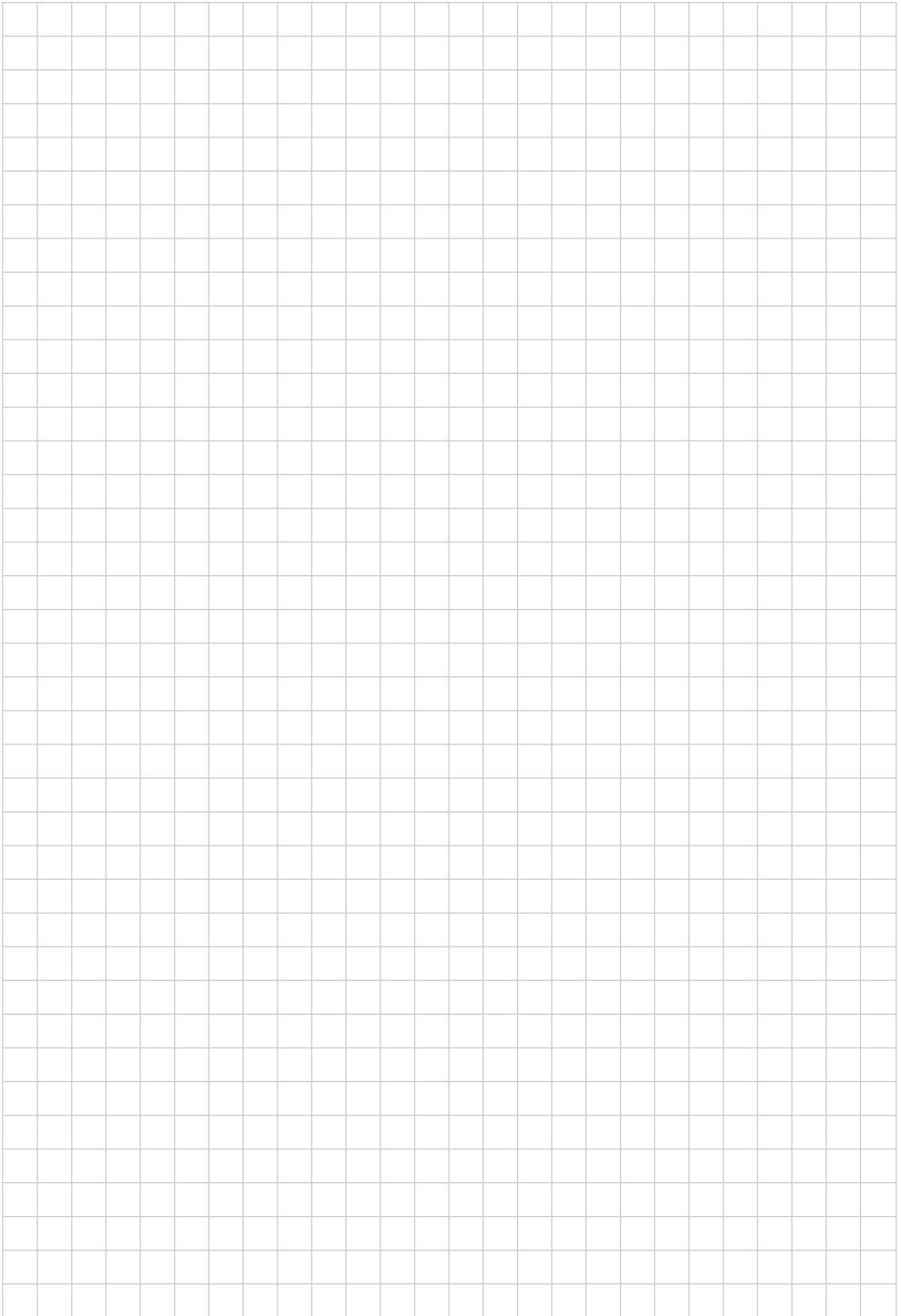
Injection system P-100

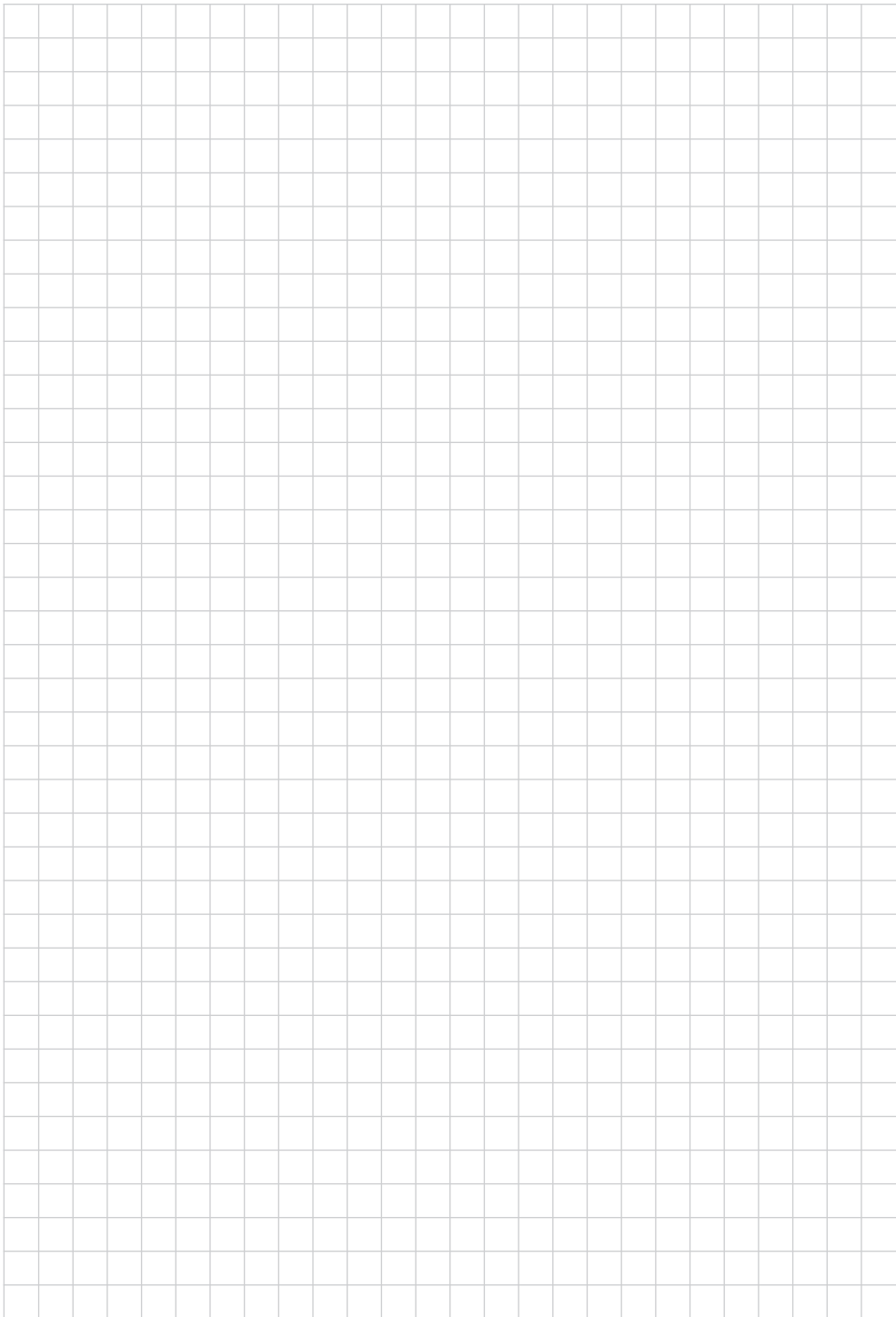


Bentonite mats IZOTEX



Notes





Notes

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

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