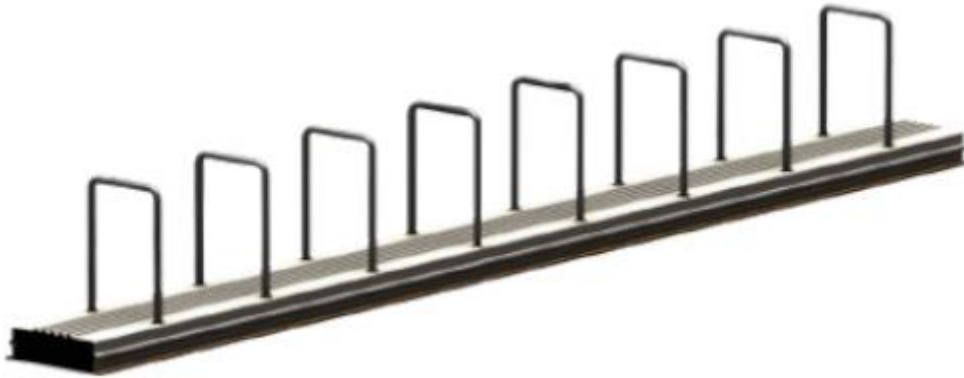


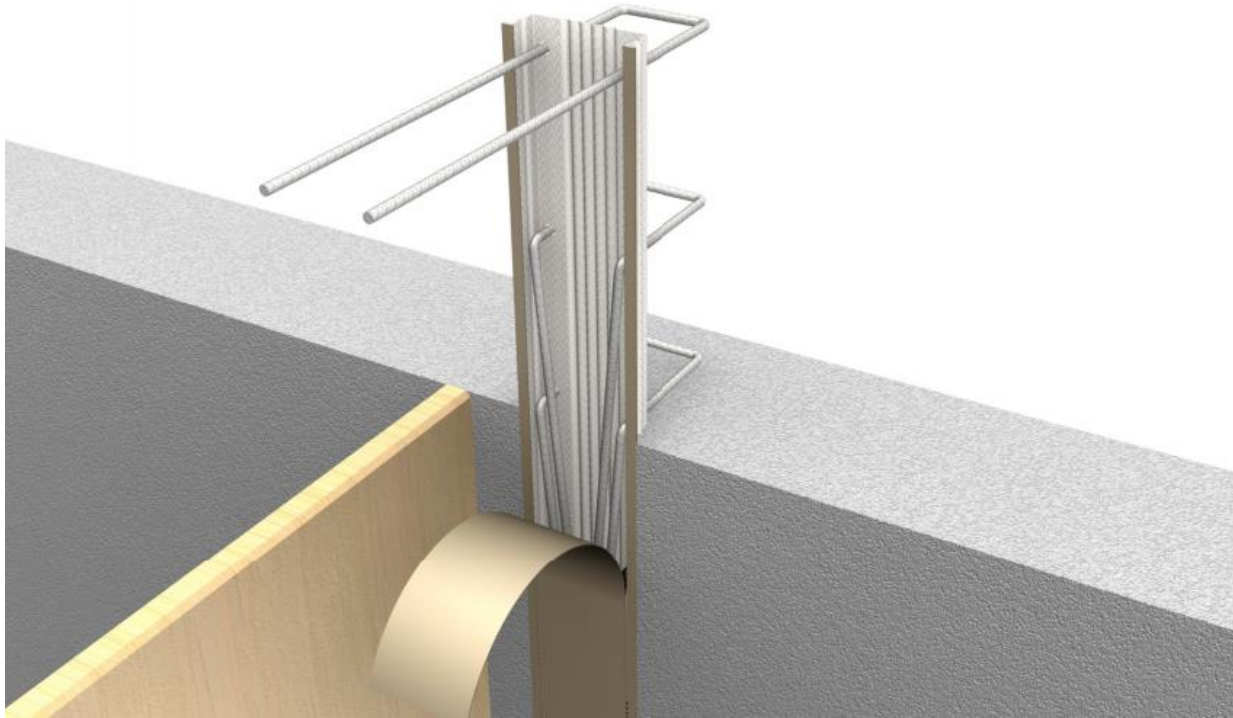
COMMERCIAL DOCUMENTATION



TERWA STARTER BOX | **TYPE S**



GENERAL INFORMATION



PRODUCT DESCRIPTION

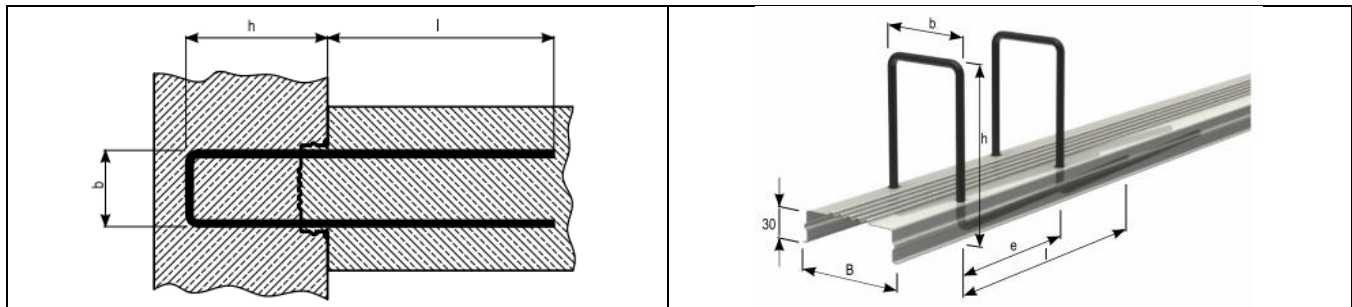
TERWA starter boxes are composed of the longitudinal steel profiles (rails) made by perforated, galvanized steel plate. Ribbed reinforcing bars are embedded in the profiles. Reinforcing bars from one side of the profile form anchoring loops, and from the other side- are bent to it and covered by the thick plastic tape. Concrete reinforcement bended starter boxes are used to perform vertical and horizontal connections of the elements of reinforced concrete constructions, concreted in stages and the precast elements with monolithic. Use of connecting set TERWA ensures fulfilment all requirements specified by standards for proper form of contact anastomosis. Standards for design concrete constructions assume that with the correct shape of the joint we can treat the construction element as homogeneous and permanently compound.

USE

Reinforcement bended Starter Boxes allow execution of connection reinforced concrete structural elements, concreted in various stages of construction, i.e. in connection of the walls, floors to walls, staircase landings, balconies, consoles etc. It allows significantly reduce the duration of the investment and reducing the period of lease elements of formwork system.

ADVANTAGES

- Simplified execution of constructing joins and additional concreting
- Easy and fast assembly - the component is attached to the formwork by nails
- Specially contoured shape of the perforated rail provides proper preparation of the contact surface on the connection of the two elements, implemented at different time
- Thanks to deliberately roughened joint with optimally shaped furrow (notch) entirely transfer shearing forces occurring in the connector
- It allows for continuity of reinforcement and required length of anchoring bars in elements of reinforcement concrete
- The shape of the rail guarantees the correct depth of concrete coverage of the reinforcing bars
- The rail is made from galvanized steel plate, what protects it by aggressive influence of environment at the storage stage and during realization
- The shape and construction of the rail provides stability during concreting and protect by permeation of the concrete inside the profile
- Thick plastic tape ensures durable protection of reinforcement bars at the time of installation the rail to the formwork. Perforation cut in the rail allows for its quick removal and commencement of reinforce works
- Possibility of matching to the different shapes of formwork (i.e. arch formworks)
- It can be adapted to different systems of reinforcement in elements of reinforced concrete-non-standard elements, on inquiry
- Reinforcement bended Starter Boxes have technical approval which can be asked for at TERWA Construction Group

TERWA STARTER BOX – TYPE S


Symbol	Rail width B [mm]	Bar diameter ϕ [mm]	Bar spacing E [cm]	h [cm]	b [cm]	l [cm]	Measurement Unit	Packaging [pcs/palette]	Art. No.
TSB – type S									
TSB type S 80-8/15	80	8	15	15	6	32	Mb	150pcs.=187,5	64646
TSB type S 80-8/20	80	8	20	15	6	32	mb	150	64647
TSB type S 80-8/25	80	8	25	15	6	32	mb	150	64648
TSB type S 80-10/15	80	10	15	15	6	29	mb	150	64649
TSB type S 80-10/20	80	10	20	15	6	36	mb	150	64650
TSB type S 80-10/25	80	10	25	15	6	39	mb	150	64651
TSB type S 110-8/10	110	8	10	15	9	32	mb	80pcs.=100m	64652
TSB type S 110-8/15	110	8	15	15	9	32	mb	80	64653
TSB type S 110-8/20	110	8	20	15	9	32	mb	80	64654
TSB type S 110-8/25	110	8	25	15	9	32	mb	80	64655
TSB type S 110-8/30	110	8	30	15	9	32	mb	80	64656
TSB type S 110-10/10	110	10	10	15	9	39	mb	80	64657
TSB type S 110-10/15	110	10	15	15	9	39	mb	80	64658
TSB type S 110-10/20	110	10	20	15	9	39	mb	80	64659
TSB type S 110-10/25	110	10	25	15	9	39	mb	80	64660
TSB type S 110-10/30	110	10	30	15	9	39	mb	80	64661
TSB type S 110-12/10	110	12	10	15	9	30	mb	80	64662
TSB type S 110-12/15	110	12	15	15	9	33	mb	80	64663
TSB type S 110-12/20	110	12	20	15	9	46	mb	80	64664
TSB type S 110-12/25	110	12	25	15	9	46	mb	80	64665
TSB type S 110-12/30	110	12	30	15	9	46	mb	80	64666
TSB type S 140-8/10	140	8	10	15	12	32	mb	108pcs.=135m	64667
TSB type S 140-8/15	140	8	15	15	12	32	mb	108	64668
TSB type S 140-8/20	140	8	20	15	12	32	mb	108	64669
TSB type S 140-8/25	140	8	25	15	12	32	mb	108	64670
TSB type S 140-8/30	140	8	30	15	12	32	mb	108	64671
TSB type S 140-10/10	140	10	10	15	12	39	mb	108	64672
TSB type S 140-10/15	140	10	15	15	12	39	mb	108	64673
TSB type S 140-10/20	140	10	20	15	12	39	mb	108	64674
TSB type S 140-10/25	140	10	25	15	12	39	mb	108	64675
TSB type S 140-10/30	140	10	30	15	12	39	mb	108	64676
TSB type S 140-12/10	140	12	10	15	12	40	mb	108	64677
TSB type S 140-12/15	140	12	15	15	12	46	mb	108	64678
TSB type S 140-12/20	140	12	20	15	12	46	mb	108	64679
TSB type S 140-12/25	140	12	25	15	12	46	mb	108	64680
TSB type S 140-12/30	140	12	30	15	12	46	mb	108	64681
TSB type S 160-8/10	160	8	10	15	14	32	mb	84pcs.=105m	64682
TSB type S 160-8/15	160	8	15	15	14	32	mb	84	64683
TSB type S 160-8/20	160	8	20	15	14	32	mb	84	64684
TSB type S 160-8/25	160	8	25	15	14	32	mb	84	64685
TSB type S 160-8/30	160	8	30	15	14	32	mb	84	64686
TSB type S 160-10/10	160	10	10	15	14	39	mb	84	64687
TSB type S 160-10/15	160	10	15	15	14	39	mb	84	64688
TSB type S 160-10/20	160	10	20	15	14	39	mb	84	64689
TSB type S 160-10/25	160	10	25	15	14	39	mb	84	64690
TSB type S 160-10/30	160	10	30	15	14	39	mb	84	64691
TSB type S 160-12/10	160	12	10	15	14	43	mb	84	64692
TSB type S 160-12/15	160	12	15	15	14	46	mb	84	64693
TSB type S 160-12/20	160	12	20	15	14	46	mb	84	64694
TSB type S 160-12/25	160	12	25	15	14	46	mb	84	64695

TSB type S 160-12/30	160	12	30	15	14	46	mb	84	64696
Symbol	Rail width B [mm]	Bar diameter ϕ [mm]	Bar spacing E [cm]	h [cm]	b [cm]	l [cm]	Measurement Unit	Packaging [pcs/palette]	Art. No.
TSB – type S									
TSB type S 190-8/10	190	8	10	15	17	32	mb	72pcs.=90m	64697
TSB type S 190-8/15	190	8	15	15	17	32	mb	72	64698
TSB type S 190-8/20	190	8	20	15	17	32	mb	72	64699
TSB type S 190-8/25	190	8	25	15	17	32	mb	72	64700
TSB type S 190-8/30	190	8	30	15	17	32	mb	72	64701
TSB type S 190-10/10	190	10	10	15	17	39	mb	72	64702
TSB type S 190-10/15	190	10	15	15	17	39	mb	72	64703
TSB type S 190-10/20	190	10	20	15	17	39	mb	72	64704
TSB type S 190-10/25	190	10	25	15	17	39	mb	72	64705
TSB type S 190-10/30	190	10	30	15	17	39	mb	72	64706
TSB type S 190-12/10	190	12	10	15	17	46	mb	72	64707
TSB type S 190-12/15	190	12	15	15	17	46	mb	72	64708
TSB type S 190-12/20	190	12	20	15	17	46	mb	72	64709
TSB type S 190-12/25	190	12	25	15	17	46	mb	72	64710
TSB type S 190-12/30	190	12	30	15	17	46	mb	72	64711
TSB type S 220-8/10	220	8	10	15	20	32	mb	48pcs.=60m	64712
TSB type S 220-8/15	220	8	15	15	20	32	mb	48	64713
TSB type S 220-8/20	220	8	20	15	20	32	mb	48	64714
TSB type S 220-8/25	220	8	25	15	20	32	mb	48	64715
TSB type S 220-8/30	220	8	30	15	20	32	mb	48	64716
TSB type S 220-10/10	220	10	10	15	20	39	mb	48	64717
TSB type S 220-10/15	220	10	15	15	20	39	mb	48	64718
TSB type S 220-10/20	220	10	20	15	20	39	mb	48	64719
TSB type S 220-10/25	220	10	25	15	20	39	mb	48	64720
TSB type S 220-10/30	220	10	30	15	20	39	mb	48	64721
TSB type S 220-12/10	220	12	10	15	20	46	mb	48	64722
TSB type S 220-12/15	220	12	15	15	20	46	mb	48	64723
TSB type S 220-12/20	220	12	20	15	20	46	mb	48	64724
TSB type S 220-12/25	220	12	25	15	20	46	mb	48	64725
TSB type S 220-12/30	220	12	30	15	20	46	mb	48	64726
TSB type S 240-8/10	240	8	10	15	22	32	mb	48pcs.=60m	64727
TSB type S 240-8/15	240	8	15	15	22	32	mb	48	64728
TSB type S 240-8/20	240	8	20	15	22	32	mb	48	64729
TSB type S 240-8/25	240	8	25	15	22	32	mb	48	64730
TSB type S 240-8/30	240	8	30	15	22	32	mb	48	64731
TSB type S 240-10/10	240	10	10	15	22	39	mb	48	64732
TSB type S 240-10/15	240	10	15	15	22	39	mb	48	64733
TSB type S 240-10/20	240	10	20	15	22	39	mb	48	64734
TSB type S 240-10/25	240	10	25	15	22	39	mb	48	64735
TSB type S 240-10/30	240	10	30	15	22	39	mb	48	64736
TSB type S 240-12/10	240	12	10	15	22	46	mb	48	64737
TSB type S 240-12/15	240	12	15	15	22	46	mb	48	64738
TSB type S 240-12/20	240	12	20	15	22	46	mb	48	64739
TSB type S 240-12/25	240	12	25	15	22	46	mb	48	64740
TSB type S 240-12/30	240	12	30	15	22	46	mb	48	64741

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TERWA is the global supplier for precast and construction solutions with multiple offices around the world. With all our staff, partners and agents, we are happy to provide all construction and precast companies who work in the building industry with full service and 100% support.

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