EURO ACCESSORIES

CARES TECHNICAL APPROVAL

TERWA

THREADED REBAR CONNECTION COUPLERS

V2

CARES Technical Approval 5058 TA1B

Threaded Rebar Connection Couplers

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Introduction

The Terwa threaded coupler system provides a safe, reliable and efficient method of providing mechanical rebar connections that meet the requirements of BS8110. By increasing the cross sectional area of material at the joint the connection exceeds the tensile and shear capabilities of the parent bar. This attribute means the performance of the coupling can be ignored in any structural assessment. This makes the adoption of the Terwa couplers over standard rebar in lapped joints or stop ends a simple exchange. The system is backed up by a CARES Technical Approval, verifying compliance with BS8110 and EC2 for mechanical reinforcement connections.

The characteristics and advantages of the Terwa Rebar Connection System are:

- It is suitable for reinforcement steel with a diameter from 10 mm to 40 mm.
- CARES Technical Approval.
- The full capacity of the bar can be used.
- Full connection of the reinforcement.
- Suited for dynamic and seismic loads.
- Slip value of the system ≤ 0.1 mm.
- Additional preparation of the reinforcement steel is not necessary.
- Suitable for all types of reinforcement steel according to British and European Norms.
- The couplers are designed for reinforcement steel B500B or B500C in accordance with BS4449 and EN 10080 and have a yield strength ≥ 500 MPa and a tensile strength ≥ 550 MPa.
- The shape, height and type of ribs in the reinforcement steel have no influence on the connection.
- The minimum external diameter of the coupler improves concrete cover in lapped joints, and reduces congestion of reinforcement steel in heavily reinforced structures.
- Full connection can be achieved without additional locking nuts.
- Any diameter and length of the reinforcement steel straight or bent can be fitted with a coupler for easy connection on site.

Installation:

- The coupling can be completed with a simple stilson type pipe wrench or our calibrated wrench is available on request. This is all that is required to complete a mechanical slip free joint.
- There is no requirement for specialist training, additional power supplies or specialist tools to complete the joint.
- The use of standard metric thread and intuitive design allows a simple and fast connection of the rebar.
- The time spent connecting reinforcement is minimised.

Material Finish:

- The couplers are delivered as standard in zinc plated finish to prevent corrosion of the threaded portion of the couplers.
- The couplers be can manufactured in stainless steel on special request.

Terwa Rebar Connection System is composed of:

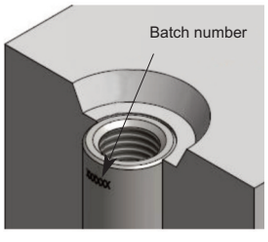
- Reinforcement steel B500B or B500C in accordance with BS4449 and EN 10080.
- A sleeve with internal thread type PKB, swaged onto either a single end or both ends of the reinforcement steel.
- Forged and threaded reinforcement steel, TSE couplers.
- Position couplers TWSK.
- Transition couplers PSA-T.
- Weldable couplers KB-W.
- Fixing connectors KB or KBL.
- End couplers EC.
- Accessories to aid placement and final connection.

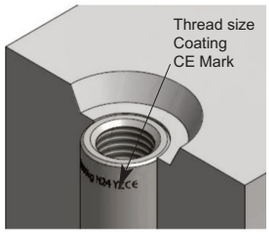
Quality

Continuous monitoring and inspection of the production process is carried out, ensuring connection strength, dimensional tolerances and material quality are maintained at all times. A quality management system allowing full traceability from raw material to completed product is maintained and independently audited on an annual basis.

Marking and traceability

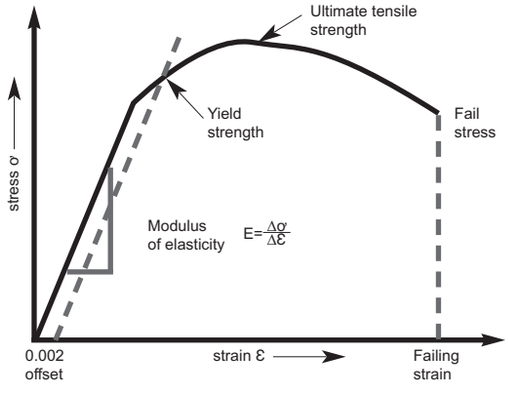
All couplers in the range are CE marked and are stamped with the production batch number, thread size and finish coating.



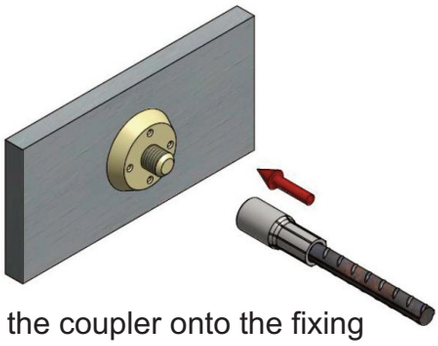


Testing

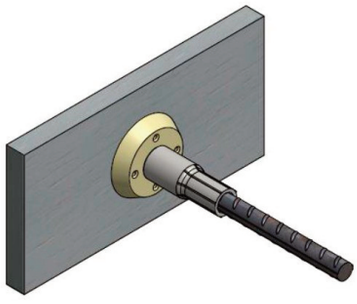
The couplers are designed to ensure full transfer of loads into the reinforcement steel with a slip value ≤ 0.1mm. To ensure this, periodic testing of the system is carried out under laboratory conditions.



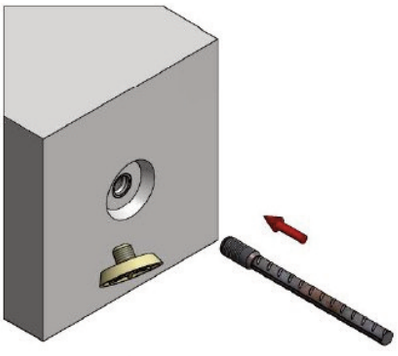
PSA and TSE Coupler Installation Instructions



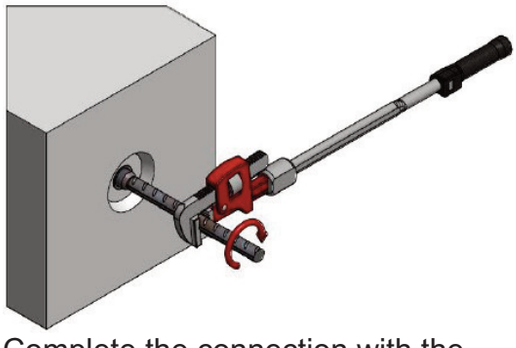
Thread the coupler onto the fixing plate attached to the shuttering system.



The concrete can now be poured.



After removal of the shuttering system and removal of the fixing plate the TSE coupler can be inserted and hand tightened.



Complete the connection with the calibrated torque wrench.

Calibrated Torque Wrench

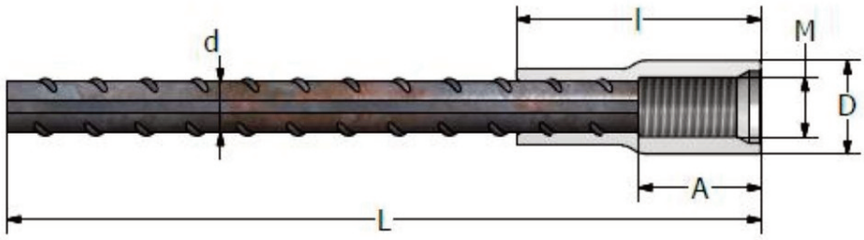
The calibrated torque wrench is specially designed for the correct installation of the Terwa couplers on site. All Terwa wrenches are delivered together with a calibration report and instructions for use. The torque values are marked on the wrench for all diameters of rebar. The torque values for all Terwa couplers are highlighted bellow.

Product Code	Description
PSAWR	Wrench

Reinforcement dia. (mm)	Thread (M)	Necessary Torque (Nm)
12	16	60
16	20	80
20	24	100
25	30	125
32	42	160
40	48	200

PSA Female Coupler

The PSA couplers are made of steel 20CrMo5 or equivalent and are supplied zinc plated. The couplers are marked with the company logo and the thread type. The reinforcement steel is standard B500B or B500C in accordance with BS4449 and EN 10080.
On request the PSA couplers can be produced in stainless steel or hot dip galvanised finish.
The PSA reinforcement coupler is composed of the reinforcement steel and an internally threaded sleeve which is hydraulically pressed on to the reinforcement steel using a swaging process. Used in conjunction with the TSE coupler or the PSA-PSC connector the completed coupling ensures an effectively continuous run of reinforcement steel. This method of connecting the reinforcement steel makes the PSA coupler ideal for connections to precast concrete units, continuity of reinforcement through structural joints and connections in prefabricated reinforcement cages. In addition the PSA couplers can be utilised to lift and handle precast concrete elements.

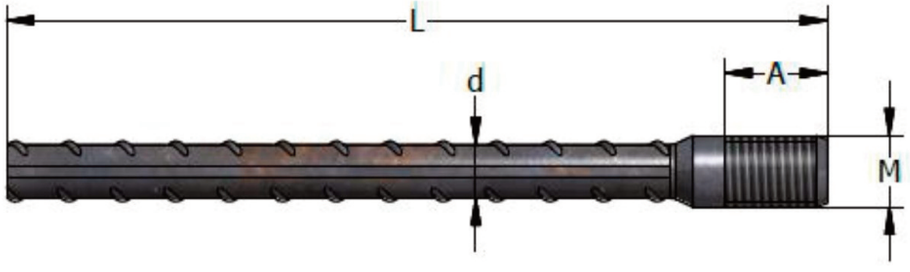


Product Code	Length	Thread Dimensions		Coupler Dimensions		Reinforcement Steel		
	L (mm)	M (Metric)	A (mm)	D (mm)	L1 (mm)	d (mm)	Tensile Force (kN)	Rated Section (mm^2)
PSA120400	**400**	16	25	22	62	**12**	56.5	113.0
PSA120600	**600**	16	25	22	62	**12**	56.5	113.0
PSA120800	**800**	16	25	22	62	**12**	56.5	113.0
PSA121500	**1500**	16	25	22	62	**12**	56.5	113.0
PSA160400	**400**	20	38	28	86	**16**	100.5	201.0
PSA160550	**550**	20	38	28	86	**16**	100.5	201.0
PSA160800	**800**	20	38	28	86	**16**	100.5	201.0
PSA161020	**1020**	20	38	28	86	**16**	100.5	201.0
PSA161440	**1440**	20	38	28	86	**16**	100.5	201.0
PSA200700	**700**	24	42	34	99	**20**	157.0	314.0
PSA201000	**1000**	24	42	34	99	**20**	157.0	314.0
PSA201280	**1280**	24	42	34	99	**20**	157.0	314.0
PSA201800	**1800**	24	42	34	99	**20**	157.0	314.0
PSA202000	**2000**	24	42	34	99	**20**	157.0	314.0
PSA202200	**2200**	24	42	34	99	**20**	157.0	314.0
PSA250700	**700**	30	52	40	117	**25**	245.5	491.0
PSA251000	**1000**	30	52	40	117	**25**	245.5	491.0
PSA251250	**1250**	30	52	40	117	**25**	245.5	491.0
PSA251500	**1500**	30	52	40	117	**25**	245.5	491.0
PSA252260	**2260**	30	52	40	117	**25**	245.5	491.0
PSA321400	**1400**	42	65	54	153	**32**	401.9	803.8
PSA321600	**1600**	42	65	54	153	**32**	401.9	803.8
PSA322300	**2300**	42	65	54	153	**32**	401.9	803.8
PSA401000	**1000**	48	72	65	188	**40**	625.0	1250.0
PSA401500	**1500**	48	72	65	188	**40**	625.0	1250.0
PSA402000	**2000**	48	72	65	188	**40**	625.0	1250.0

TSE Male Couplers

The TSE reinforcement coupler is produced from reinforcement steel in grades B500B or B500C in accordance with BS4449 and EN 10080 and is forged at one end with a rolled metric thread. The overall diameter of the threaded connection is greater than that of the parent reinforcement. This ensures that the joint has a superior tensile capacity and shear capability than that of the parent bar. This is commonly referred to as a "bar break coupler " where the connection is stronger than the bar itself.

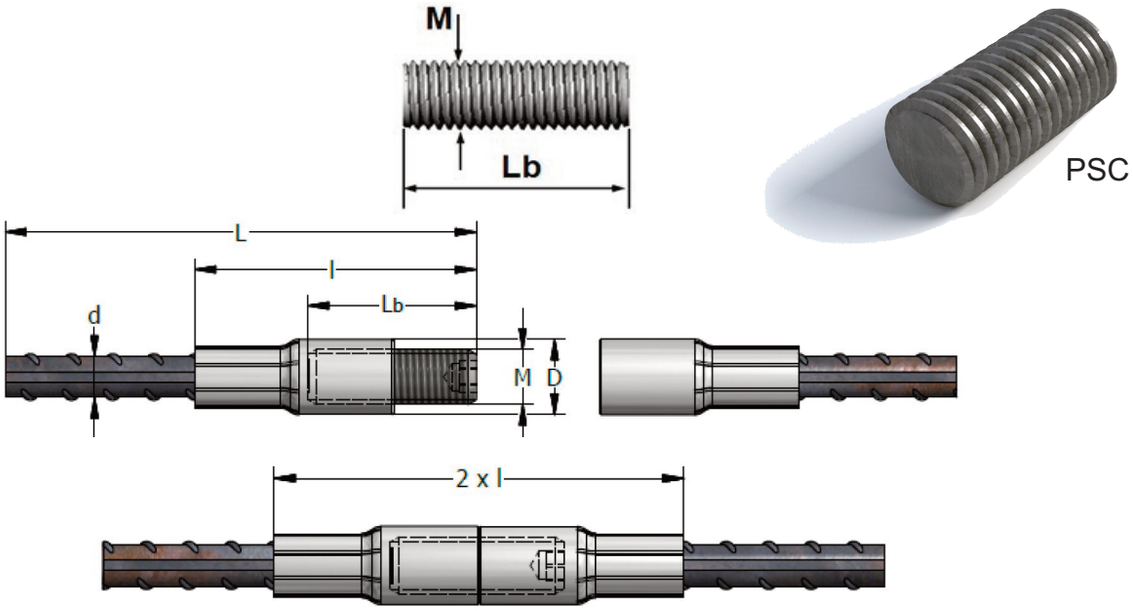
To connect with a reinforcement coupler PSA, the TSE coupler is screwed fully into the PSA coupler.



Product Code	Length	Thread Dimensions		Reinforcement Steel		
	L (mm)	M (Metric)	A (mm)	d (mm)	Tensile Force (kN)	Rated Section (mm^2)
TSE120375	**375**	16	22	**12**	56.5	113.0
TSE120575	**575**	16	22	**12**	56.5	113.0
TSE120625	**625**	16	22	**12**	56.5	113.0
TSE120800	**800**	16	22	**12**	56.5	113.0
TSE121000	**1000**	16	22	**12**	56.5	113.0
TSE121500	**1500**	16	22	**12**	56.5	113.0
TSE160520	**520**	20	28	**16**	100.5	201.0
TSE160770	**770**	20	28	**16**	100.5	201.0
TSE160825	**825**	20	28	**16**	100.5	201.0
TSE161020	**1020**	20	28	**16**	100.5	201.0
TSE161250	**1250**	20	28	**16**	100.5	201.0
TSE161440	**1440**	20	28	**16**	100.5	201.0
TSE162200	**2200**	20	28	**16**	100.5	201.0
TSE200665	**665**	24	35	**20**	157.0	314.0
TSE200965	**965**	24	35	**20**	157.0	314.0
TSE201050	**1050**	24	35	**20**	157.0	314.0
TSE201280	**1280**	24	35	**20**	157.0	314.0
TSE201800	**1800**	24	35	**20**	157.0	314.0
TSE202200	**2200**	24	35	**20**	157.0	314.0
TSE251000	**1000**	30	43	**25**	245.5	491.0
TSE251300	**1300**	30	43	**25**	245.5	491.0
TSE251500	**1500**	30	43	**25**	245.5	491.0
TSE252260	**2260**	30	43	**25**	245.5	491.0
TSE321000	**1000**	42	45	**32**	401.9	803.9
TSE321400	**1400**	42	45	**32**	401.9	803.9
TSE321650	**1650**	42	45	**32**	401.9	803.9
TSE322300	**2300**	42	45	**32**	401.9	803.9

PSC Reinforcement Connector

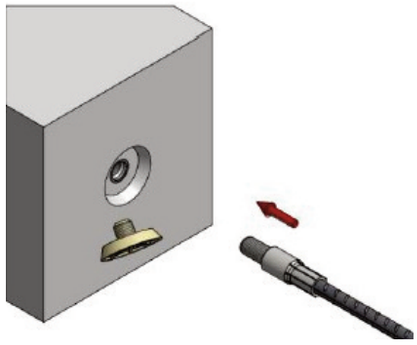
The reinforcement connector PSC is a metric threaded connector, used to convert the PSA coupler into a male coupler PSA-PSC. Two PSA couplers and a PSC connector provide a connection in the reinforcement steel for precast elements, construction joints and prefabricated reinforcement cages.The PSC connectors are made of alloyed steel 34CrMo4 (W1.7220) or equivalent. The dimensions for the PSC connection are shown in the table below.



Product Code	D (mm)	l (mm)	d (mm)	M (Metric)	Lb (mm)
PSC16	22	62	12	16	49
PSC20	28	86	16	20	75
PSC24	34	99	20	24	83
PSC30	40	117	25	30	103
PSC42	54	153	32	42	129
PSC48	65	188	40	48	143

PSC Installation Instructions

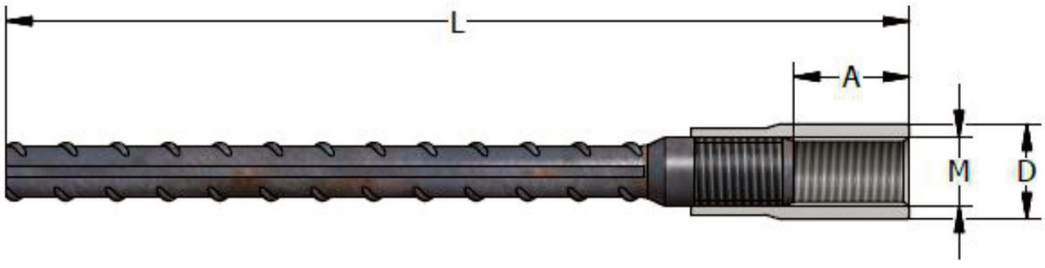
Insert and rotate the threaded PSC rod into the second PSA coupler. Tighten the threaded PSC rod using an allen key.



Insert and rotate the second PSA coupler until hand tight. Use the calibrated torque wrench to complete the connection.

PSA-SS Reinforcement Couplers

The reinforcement coupler PSA-SS is composed of a reinforcement coupler TSE and a stainless-steel KB bush.

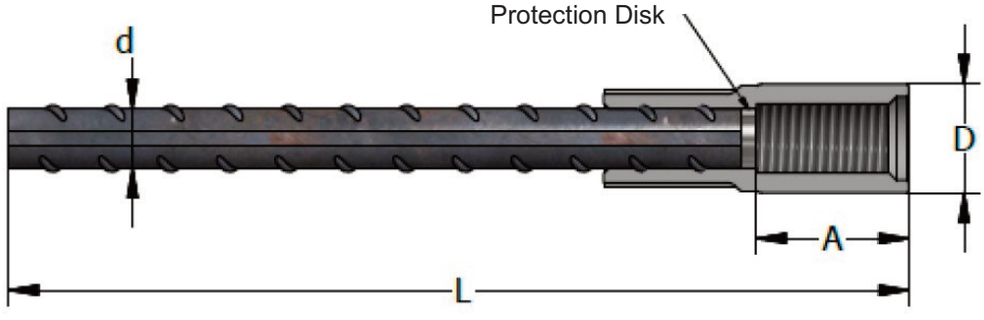


Product Code	D (mm)	A (mm)	M (Metric)
PSA-SS-M16-L	22	27	16
PSA-SS-M20-L	26	32	20
PSA-SS-M24-L	32	37	24
PSA-SS-M30-L	40	47	30

Different lengths available on request: PSA-SS-dia. d x length (L) in mm.

PSA-SS Reinforcement Coupler with Protection Disk

The reinforcement coupler PSA-WITH PROTECTION DISK is composed of a reinforcement coupler PSA and a stainless-steel disk pressed inside. This prevents corrosion occurring at the connection between the mild steel reinforcement steel and the coupler.

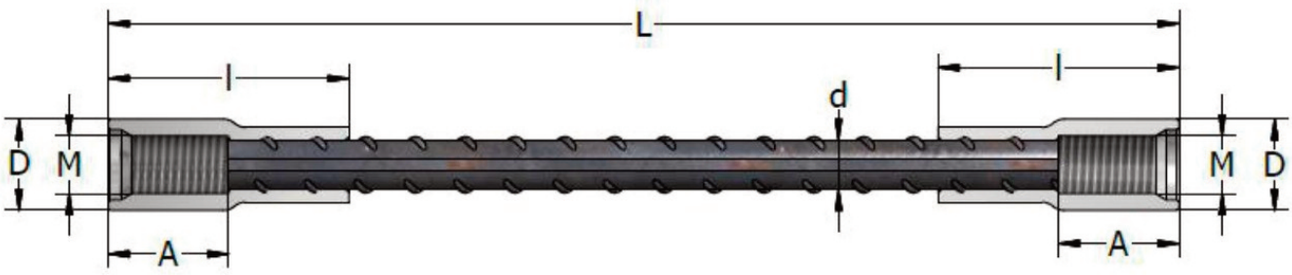


Product Code	D (mm)	A (mm)	M (Metric)
PSA-SSD-16-L	28	32	20
PSA-SSD-20-L	36	37	27
PSA-SSD-22-L	40	47	30
PSA-SSD-28-L	50	47	36

Different lengths available on request: PSA-SSD-dia. d x thread x length (L) in mm.

PSAD Double Reinforcement Couplers

The double reinforcement coupler PSAD is composed of reinforcement steel with a sleeve swaged onto both ends of the bar. The reinforcement steel is standard B500B or B500C in accordance BS4449 and EN10080. The following table gives the critical dimensions of the components. L represents the overall length of the required coupler and should be entered accordingly in any schedules.

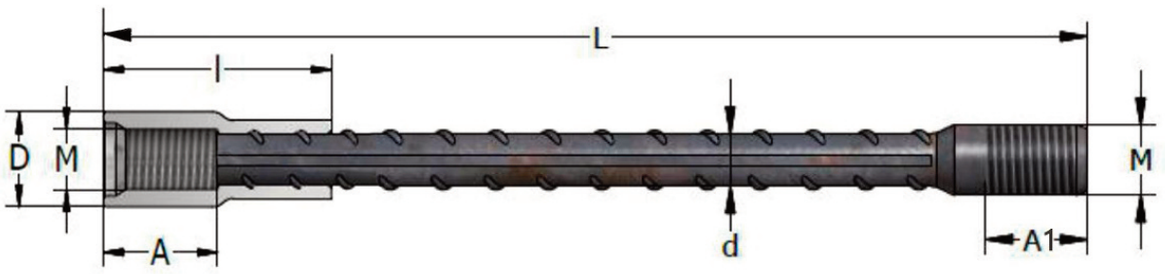


Product Code	D (mm)	l (mm)	d (mm)	M (Metric)	A (mm)
PSAD12-L	22	62	12	16	25
PSAD16-L	28	86	16	20	38
PSAD20-L	34	99	20	24	42
PSAD25-L	40	117	25	30	52
PSAD32-L	54	153	32	42	65

Dimension L can be ordered to a +0mm -10mm tolerance, remember to take into consideration any fixing accessory dimensions such as plastic nailing plates, it is advisable to order the PSAD slightly under the unit thickness to ensure the shutters will close properly.

PSTSD Combination Reinforcement Couplers

The PSTSD combination reinforcement coupler is composed of reinforcement steel with a PSA sleeve swaged onto one end of the bar, the opposite end of the bar has the TSE thread forged and rolled onto the bar. The reinforcement steel is standard B500B or B500C in accordance with BS4449 and EN 10080. The following table gives the critical dimensions of the components. L represents the overall length of the required coupler and should be entered accordingly in any schedules.

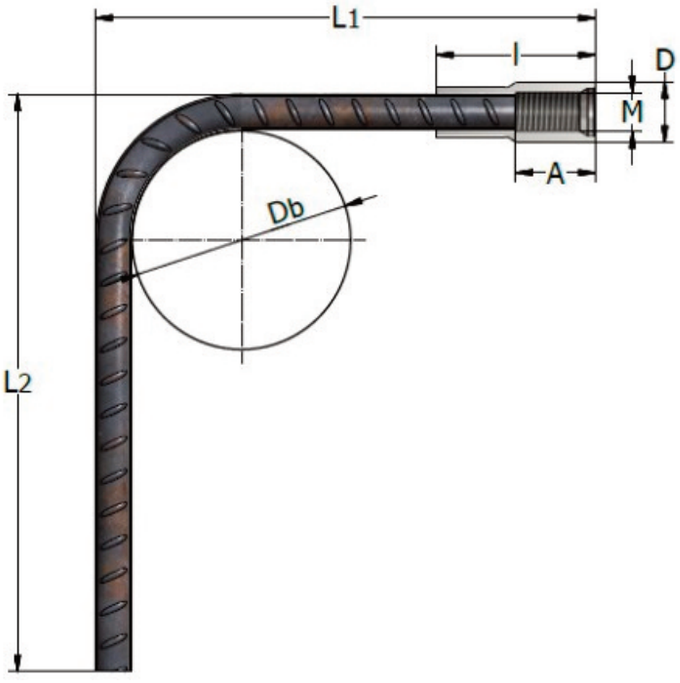


Product Code	d (mm)	M (Metric)	D (mm)	l (mm)	A (mm)	A1 (mm)
PSTSD16	12	16	22	62	25	23
PSTSD20	16	20	28	86	38	30
PSTSD24	20	24	34	99	42	38
PSTSD30	25	30	40	117	52	44
PSTSD42	32	42	54	153	65	54

Different lengths available on request: PSTSD-dia.d x length (L) in mm.

PSAG Cut and Bent Reinforcement Couplers

The PSAG coupler can be supplied cut and bent to scheduled requirements. It comprises of cut and bent reinforcement with a PSA coupler swaged onto one end of the reinforcement steel. Please see the diagram below and following table for specific dimensions and schedule dimensions.



Product Code	D (mm)	l (mm)	d (mm)	M (Metric)	A (mm)
PSAG12-L	22	62	12	16	25
PSAG16-L	28	86	16	20	38
PSAG20-L	34	99	20	24	42
PSAG25-L	40	117	25	30	52
PSAG32-L	54	153	32	42	65

Different lengths available on request: PSAG x thread x L1 x L2 in mm.

All cut and bent couplers are supplied within the cutting and bending tolerances of BS 8666:2005. The minimum former diameters recommended in this standard are detailed in the following table.

Reinforcement dia. d (mm)	Thread (M)	L1 min (mm)	L2 min (mm)	Bending dia. Db (mm)	
12	16	160	125	48	4 x d
16	20	210	130	64	
20	24	230	190	140	7 x d
25	30	300	240	175	
23	42	370	325	224	

When detailing the Threaded Couplers it is helpful to know the required length (L) of the straight reinforcement steel inclusive of the coupler prior to bending. The following formulas provide the length (L) of reinforcement bar and coupler required:

For a Single Bend
Length of Bar (L) mm = L1 + L2 – X

Double Bend
Length of Bar (L) mm = L1 + L2 + L3 -2X

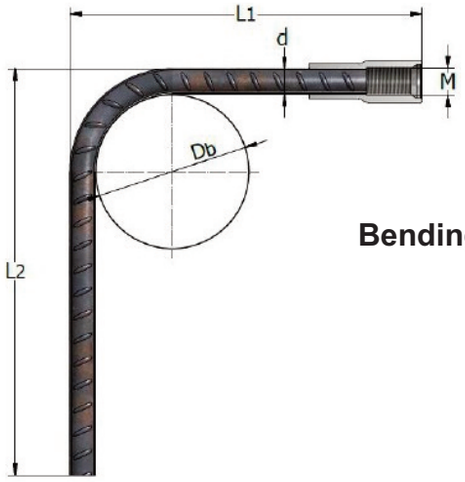
Values of X are given in the following table.

Values for X (mm) for varying bar diameters and Former diameters.

Former Dia. Db (mm)	Diameter of Reinforcement Steel (mm)				
	12	16	20	25	32
10d	25	33	-	-	-
7d	33	44	54	68	87
10d	40	54	67	84	108
15d	53	71	89	111	142
20d	66	88	110	138	176

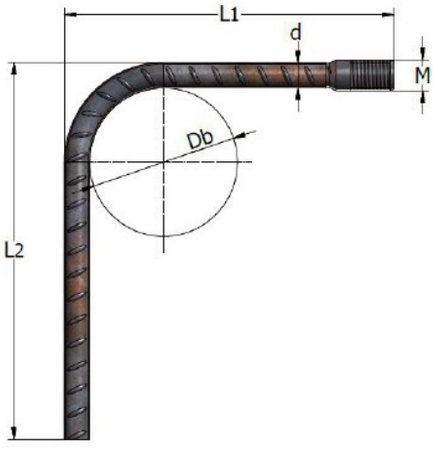
The following diagrams represent typical bending patterns for PSAG (female) and TSEG (male) couplers.

PSAG - Type 1

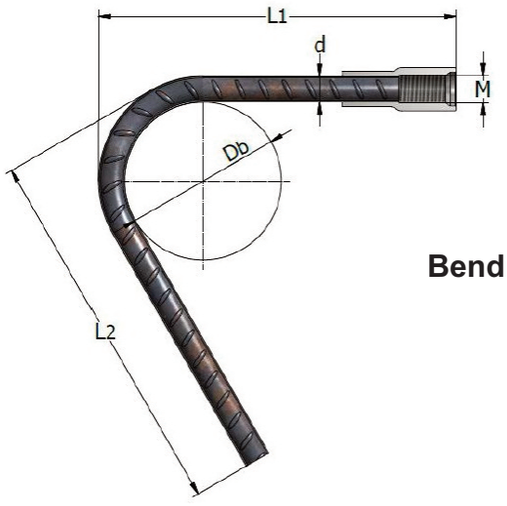


Bending angle = 90°

TSEG - Type 1

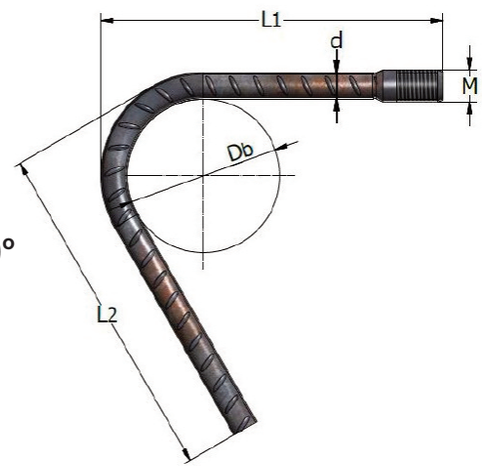


PSAG - Type 2

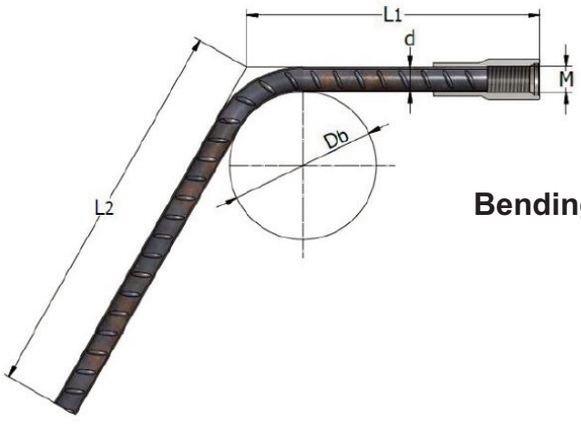


Bending angle = 45° - 90°

TSEG - Type 2

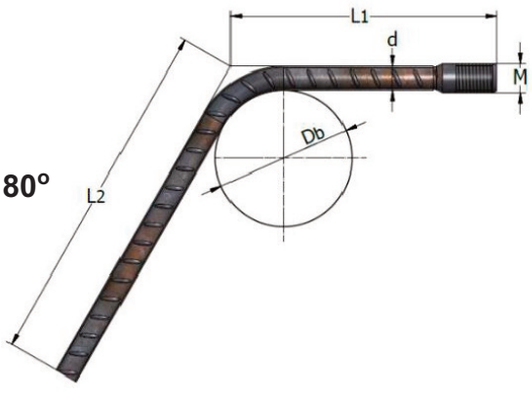


PSAG - Type 3

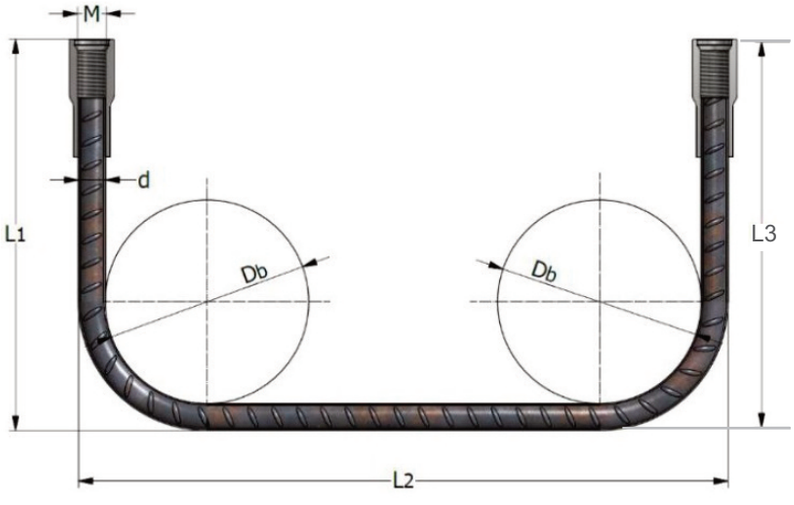


Bending angle = 90° - 180°

TSEG - Type 3



PSAGGD - Type 4



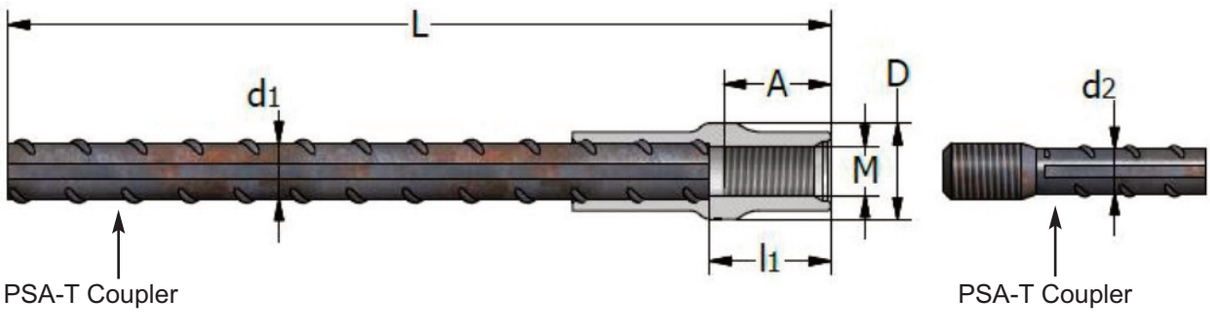
Different lengths available on request: PSADDG-dia.d x length (L1) x length (L2) x length (L3) in mm.
Note: L1 and L3 do not have to be equal.

Example Order:

Reinforcing bar dia. d (mm)	Thread (M)	Rebar Coupler Type	Type	Bending Angle	L1 (mm)	L2 (mm)	L3 (mm)	Quantity
12	16	PSAG	2	60	250	600	250	200
16	20	TSEG	1	90	300	1200	300	400
16	20	TSEG	1	90	800	400	600	200
20	24	PSAGGD	4	90	400	600	400	500

PSA-T Transition Couplers

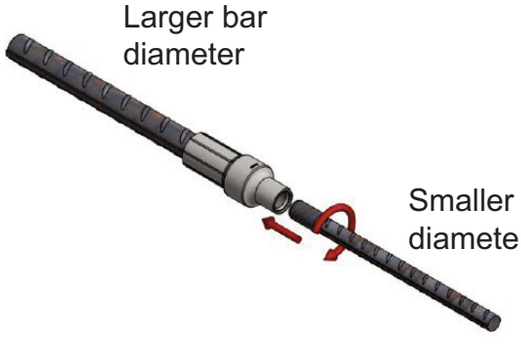
The PSA-T allows the designer to reduce or increase bar diameters to suit load requirements in different locations of an element or structure. The coupler body is swaged onto the larger bar diameter and the smaller bar diameter is threaded into the coupler in the form of a TSE male coupler or the PSC/ PSA connector.



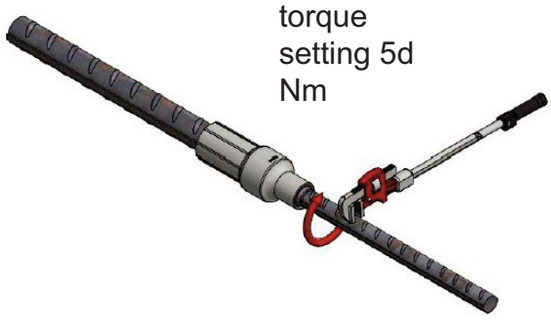
Product Code	PSA-T d1 (mm)	TSE d2 (mm)	D (mm)	l1 (mm)	A (mm)
PSA-T 16/12-L	16	12	28	39	25
PSA-T 20/16-L	20	16	34	43	38
PSA-T 22/16-L	22	16	36	49	38
PSA-T 22/20-L	22	20	36	49	42
PSA-T 25/16-L	25	16	40	53	38
PSA-T 25/20-L	25	20	40	53	42
PSA-T 28/16-L	28	16	50	56	38
PSA-T 28/20-L	28	20	50	56	42
PSA-T 28/25-L	28	25	50	56	52
PSA-T 32/20-L	32	20	54	75	42
PSA-T 32/25-L	32	25	54	75	42
PSA-T 40/25-L	40	25	65	97	52
PSA-T 40/32-L	40	32	65	97	65

Different lengths available on request: PSA-T - dia. d1/d2 - thread x length (L) in mm.

PSA-T Coupler Installation Instructions



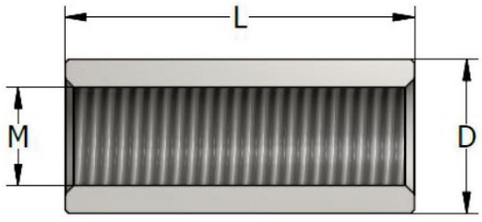
Place in and rotate the TSE or PSA-PSC coupler into the PSA-T coupler.



The connection is completed by using the calibrated torque wrench to tighten the connection to 5d Nm. The specific torque requirement for each bar diameter is given in the table on page 4.

KB - Fixing Connector

Fixing connectors KB are manufactured of steel S355JO galvanized (EV), hot dipped galvanized (TV) or of stainless steel 304 / W 1.4301 (SS2) or W 1.4571 –AISI 316Ti (SS4).

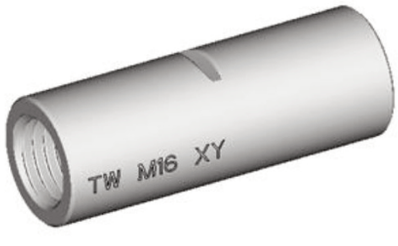


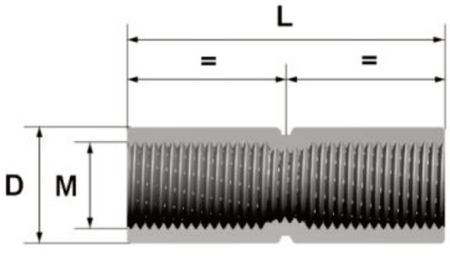
Product Code	Thread (M)	L (mm)	D (mm)
KB12x36	12	36	16
KB16x45	16	45	22
KB16x48	16	48	22
KB20x55	20	55	26
KB20x60	20	60	26
KB24x72	24	72	32
KB30x90	30	90	40
KB36x110	36	110	47.5
KB42x126	42	126	54

Available in Zinc Plated, Hot Dipped Galvanised or Stainless Steel finish.

KBL - Fixing Connector

Fixing connectors KBL are manufactured of steel S355JO (EN 10025) galvanized (EV) or stainless steel W 1.4571 –AISI 316Ti (SS4).



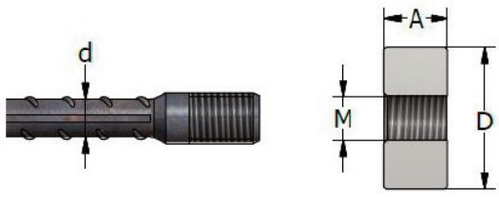


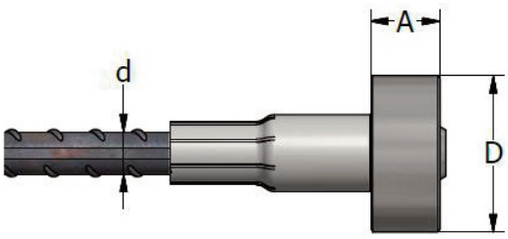
Product Code	Thread (M)	L (mm)	D (mm)
KBL12x45	12	45	16
KBL16x45	16	45	22
KBL16x60	16	60	22
KBL20x55	20	55	26
KBL20x75	20	75	26
KBL24x90	24	90	32
KBL30x90	30	90	40

Available in Zinc Plated, or Stainless Steel finish.

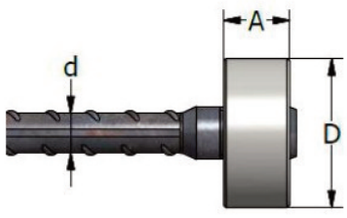
EC End Couplers

The End Coupler represents an efficient alternative for the traditional connections at slabs to columns, beams to columns or foundations to columns. They remove the requirement for L bars or hook bars reducing congestion of reinforcement at construction joints and at structural connections.





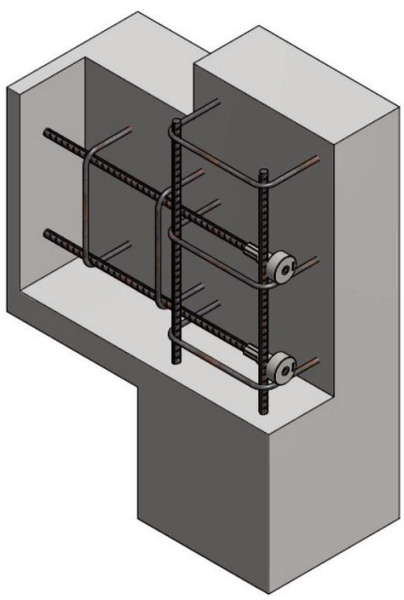
Used on PSA Coupler



Used on TSE Coupler

Product Code	Thread (M)	A (mm)	D (mm)	d (mm)
EC12	12	10	38	10
EC16	16	12	45	12
EC20	20	18	60	16
EC24	24	20	75	20
EC30	30	27	90	25
EC36	36	30	105	28
EC42	42	35	120	32
EC48	48	40	145	40

End Couplers are supplied in plain mild steel. For a galvanised plated finish, add G to end of code.

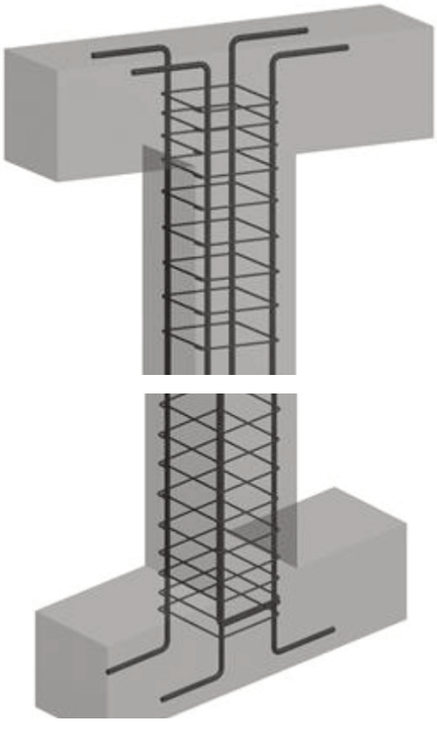


Beam Column Connection

Traditional Method

Traditional methods rely on the use of L bars and Hook bars to provide anchorage. This can pose several problems as follows:

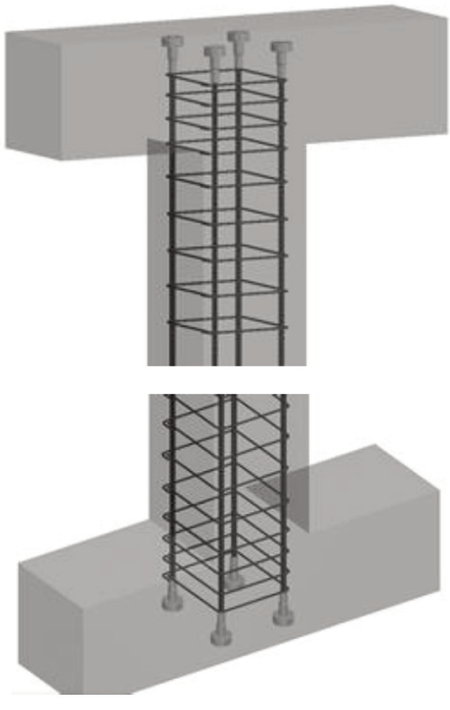
- Requires longer lengths for anchorage which increase rebar congestion.
- Increased labour and installation costs.
- More time required to fix the steel.
- Ever increasing costs as bar diameters increase. The larger the bar diameter the longer the lap length and the depth of concrete required to accommodate the bars increases.
- Danger from projecting reinforcement.



EC End Coupler

The End Coupler provides the following advantages:

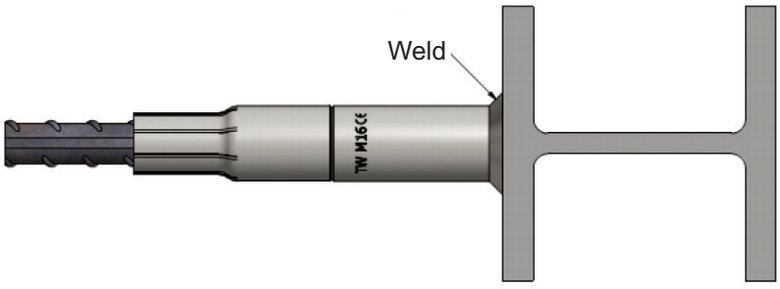
- Minimises the length of the rebar and reduces rebar congestion at joints.
- Eliminates hooked reinforcement.
- Faster and easier installation.
- Simplifies the structural design.
- Improved anchorage in the concrete element.
- Can be used in thinner elements.

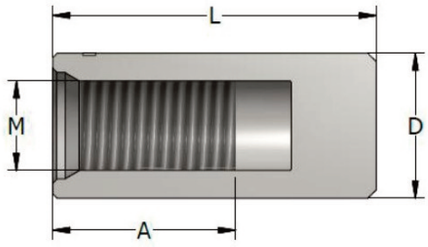


The End Coupler consists of a round steel plate which fits onto either a TSE coupler or a PSA-PSC coupler. They meet the requirements of Euro Code 2 for the embedment lengths for reinforcing steel. The end coupler is designed to provide an equivalent embedment depth of 9 times the bar diameter and a contact surface area of 3 times the cross sectional area of the reinforcement bar.

KB-W Weldable Couplers

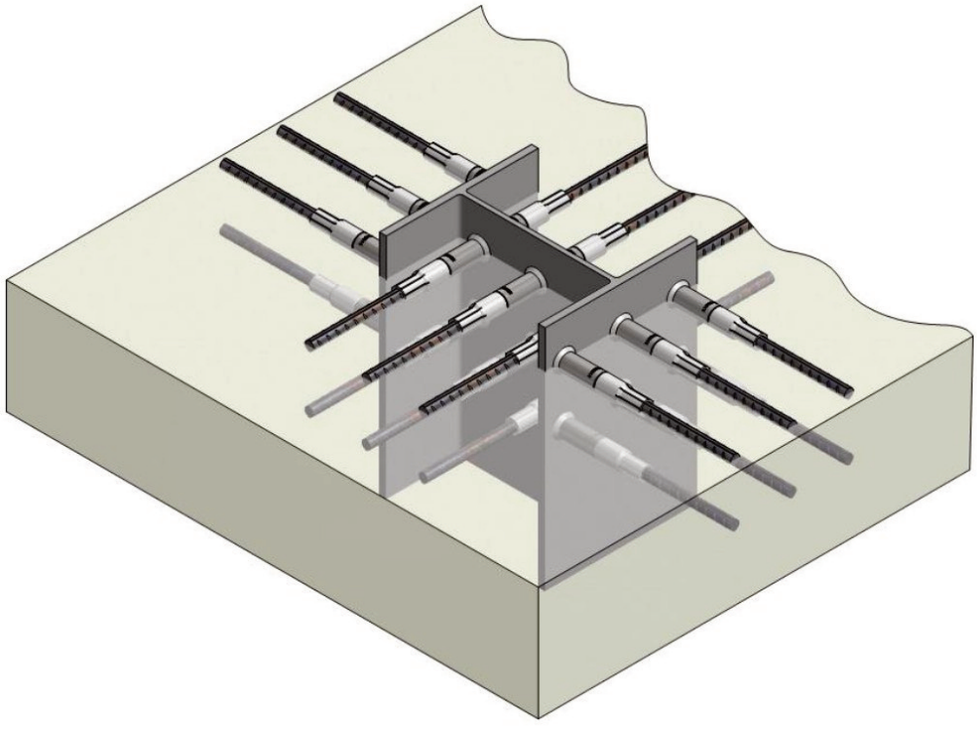
KB-W is a KB bush used to connect reinforcing bars to structural steel. The KB-W bush has a thread at one end. The other end is welded directly to the structural steel. The KB-W couplers are made of steel S355 or equivalent. The type and size of weld must be determined by the designer.





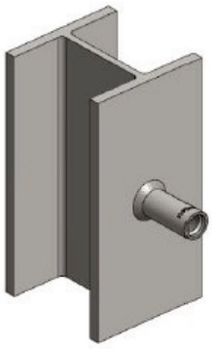
Product Code	Thread (M)	L (mm)	D (mm)	A (mm)
KB-W12	12	41	17.5	18
KB-W16	16	50	22	26
KB-W20	20	65	28	39
KB-W24	24	76	34	43
KB-W30	30	88	40	53
KB-W36	36	94	50	56
KB-W42	42	103	54	65
KB-W48	48	115	65	74

The KB-W coupler can be safely welded to structural steel or sheet piles providing end restraint for reinforcement steel in the structure. The coupler consists of a part threaded barrel manufactured from S355 steel or equivalent specification.

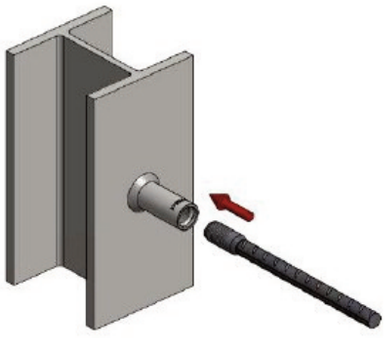


KB-W Weldable Coupler Installation Instructions

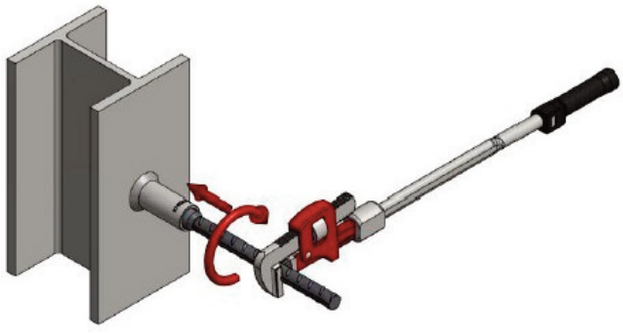
Connection with TSE Reinforcement Coupler



Weld the KB-W coupler to the steel structure.

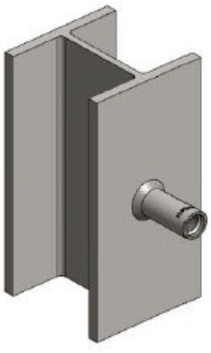


Insert the TSE coupler into the KB-W coupler.

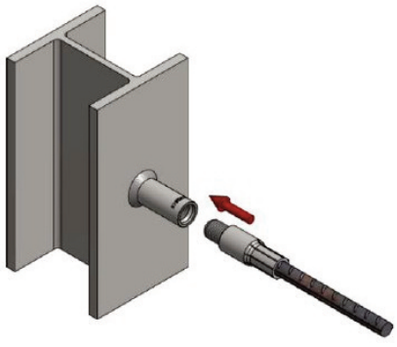


Rotate the TSE bar into the KB-W coupler until hand tight. To complete the connection, tighten the TSE bar with the calibrated torque wrench. The necessary torque for each diameter is shown in the table on page 4.

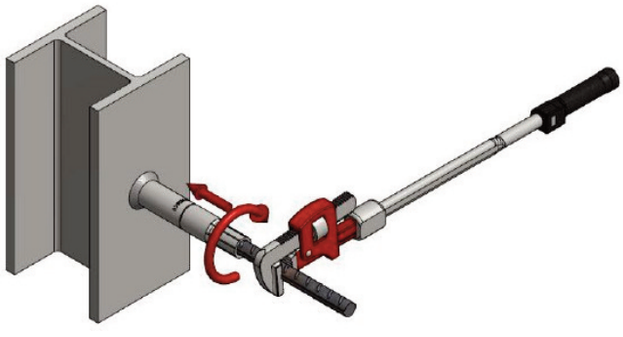
Connection with PSA-PSC Reinforcement Coupler



Weld the KB-W coupler to the steel structure.



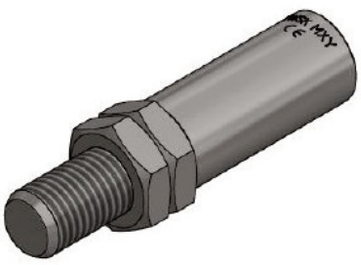
Insert the PSA-PSC coupler into the KB-W coupler.

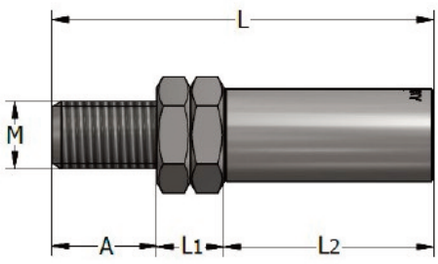


Rotate the PSA-PSC bar into the KB-W coupler until hand tight. To complete the connection, tighten the TSE bar with the calibrated torque wrench. The necessary torque for each diameter is shown in the table on page 4.

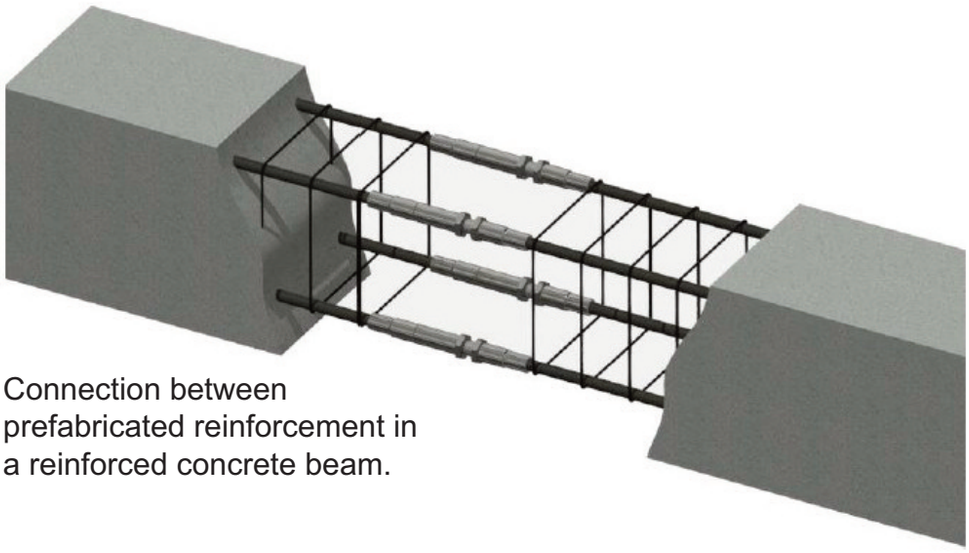
TWSK Position Couplers

TWSK position couplers can be used in combination with the Terwa couplers, and are available for steel reinforcement bars with diameters ranging from 10 to 40 mm.
It is a perfect solution for connecting two bars when it is not feasible to rotate one or both of the bars, for instance when installing L shaped male bars. They also provide a solution for the connection between insitu-reinforcement and precast concrete elements. A TWSK position coupler consists of a threaded bolt (SK), two nuts to secure the system, and a threaded bush (BK). The couplers are CE marked.





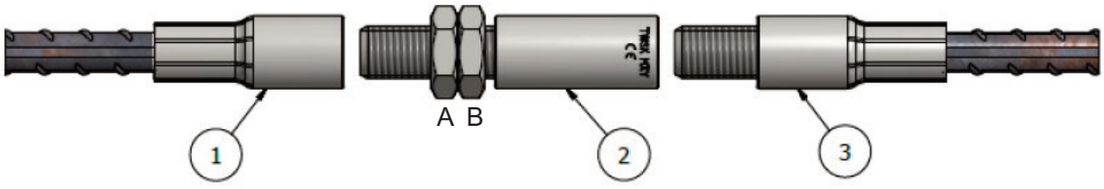
Product Code	Rebar dia. d (mm)	Thread (M)	A (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)
TWSK12	10	12	18	66	12	36	16
TWSK16	12	16	25	91	16	50	22
TWSK20	16	20	38	134	20	76	26
TWSK24	20	24	42	150	24	84	32
TWSK30	25	30	52	186	30	104	40
TWSK36	28	36	55	201	36	110	47
TWSK42	32	42	65	237	42	130	54
TWSK48	40	48	72	264	48	144	63



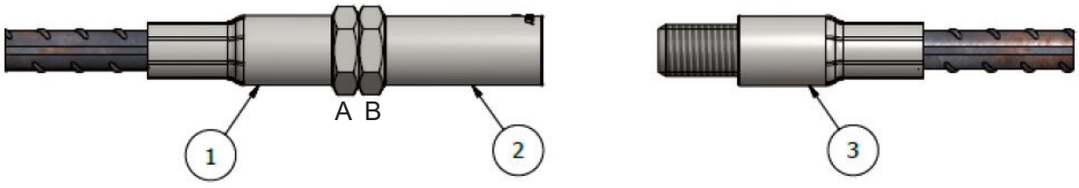
Connection between prefabricated reinforcement in a reinforced concrete beam.

TWSK Position Coupler Installation Instructions

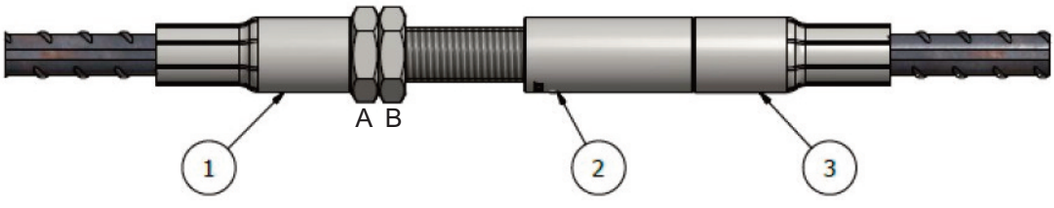
Coupler ref 1 cannot rotate and cannot move in any plane.
Coupler ref 3 cannot rotate but can move in a horizontal plane on the same axis as coupler ref 1.



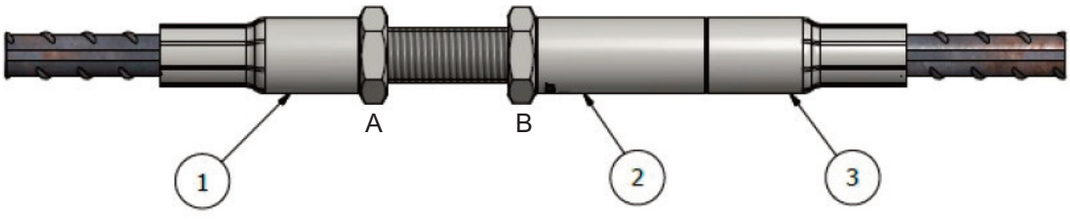
After the TWSK coupler 2 has been fixed onto the first PSA coupler 1, tighten locknut A.

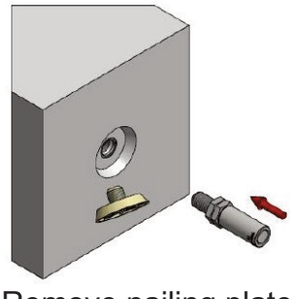


Screw the TWSK position coupler 2 onto the PSA reinforcement coupler 3. Tighten the coupler with the torque wrench.

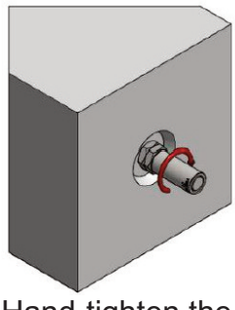


Finally locknut B should be tightened against coupler 2 with the torque wrench.

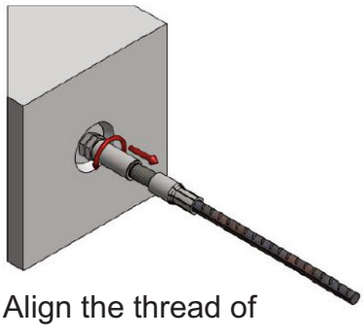




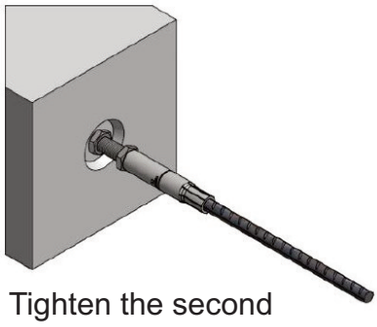
Remove nailing plate from PSA coupler in the concrete element.



Hand-tighten the threaded bar in coupler PSA. Tighten locknut of TWSK against PSA coupler.



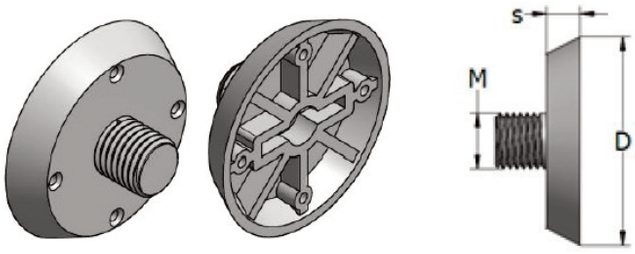
Align the thread of PSA-PSC coupler. Turn the TWSK bush until the male thread is fully engaged.



Tighten the second locknut against the TWSK bush. The necessary torque for each size of rebar is shown on page 4.

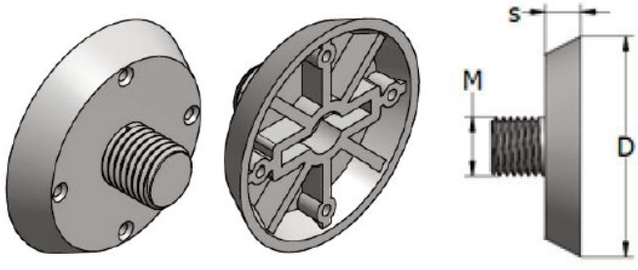
Plastic Nailing Plates

Product Code	Thread (M)	Dia. D (mm)	S (mm)
SNP12	12	55	10
SNP16	16	55	10
SNP20	20	55	10
SNP24	24	55	10
SNP30	30	70	10
SNP36	36	70	10
SNP42	42	96	10
SNP52	52	96	10



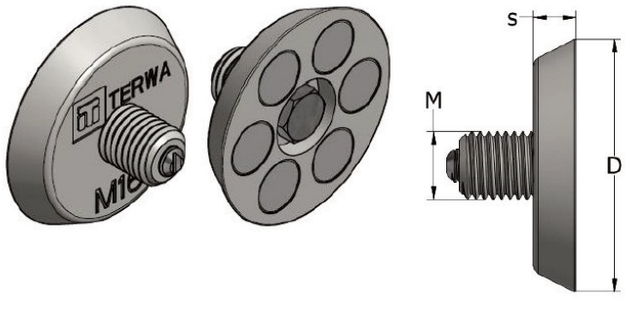
Large Plastic Nailing Plates

Product Code	Thread (M)	Dia. D (mm)	S (mm)
SNPL12	12	60	10
SNPL16	16	60	10
SNPL20	20	60	10
SNPL24	24	80	10
SNPL30	30	80	10
SNPL36	36	110	10
SNPL42	42	110	10
SNPL52	52	110	10



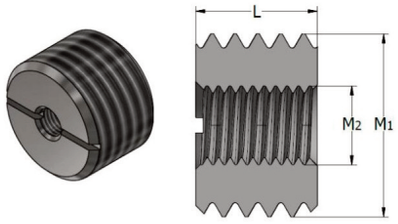
Magnetic Nailing Plates

Product Code	Thread (M)	Dia. D (mm)	S (mm)
SNPL12	12	60	10
SNPL16	16	60	10
SNPL20	20	60	10
SNPL24	24	80	10
SNPL30	30	80	10
SNPL36	36	110	10
SNPL42	42	110	10
SNPL52	52	110	10



Reducer Fixing Screw

Product Code	Thread M1 (M)	Thread M2 (M)	L (mm)
SRFS12	12	6	16
SRFS16	16	8	16
SRFS20	20	8	16
SRFS24	24	10	16
SRFS30	30	10	16
SRFS36	36	10	25
SRFS42	42	10	30

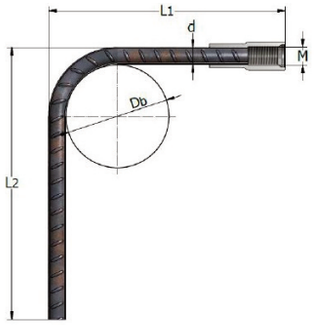


Order Schedule

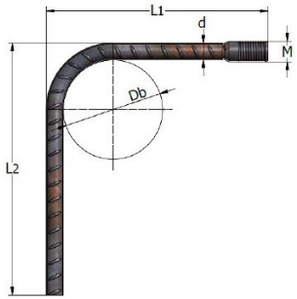
Company Name: _____ **Date:** _____ **Detailed by:** _____

Reinforcing bar dia. d (mm)	Thread (M)	Rebar Coupler Type	Type	Bending Angle	L1 (mm)	L2 (mm)	L3 (mm)	Quantity
12	16	PSAG	1	90°	250	600	-	100

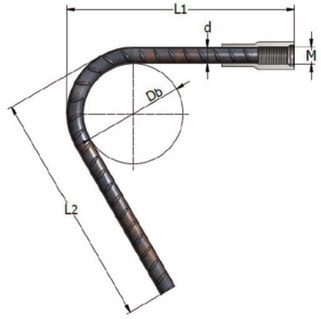
PSAG - Type 1



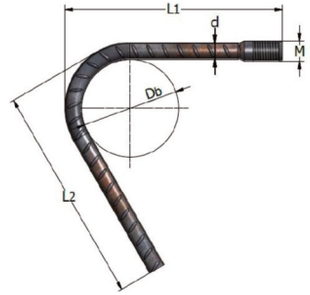
TSEG - Type 1



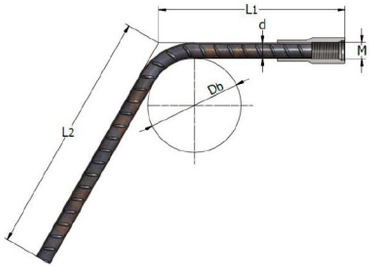
PSAG - Type 2



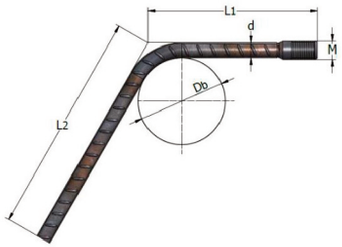
TSEG - Type 2



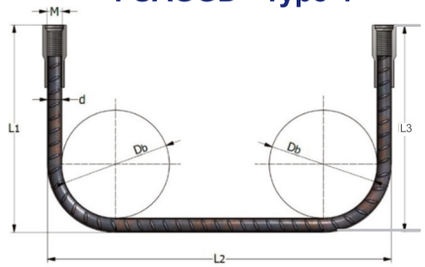
PSAG - Type 3



TSEG - Type 3



PSAGGD - Type 4



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