

## CERTIFICATE OF REGISTRATION

No.: R-2.1.9-22-17606  
First revision

Pursuant to Section 62 of the Upper Austrian Construction Engineering Act of 2013<sup>1</sup>, it is hereby confirmed that the building product

### Terwa-Patent System (PS) Reinforcement Couplers

manufactured by

**Terwa B.V.**

Kamerlingh Onneslaan 1-3, NL-3401 MZ IJsselstein

produced in the plant

**Terwa Construction Systems S.R.L.**

Strada Sanzienei, RO-507705 Ghimbav

complies with the requirements of the standard

**ÖNORM B 4707, issue 2017.06**

(and Annex A, item 2.1.9 of the Building Materials List "ÖA")

as defined in the Building Materials List "ÖA", issue 15 of August 2015, in the version of the 1<sup>st</sup> amendment.

The product is subject to a plant production control system and third-party monitoring by

BTI Bautechnisches Institut GmbH, Karl-Leitl-Straße 2, A - 4048 Puchenu bei Linz.

Number of the monitoring agreement: 17/020-01

Pursuant to Section 60, para 2, lit. 3 of the Upper Austrian Construction Engineering Act of 2013<sup>1</sup>, the certificate of registration is valid until

**26 January 2027**

The above building product is usable pursuant to Section 59 of the Upper Austrian Construction Engineering Act of 2013<sup>1</sup> and the manufacturer is herewith entitled to label it with the conformity mark pursuant to Section 64 para. 1 of the Upper Austrian Construction Engineering Act of 2013<sup>1</sup>. The certificate of registration is recognized in all Austrian provinces.

The essential characteristic values of the product are listed in the Annex to this Certificate of Registration. The Certificate of Registration including the Annex is four pages long.

*Please note: This Certificate of Registration shall cease to be valid if changes are made to the underlying standards after the transitional period defined in the Building Materials List "ÖA" has expired and, as a result, the entitlement to affix the conformity mark shall then be revoked.*

**The present certificate of registration replaces the certificate of registration  
R-2.1.9-22-17606 of 27 January 2022**

Leonding, 24 February 2022



For the Upper Austrian Provincial Government

Dipl.-Ing. Erwin Rockenschaub  
Head of the Registration Office

<sup>1</sup> Provincial Law Gazette No. 35/2013 in the version of the Provincial Act published in Provincial Law Gazette No. 32/2018

**Annex 1 to Certificate of Registration R-2.1.9-22-17606 of 24 February 2022  
 First revision**

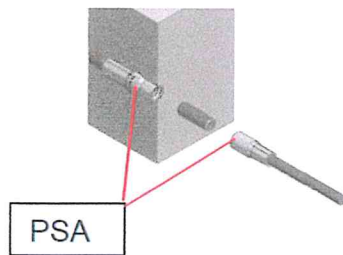
**Terwa-Patent System (PS) Reinforcement Couplers**

**Reinforcement steel grade:**

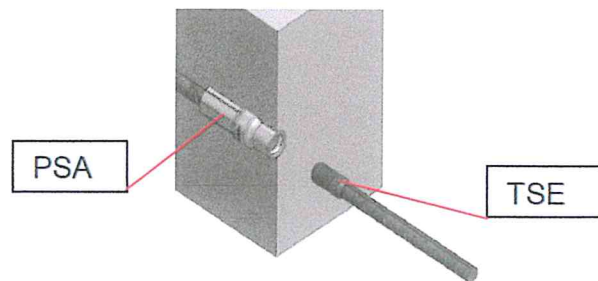
The tests were carried out with reinforcement steel grade B550B. The rebar connections described here can only be used for this steel grade and steel grades with a lower yield strength.

System overview

**Variante 1:** two PSA couplers, pressed on and connected with a threaded rod

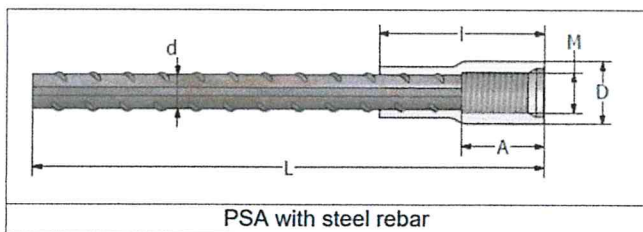


**Variante 2:** one PSA coupler, pressed on and connected to 1 TSE threaded rod



**TERWA PS Couplers - Details**

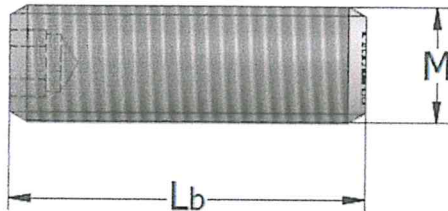
1) PSA coupling part





PSA		Bush diameter	Bush length	Rebar diameter	Thread	
Description	Product range no.	D	l	d	Metric	A
		[mm]	[mm]	[mm]	M	[mm]
PSA 10 - M12 - L	90117	17.5	50	10	12	18
PSA 12 - M16 - L	90012	22	62	12	16	25
PSA 14 - M18 - L	90638	25	74	14	18	32
PSA 16 - M20 - L	90013	28	86	16	20	38
PSA 18 - M22 - L	91248	32	92	18	22	40
PSA 20 - M24 - L	90014	34	99	20	24	42
PSA 22 - M27 - L	91246	38	107	22	27	45
PSA 25 - M30 - L	90015	42.5	117	25	30	52
PSA 28 - M36 - L	90572	50	130	28	36	55
PSA 32 - M42 - L	90016	56	153	32	42	65
PSA 40 - M48 - L	90175	67	188	40	48	72

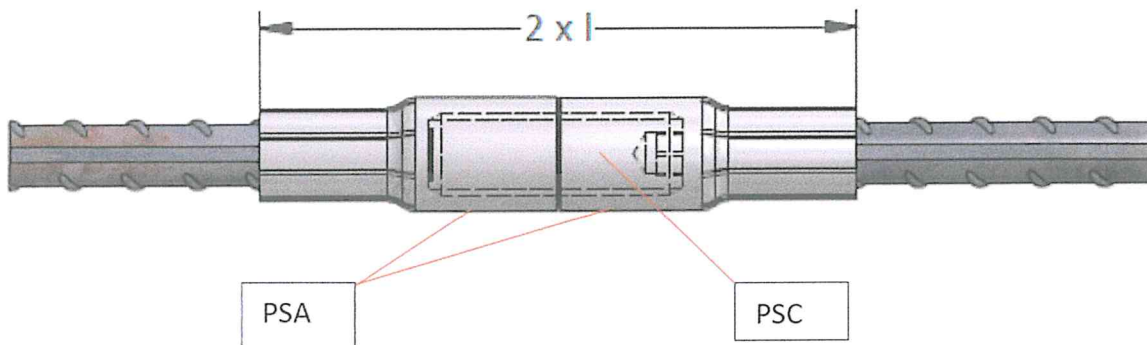
2) PSC coupling part



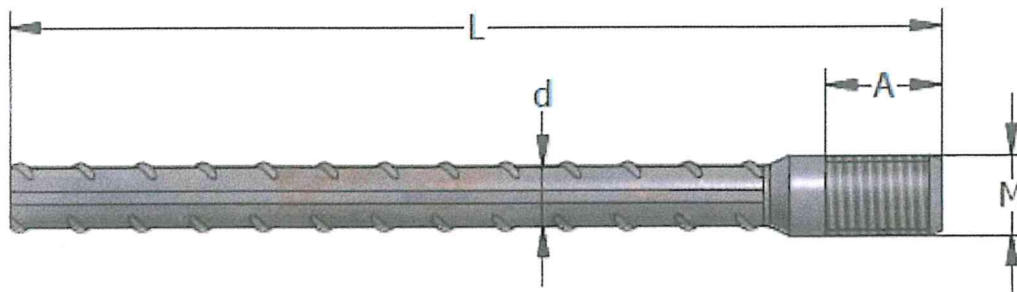
The PSC bolts are made of alloyed steel 34CrMo4 (W1.7220) or equivalent and stainless steel X6CrNiMo17-12-2 (W1.4571).

PSC				Dimensions	
Description	Product no.	Description	Product no.	M	L <sub>b</sub>
				[mm]	[mm]
PSC - M12	49257	PSC-SS - M12	66312	12	35
PSC - M16	48258	PSC-SS - M16	63673	16	49
PSC - M18	49259	PSC-SS - M18	66313	18	63
PSC - M20	49594	PSC-SS - M20	63264	20	75
PSC - M22	49261			22	79
PSC - M24	49595	PSC-SS - M24	63674	24	83
PSC - M27	49632			27	89
PSC - M30	49596	PSC-SS - M30	65558	30	103
PSC - M36	49130			36	109
PSC - M42	49597	PSC-SS - M42	66314	42	129
PSC - M48	49598	PSC-SS - M48	66315	48	143

The finished coupling consists of 2x PSA which are connected with PSC (threaded bolt).



3) TSE coupling part is directly screwed into PSA



TSE		d [mm]	THREAD	
Description	Product range no.		Metric	A [mm]
TSE 12 - M16 - L	90006	12	16	min 23
TSE 16 - M20 - L	90007	16	20	min 30
TSE 20 - M24 - L	90008	20	24	min 38
TSE 25 - M30 - L	90009	25	30	min 44
TSE 28 - M36 - L	91068	28	36	min 48
TSE 32 - M42 - L	90010	32	42	min 54

To connect with a PSA reinforcement coupler, the TSE coupler is screwed in coupler PKB using the entire length of the thread.  
 Other lengths are available on request: TSE- diam. d – thread x length (L) in mm.