

PRODUCT CERTIFICATE

Ü2358 - 2018

Herewith it is certified, that

the product **"Bewehrungsschraubanschluss PH" Mechanical couplers and anchorage of reinforcing steel bars B500B/B500C, nominal diameter: 8 to 40 mm**

of the company **Pfeifer Seil- und Hebeteknik GmbH**
Dr.-Karl-Lenz-Straße 66
87700 Memmingen

plant **see above**

is surveillanced by MPA BAU and, considering the results of the factory production control and of the external surveillance by the department „Building Materials“, satisfies the requirements of

ISO 15835-1:2009 and ISO 15835-2:2009
and declared producer values (see Annex 1).

This certificate expires on 2022-09-04.



Munich, 2017-09-05



Dr.-Ing. Bernd Wallner
(Deputy Head of Certification body)

ANNEX 1 to PRODUCT CERTIFICATE

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Product **"Bewehrungsschraubanschluss PH" Mechanical couplers and anchorage of reinforcing steel bars B500B/B500C, nominal diameter: 8 to 40 mm**

Characteristics and values:

Characteristics	Test method	Unit	Declared value	Annotation
Tensile strength of the mechanical splice: R_m	ISO 15835-2:2009 DIN EN ISO 15630-1:2011	N/mm ²	$R_m \geq 550$	
Ductility of the mechanical splice: A_{gt} - percentage of total elongation at maximum force	ISO 15835-2:2009 DIN EN ISO 15630-1:2011	%	$A_{gt} \geq 3.0$	
Slip of the mechanical splice: ΔL_s - calculated slip at $0.6 \cdot R_{eH, Nenn}$ (specified yield strength)	ISO 15835-2:2009	mm	$\Delta L_s \leq 0.10$	
"High cycle elastic fatigue loading": N - Load cycles in the dynamic fatigue test with $\sigma_{max} = 0.6 \cdot R_{eH, Nenn}$ (maximum stress) and $2\sigma_a = 70 \text{ N/mm}^2$ (stress range)	ISO 15835-2:2009	-	$N \geq 2 \cdot 10^6$	Diameter 8 to 32 mm only
"Low cycle reverse elastic-plastic fatigue loading": u_{20} - remaining deformation of reverse tensile and compression loading from earthquakes, category S1 (moderate)	ISO 15835-2:2009	mm	$u_{20} \leq 0.3$	Only for the combination of (PH-MU)-(PH-K)-(PH-MU) , diameter 8 to 28 mm , steel grade B500C
"Low cycle reverse elastic-plastic fatigue loading": u_4 und u_8 - remaining deformation of reverse tensile and compression loading from earthquakes, category S2 (violent)	ISO 15835-2:2009	mm	$u_4 \leq 0.3$ $u_8 \leq 0.6$	Only for the combination of (PH-MU)-(PH-K)-(PH-MU) , diameter 8 to 28 mm , steel grade B500C



Munich, 05.09.2017



Dr.-Ing. Bernd Wallner
(Deputy Head of Certification body)