

Undersigned representative

of producer: **WAGNER SERVICECENTRUM s.r.o.,
Teslová 2, 040 12 Košice**

of workshop: **WAGNER SERVICECENTRUM s.r.o.,
Teslová 2, 040 12 Košice**

by this proclaims, that the product: **Steel for the reinforcement of concrete – type: WAGNER Steel
Reinforcing steel in bars and coils, cold rolled B500A**

is in conformity with clause of the law nr. 90/1998 of digest of laws about the constructional products as amended by the latter acts, if it is mounted in accordance with the instructions for installation, and that the product and its production of applied technical certificate nr. **TO - 10/0039**.

Within initial testing of type were certified:

The Characteristics	Declared value or class	Protocol about testing and reference to laboratory
Limit strength $R_{p,0,2}$	Min. 500 Nmm ²	80100103 1)
Tensile strength R_m	Min. 550 Nmm ²	80100103 1)
Ratio $R_m / R_{p,0,2}$	Min. 1,05	80100103 1)
Tensibility A_{gt}	Min. 2,5 %	80100103 1)
Re-bend back the wires	the sample will bend 90 ° around the mandrel diameter 5 ds, shall be subjected to artificial ages for 1 hour at a temperature of 100 ° C and after cooling will re-bend back a minimum of about 20 ° without cracks and fracture	80100103 1)
Breaking in welds	the samples will bend 60 ° around the mandrel diameter 6 ds without cracks and fracture	80100103 1)
Strength of welded joints in shear	min. 0,3.An.Rp,0,2	80100103 1)
Permissible deviation from the nominal surface wires An	+6 %, -4 %	80100103 1)
Fatigue strength 2 σ_A	175 N.mm ⁻² for min. 1x10 ⁶ cycles without breaking	80100103 1)
Relative area of the ribs f_R	Annex 1, table 5 For diameter 10 mm min. 0,052 For other diameters of 0,056 min.	80100104 1)
Chemical composition	C max. 0,24 % P max. 0,055 % S max 0,055 % N max. 0,014 % Cu max. 0,65 %	C04/10/0043/1401CP 2)
Welding	Guaranteed when conforming to the chemical composition of CEV = max. 0,52	80100104 1)

Description of the product and the purpose and method of use in construction:

**Steel for the reinforcement of concrete — type: ribbed steel reinforcement cold rolled B500A
In coils and bars are used as reinforcement in statically load bearing
reinforced-concrete structures.**

Name and address of authorized person:

**Technický a skúšobný ústav stavebný, n. o., Authorized person SK04, Studená
3, 826 34 Bratislava**

Conformity certificate number: **SK04 – ZSV – 1310**

Conditions and period of validity of the certificate: **to 19. 05.2015** assuming the implementation of intermediate inspections once a year with a positive result

The title and addresses of laboratories, which accomplished tests:

- 1) Technický a skúšobný ústav stavebný n. o., branch Prešov, Budovateľská 53, 080 01 Prešov, Authorized person SK04, accredited testing laboratory, certificate No. S 116

Name: Róbert Wagner

Status: director

Date: 04.08.2010



signature

A handwritten signature in blue ink, appearing to read "R. Wagner".