275/2013. Govern. decree
Nr.20

ÉMI NON-PROFIT LIMITED LIABILITY COMPANY FOR QUALITY CONTROL AND INNOVATION IN BUILDING
ENGINEERING SERVICES DIRECTORATE
CONFORMITY ASSESSMENT CENTER
CERTIFICATION OFFICE

H-2000 Szentendre, Dózsa György út 26. Postal address: H-2001 Szentendre, Pf : 180.
Phone: +36 (26) 502 300 E-mail: tanusitas@emi.hu WEB: http://www.emi.hu

CERTIFICATE OF CONSTANCY OF PERFORMANCE

20–CPR–144–(C-34/2010)

In compliance with Government decree no. 275/2013. (issued on 16th July) this certificate applies to the construction product

Factory-made welded fabric manufactured by machine welding, produced by Yssel Steel SK, s.r.o., from weldable, ribbed, cold formed reinforcing steel wires in steel quality B500A (DIN 488-1:2009 and MSZ/T 339:2012.03) with Ø ≥ 5 mm nominal diameter

with product performance and intended use shown in the annex as page 2/2 of this certificate and produced by

Yssel Steel SK, s.r.o.
Mierová 21, SK-941 11 Palárikovo, Slovakia

and produced in the manufacturing plant:

Yssel Steel SK, s.r.o.
Továrenská 1, SK-943 03 Štúrovo, Slovakia

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in **National Technical Assessment no. A-260/2015 dated at 17.05.2019** under system (1+) are applied and that

the product fulfils all the prescribed requirements set out above.

This certificate was first issued* on 10.10.2018 and will remain valid as long as the test methods and/or factory production control requirements included in the National Technical Assessment, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

This certificate consists of 2 pages!

Issue: 6.
Dated at Szentendre, on 18.06.2020

L.S.

Ágnes Molnár
Head of Certification Office

* certificate was issued first on **23rd April 2012** within the period of validity of joint Ministerial Decree No. 3/2003. (25th January) BM-GKM-KvVM of Ministry of Interior, Ministry of Economy and Transport, and Ministry of Environment Protection and Water Management.

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ANNEX

Nominal diameters:

Ø ≥ 5 mm

Intended use of the product:

The steel welded fabrics may be used as reinforcement of concrete structures according to EN 10080:2005, in steel quality B500A (DIN 488-1:2009 and MSZ/T 339:2012.03).

The reinforcing steel welded fabrics can be taken into account with the parameters of BHB 55.50 (MSZ 982:1987) reinforcing steel by performing diagnostic works on building designed in accordance with withdrawn standards series no. MSZ 15022:1986 and no. MSZ 15022:1986/1M:1992.

The reinforcing steel welded fabrics can be taken into account as product in ductility class A with $R_{p0,2}$ = 500 MPa declared proof strength calculated from nominal cross-section at design works and strength calculations, according to Annex C of standard no. EN 1992-1-1:2010 (EUROCODE 2).

Essential characteristics		Performance
Rib geometry	*- a_m [mm]*	*0,03·d – 0,15·d*
	- β [°]	*between 35° and 75°*
	- Σei [mm]	*≤ d·π/4*
	- c [mm]	*0,4·d – 1,2·d*
	- fR, minimum (individual value)	*d ≤ 6 mm: 0,035* *6 mm < d ≤ 12 mm: 0,040* *d > 12 mm: 0,056*
Proof or yield strength ($R_{p0,2}$ or R_{eH}) 1)		*≥ 500 MPa (characteristic)* *≥ 485 MPa (individual)*
Tensile strength (R_m)		*≥ 550 MPa (characteristic)* *≥ 534 MPa (individual)*
Stress ratio, R_m / R_{eH}		*≥ 1.05 (characteristic)* *≥ 1.03 (individual)*
Yield ratio, $R_{e,act}$ / $R_{e,nom}$		*≤ 1.30 (individual)*
Extension (A_{gt})		*≥ 2.5 % (characteristic)* *≥ 2.25 % (individual)*
Elongation, A_5		*≥ 10.0 % (average)*
Shear strength		*≥ 0.3 $R_{p0,2}$ [MPa]*
Shear force		*≥ 0,3 $R_{p0,2}$. $S_{o,nom}$ [MPa]*
Nominal mass per metre		*(d2π/4)·7850 kg/m3*
Tolerances from nominal cross-section		*d ≤ 8 mm: ± 6.0* *d > 8 mm: ± 4.5*
Size of welded fabrics: *- wire diameter ratio* *- tolerance on width and length* *- pitch size (P)* *- tolerance on pitch size* *- overhang (u)*		*0,6 – 1,67* *± 25 mm; ± 0.5% (whichever is bigger)* *≥ 50 mm* *± 15 mm; ± 7.5% (whichever is bigger)* *≥ 25 mm (nominal)*
Batch analysis: C; S; P; N_2; Cu		*≤ 0,22; ≤ 0,050; ≤ 0,050; ≤ 0,012; ≤ 0,80*
Carbon equivalent, CEV [%]		*≤ 0,50*
1) Upper yield strength (R_{eH}), when real yield phenomena occurs, otherwise proof strength ($R_{p0,2}$)		

Issue: 6.

Dated at Szentendre, on 18.06.2020