



## CERTIFICATE

### OF CONSTANCY OF PERFORMANCE

**Certificate - No.:** 22-PC-0384-TAT-22-0224

- Product** : Steel for the reinforcement of weldable, ribbed, hot rolled reinforcing steel
- Type** : Grade B 500B, Ø8, 10, 12, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40 mm
- Intended use** : for the reinforcement of concrete structures
- Performances** : See Annex 1
- Manufacturer** : “YEŞİLYURT DEMİR ÇELİK ENDÜSTRİ VE LİMAN İŞLETMELERİ A.Ş.”  
Organize Sanayi Bölgesi Tekkeköy/SAMSUN
- Manufacturing plant** : Organize Sanayi Bölgesi Tekkeköy/SAMSUN
- Requirements** : **EN 10080:2005**  
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

In compliance with Regulation 93/68/EEC of the European Parliament and of the Council of 22 July 1993, this certificate applies to the Steel for the reinforcement of concrete

This certificate is issued having performed actions prescribed for system 1+ and confirms that the product complies with requirements set out in this certificate.

- Report Number** : 22-PC-0384-TAT-22-0224
- Date of issue** : 29.04.2022 (first issued)
- Valid until** : 28.04.2025 (with annually audits)
- Granted to** : “YEŞİLYURT DEMİR ÇELİK ENDÜSTRİ VE LİMAN İŞLETMELERİ A.Ş.”  
Organize Sanayi Bölgesi Tekkeköy/SAMSUN

**Istanbul, TURKEY, 05.05.2022**

Place & Date

Osman YILDIRIM

On behalf of TÜV AUSTRIA TURK



# ANNEX 1

Issued 05.05.2022

Certificate No: 22-PC-0384-TAT-22-0224



**Product** : Steel for the reinforcement of weldable, ribbed, hot rolled reinforcing steel

**Type** : Grade B 500B, Ø8, 10, 12, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40

Essential characteristics and performances		
Essential characteristic	Test method	Performance
Elongation $A_{gt}$ (characteristic value), %:	EN ISO 15630-1:2019	20,9 23,1
Weldability (product analysis), %: - carbon equivalent, $C_{eq}$ - limitations on the content of certain elements	EN 10080:2005 spectrometric methods	$\leq 0,38$ $\leq 0,47$ Pass
Tolerances	EN ISO 15630-1:2019	Pass
Bendability	EN ISO 15630-1:2019	Pass
Bond strength and surface geometry	EN ISO 15630-1:2019	Pass
Surface geometry of ribbed steel	EN ISO 15630-1:2019	Pass
Stress ratio $R_m / R_e$ (characteristic value)	EN ISO 15630-1:2019	1,15 1,21
Tensile yield strength $R_e$ , MPa (characteristic value)	EN ISO 15630-1:2019	554 590
Fatigue, number of cycles	EN ISO 15630-1:2019	NPD
Durability (product analysis), %: - Carbon, C - Sulphur, S - Phosphorus, P - Nitrogen, N - Copper, Cu - carbon equivalent, $C_{eq}$ :	- spectrometric methods - spectrometric methods - spectrometric methods - method of reduction melting - spectrometric methods - EN 10080:2005	$\leq 0,24$ $\leq 0,055$ $\leq 0,055$ $\leq 0,014$ $\leq 0,85$ $\leq 0,52$

Istanbul, TURKEY, 05.05.2022

Place & Date

Osman YILDIRIM

On behalf of TÜV AUSTRIA TÜRK

