



TÜV
AUSTRIA

CERTIFICATE

OF CONSTANCY OF PERFORMANCE

Certificate - No.: CAS-TAT-00082

- Product** : Steel for the reinforcement of weldable, ribbed, hot rolled reinforcing steel
- Type** : Grade B 500B and Grade B 500C
Ø8, 10, 12, 14, 16, 18, 20, 22, 24, 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**
- 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** : CAS-TAT-00082
- Date of issue** : 18.04.2025
- Valid until** : 17.04.2028 (with annually audits)
- Granted to** : **YEŞİLYURT DEMİR ÇELİK ENDÜSTRİ VE LİMAN İŞLETMELERİ A.Ş**
Organize Sanayi Bölgesi Tekkeköy, Samsun

İstanbul, TURKEY, 18.04.2025

Ali Osman ÖZVEREN

On behalf of TÜV AUSTRIA TURK



ANNEX 1

Issued 18.04.2025

Certificate No: CAS-TAT-00082



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

Type : Grade B 500B and Grade B 500C
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Essential characteristics and performances

Essential characteristic	Test method	Performance
Elongation A_{gt} (characteristic value), %:	EN ISO 15630-1:2019	5.0 7.5
Weldability (product analysis), %: - carbon equivalent, C_{eq} - limitations on the content of certain elements	EN 10080:2005 spectrometric methods	≤ 0,52 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	1.08 ≥1,15, <1,35
Tensile yield strength R_e , MPa (characteristic value)	EN ISO 15630-1:2019	485 650
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	≤ 0,24 ≤ 0,055 ≤ 0,055 ≤ 0,014 ≤ 0,85 ≤ 0,52

İstanbul, TURKEY, 18.04.2025

Ali Osman ÖZVEREN
On behalf of TÜV AUSTRIA TÜRK

