



## Laboratory Test Report

**REPORT UID:** 20200907174523-V1

**KEBS Sample Ref. No:** BS202030473

**Date :** 7 September, 2020

**1. Description of Sample:** Ribbed Bar - D12

**2. Sample Submitted by:** KEBS NAIROBI REGION-QAS

**6. Lab Ref:** KEBS/TES/MEC-NAR/M/20

**3. Customer Contact:** Joshua O. Nyabicha

**7. Date of Receipt:** 1 September, 2020

**4. Customers Ref No:** KEBS/HQ/SM/TuffSteel Ltd

**8. Date Analysis Started:** 7 September, 2020

**9. Sample Submission Form No:** 237050

**5. Customer's Address:** KEBS-NAR, NAIROBI, KENYA

**10. Additional Information provided by the customer:**

TuffSteel/Nyumba

**11. Acceptance criteria-title and number of specification against which it is tested:**

EAS 412-2: 2019 EAST AFRICAN STANDARD Steel for the reinforcement of concrete - Part 2: Ribbed bars

**12. Parameters tested and Method(s) of test: as listed in the report below:**

### LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Bend	No cracks	shall show neither rupture nor cracks visible to the a person of normal or corrected vision	KS ISO 15630-1	
2.	Mass/metre run	kg/m	0.835-0.941	EAS 412-2	
3.	Re-bend	No cracks	Shall show no sign of fracture or cracks visible to a person of normal or corrected vision	KS ISO 15630-1	
4.	Tensile strength				
I	Elongation (Grade 500)	%	21	14Min	KS ISO 15630-1
II	Specified Characteristic Value of Rm/ReH (500BWR)	Rm/ReH	1.2	1.08Min	KS ISO 15630-1
III	Yield stress (Grade 500)	N/mm <sup>2</sup>	624	500Min	KS ISO 15630-1

#### COMMENTS/REMARKS:

The sample performed as shown

Virginia Muthini - Laboratory Analyst

**FOR: MANAGING DIRECTOR**

7 September, 2020

**Date of Issue**

The results contained herein apply only to the particular sample(s) tested whose sample submission form serial number is herein quoted, and to the specific tests carried out, as detailed in this Test Report. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Managing Director, KENYA BUREAU OF STANDARDS. If undelivered, please return to the address written above.