



华南理工大学 | 土木与交通学院  
SCHOOL OF CIVIL ENGINEERING & TRANSPORTATION  
SOUTH CHINA UNIVERSITY OF TECHNOLOGY



Address: Jiaotong Building, South China University of Technology, Wushan RD., TianHe District, Guangzhou, P.R.China  
Tel: +86-20-87111030 Fax: +86-20-87114460 Zip code: 510640

## Mechanics Testing Center TEST REPORT

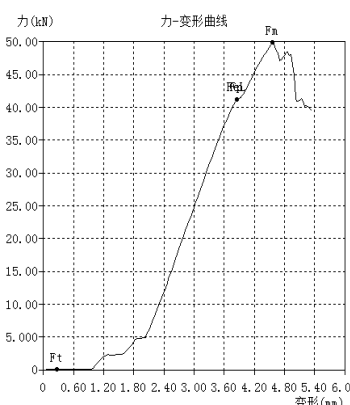
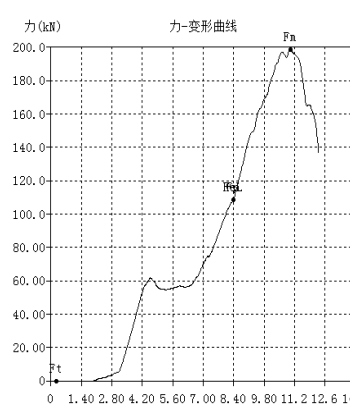
Report No. P20250612D

Applicant: Repra BV  
Commodity: GFRP dowel bars  
Size: 30mm dia. X500mm  
Batch Quantity: 45,000pcs

PO No. P20250520+P20250604  
Batch No. 202505D1  
Date: 2025-06-12

Item	Property	Test method	Standard	Test results	Conclusion
1	Diameter	vernier Caliper	30.0+/-0.10mm	29.96-30.04mm	Pass
2	Length	tape measure	500+/-2.0mm	499-501mm	Pass
3	Fiberglass content	ASTM D2584	>=70%	74.96%	Pass
4	Short beam shear strength	ASTM D4475	>=44 Mpa	46.42 Mpa	Pass
5	Transverse shear strength	ASTM D7617	>=135 Mpa	143.90 Mpa	Pass
6	24 hour moisture absorption	ASTM D570	<=0.25%	0.16%	Pass

### APPENDIX: Typical force-deflection curves and test results

Short beam shear test			Transverse Shear test		
					
Short Beam Shear test by ASTM D4475			Transverse Shear test by ASTM D7617		
Specimen No.	Breaking Force(KN)	Shear strength (Mpa)	Specimen No.	Breaking Force(KN)	Shear strength (Mpa)
#1	49.37	46.57	#1	201.19	142.38
#2	49.55	46.74	#2	196.89	139.34
#3	49.71	46.89	#3	207.88	147.12
#4	48.55	45.80	#4	204.92	145.02
#5	48.86	46.09	#5	205.76	145.62
Average	49.21	46.42	Average	203.33	143.90

Tested By:  
Name: Zhang Jie  
Date: 2025-06-12

Certified By:  
Name: Han Qiang  
Date: 2025-06-12

According to the original test reports of the testing laboratory, the test report only applies to the specimens tested.