



华南理工大学 土木与交通学院
SCHOOL OF CIVIL ENGINEERING & TRANSPORTATION
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Mechanics Testing Center TEST REPORT

Report No. P20230401D

Applicant: Repra BV
Commodity: GFRP dowel bars
Size: 30mm dia. X500mm

Samples Receipt: 2023-03-30
Batch No. 202302S
Date: 2023-04-01

Test Results

Item	Property	Test method	Standard	Test results
1	Diameter	vernier Caliper	30.0+/-0.10mm	29.95-30.05mm
2	Length	tape measure	500+/-2.0mm	498-501mm
3	Fiberglass content	ASTM D2584	>=70%	74.68%
4	Shor beam shear strength	ASTM D4475	>=44 Mpa	45.92 Mpa
5	Double shear strength	ASTM D7617	>=135 Mpa	137.66 Mpa
6	24 hour moisture absorption	ASTM D570	<=0.25%	0.17%

APPENDIX: Typical force-deflection curves and test results

Short beam shear test			Double Shear test		
Short Beam Shear test by ASTM D4475			Double Shear test by ASTM D7617		
Specimen No.	Breaking Force(KN)	Shear strength (Mpa)	Specimen No.	Breaking Force(KN)	Shear strength (Mpa)
#1	46.96	44.30	#1	198.83	140.71
#2	48.85	46.08	#2	192.31	136.10
#3	49.42	46.62	#3	194.98	137.99
#4	48.62	45.86	#4	195.71	138.51
#5	49.53	46.72	#5	190.76	135.00
Average	48.68	45.92	Average	194.52	137.66

Tested By: 张洁
Name: Zhang Jie
Date: 2023-04-01

Certified By: 韩强
Name: Han Qiang
Date: 2023-04-01



According to the original test reports of the testing laboratory

This test report only applies to the specimens tested.