

Report No	2287/8362333	This Report consists of 3 pages
Client	Ladder & Fencing Industries Horsefair Lane Newent GL18 1RP United Kingdom	
Authority & date	Quotation Acceptance from client Quotation Number BSI0000703085 Dated 8 June 2015 Equipment Number 10156650	
Items tested	GRP Style Material	
Specification	BS EN 131-2: 2010+A1:2012 Clause 5.16 (Shock test, Bending test and Dielectric test)	
Results	See Summary of Results on Page 2	
Prepared by	Mark Mayo 	Testing Team Manager
Authorized by	Damon Mackie 	Operations Support Manager
Issue Date	27 October 2015	
Conditions of issue	<p>This Test Report is issued subject to the conditions stated in current issue of <i>CP0100</i> 'Conditions of Contract for Testing'. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. 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, BSI Testing Services, who reserves the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought. Test Results contained herein have assessments made on selected sample/s tested against the Product Standard and associated clauses as detailed on page 1 and 2 of this Test Report. Further information can be made available from the authorising signatory.</p>	

TESTING, EXAMINATION AND ASSESSMENT OF GRP LADDERS SUBMITTED AS AN DIRECT TEST SAMPLE

INTRODUCTION

At the request of Ladder and Fencing Industries Ltd, the GRP Style Material detailed below, received on 22 July 2015, was tested and assessed against the requirements of BS EN 131-2: 2010+A1:2012 Clause 5.16 (Shock test, Bending test and Dielectric test), as indicated on the following pages of this Report. This request was made in Quotation Acceptance from client Quotation Number BSI0000703085 dated 8 June 2015. It is emphasized that assessments were not made against the other clauses of the Specification.

This Report only relates to the actual samples which have been tested and assessed. The results obtained do not necessarily relate to samples from the production line and in no way imply the performance or quality of the continuing production will be maintained.

The tests contained in this Report were undertaken by BSI Product Services (Bending and Dielectric strength tests) and at Intertek in Redcar (Shock test). Testing commenced on 3 August 2015

The artificial weathering was subcontracted to SKZ in Germany.

TEST ITEMS

GRP Style Material

SUMMARY OF RESULTS

The GRP Style Material met the requirements of those clauses, or parts thereof, of the Specification against which assessments were made.

EXAMINATION AND TEST**CLAUSE****ASSESSMENT****5.16 TEST METHODS FOR PLASTICS LADDERS****5.16.1 Thermoset plastics and composite materials****5.16.1.4 Shock test**

The GRP Style Material was exposed to a Xenon arc light source in accordance with EN ISO 4892-2 Method A and in compliance with Table 1

The GRP Style Material was then tested to EN ISO 179

	Specified	Actual	
Pre-ageing (kJ/m ²)	-	See Note	-
Post-ageing (kJ/m ²)	-	See Note	-
Ratio:			
$\frac{\text{Pre-ageing} - \text{Post-ageing}}{\text{Pre-ageing}} \times (100\%)$	20 max	See Note	Pass

(Impact point on weathered face)

Note: All of the samples, Aged and Unaged did not break completely during the impact test. This means that the ratio change from Aged to Unaged is effectively 0

5.16.1.5 Bending test

The GRP Style Material was exposed to a Xenon arc light source in accordance with EN ISO 4892-2 Method A and in compliance with Table 1

The GRP Style Material was then tested to EN ISO 14125

	Specified	Actual	
Pre-ageing (MPa)	-	1502.5	-
Post-ageing (MPa)	-	1499.4	-
Ratio:			
$\frac{\text{Pre-ageing} - \text{Post-ageing}}{\text{Pre-ageing}} \times (100\%)$	20 max	+0.21%	Pass

5.16.3 Dielectric test

The GRP Style Material was exposed to a Xenon arc light source in accordance with EN ISO 4892-2 Method A and in compliance with Table 1

The GRP Style Material was tested in accordance with the method described in this clause

No breakdown, puncture or temperature increase occurred during the test

Pass

End of Report