


# Test Report



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Client	Rojak Design Limited The Danesmead Business Centre 33 Fulford Cross York North Yorkshire YO10 4PB	
Authority & date	Quotation acceptance reference BSI 109644 Dated 24 October 2007	
Items tested	Ladder Accessory	
Specification	Manufacturer's Specification	
Results	See Report text	
Prepared by	G Wackett 	(Senior Engineer)
Authorized by	A D Coley	(Laboratory Manager)
Issue Date		
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## **TESTING AND EXAMINATION OF A LADDER ACCESSORY SUBMITTED AS A DIRECT COMMISSION TEST SAMPLE**

### **INTRODUCTION**

At the request of Rojak Design Limited, the ladder accessory detailed below, was tested against the Manufacturer's Specification, as indicated on the following pages of this Report. This request was made on Quotation acceptance reference BSI 109644 dated 24 October 2007.

The results detailed in this Report apply only to the particular sample tested and to the specific tests carried out. This Report does not indicate, provide or imply any measure of Approval, Certification, Supervision or Control of Surveillance by BSI to this or any related product

Date of test: 17 November 2007

Date samples received: 17 November 2007

### **TEST ITEM**

'Stopper' ladder accessory - Natural rubber foot 24" in length - Manufacturer's Ref: ST024

## EXAMINATION AND TEST

### Test for bottom end slip (Naked ladder at 75°)

#### PROCEDURE

A ladder complying with BS EN 131:Parts 1 and 2:1993 was placed at an angle of 75° on a ground horizontal substrate of UHMWPE and a vertical substrate of PTFE. A vertical load of 92kg was applied to the third rung down from the top of the ladder whilst a progressively increasing horizontal load was applied to the bottom and rung away from the wall. The maximum load achieved was recorded.

The ground substrate was cleaned with an alcohol based liquid between each test.

#### RESULTS

Test No	Horizontal load achieved (kg)
1	24.23
2	24.43
3	27.9
4	26.74
5	25.91

### Test for bottom end slip (Device augmented ladder at 75°)

#### PROCEDURE

A ladder complying with BS EN 131:Parts 1 and 2:1993 and augmented with the Manufacturer's device was set up and tested as per the previous test.

The maximum load achieved was recorded.

#### RESULTS

Test No	Horizontal load achieved (kg)
1	69.89
2	68.4
3	71.49
4	80.42
5	75.22

**EXAMINATION AND TEST (CONTINUED)****Test for bottom end slip (Naked ladder at 65°)****PROCEDURE**

A ladder complying with BS EN 131:Parts 1 and 2:1993 was placed at an angle of 65° on a ground horizontal substrate of UHMWPE and a vertical substrate of PTFE. A vertical load of 92kg was applied to the third rung down from the top of the ladder whilst a progressively increasing horizontal load was applied to the bottom rung and away from the wall.

**RESULTS**

<b>Test No</b>	<b>Horizontal load achieved (kg)</b>
1	- +

+ The ladder was unable to remain upright at 65° with the 92kg vertical load.

**Test for bottom end slip (Device augmented ladder at 65°)****PROCEDURE**

A ladder complying with BS EN 131:Parts 1 and 2:1993 and augmented with the Manufacturer's device was set up and tested as per the previous test. The maximum load achieved was recorded.

The ground substrate was cleaned with an alcohol based liquid between each test.

**RESULTS**

<b>Test No</b>	<b>Horizontal load achieved (kg)</b>
1	33.78
2	37.95
3	43.54
4	50.56
5	39.8

Note: During each application of the horizontal load, one stile of the device augmented ladder would move further in relation to other stile prior to the whole system reaching limiting friction.