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Test Report

Date 21/05/2004 Page 45018 Our Ref: WKL/RKP Number Issue

A/C No: M114

Tested For:-

T I MIDWOOD & COMPANY LIMITED

Green Lane Wardle Nantwich Cheshire CW5 6BJ

QUALITY TESTING OF TIMCO ROOFING SCREWS SHEAR, TORQUE, BEND AND PULL OUT VALUES ON VARIOUS SIZES

RELEVANT INFORMATION

Description

1: L or L with Washer	Light section self- drilling screws with self tapping thread	3mm Test Plate
2: H or H with Washer	Heavy section self – drilling screws with metric thread torque relieving slot and flutes	12.5mm Test Plate
3: LH	Light section high thread self-drilling screws with self tapping thread	3mm Test Plate
4: HH	Heavy section high thread self-drilling screws with metric thread and torque relieving slot	12.5mm Test Plate
5: DS	Light section double slash point with self tapping thread for timber	Hardwood Test Block
6: S or S with Washer	Light section self- drilling secondary screws (stitching screw)	2 x 1mm Test Plates
7: LW	Light section wing tip self-drilling screws washer faced countersunk head with ribs and self tapping thread	3mm Test Plate
8: HW		
9: BW	Light section wing tip batten fixing self-drilling screws countersunk head with ribs and self tapping thread	3mm Test Plate

Submitted By: Purchase Order No: Peter Owen 3302

Date Tested:

20/05/2004

REPORT COMPILED BY

REPORT APPROVED BY

W K Lawley Senior Mech. Test Eng.

R K Pratt Group Leader Mech. Testing

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RESULTS

Pull Out Load Test	8.56Kn	The screw was forced out of the test plate
Torsional Load Test	12.0Nm	
Shear Load Test	11.60kN	
Bend Test	Bent through 15° without fracture	

2: HEAVY SECTION SELF DRILLING SCREWS WITH METRIC THREAD AND TORQUE RELIEVING SLOT & FLUTES				
Pull Out Load Test	17.78kN	The screw fractured approximately 10mm from the underside of the head		
Torsional Load Test	14Nm			
Shear Load Test	12.84kN			
Bend Test	Bent through 15° without fracture			

Pull Out Load Test	8.59kN	The screw was forced out of the test plate
Torsional Load Test	14.5Nm	
Shear Load Test	13.25kN	
Bend Test	Bent through 15° without fracture	

4: HEAVY SECTION HIGH THREAD SELF DRILLING SCREWS WITH METRIC THREAD AND TORQU RELIEVING SLOT				
Pull Out Load Test	19.15kN	The screw fractured approximately 50mm from the underside of the head		
Torsional Load Test	15Nm			
Shear Load Test	12.64kN			
Bend Test	Bent through 15° without fracture			

Pull Out Load Test	5.23kN	The screw was forced out of the timber tes
Tun Out Boad Test	3.23KI	block
Torsional Load Test	9.0Nm	
Shear Load Test	10.18kN	
Bend Test	Bent through 15° without fracture	

Pull Out Load Test	4.050kN	The screw was forced out of the test plate
Torsional Load Test	20.0Nm	
Shear Load Test	15.5kN	
Bend Test	Bent through 15° without fracture	

7: LIGHT SECTION WING TIP SELF DRILLING WASHER FACED COUNTERSUNK HEAD SCREWS WITH RIBS AND SELF TAPPING THREADS				
Pull Out Load Test	8.69kN	The screw was forced out of the test plate		
Torsional Load Test	12.5Nm			
Shear Load Test	12.5kN			
Bend Test	Bent through 15° without fracture			

8: HEAVY SECTION WING TIP SELF DRILLING WASHER FACED COUNTERSUNK HEAD SCREWS WITH RIBS & METRIC THREAD				
Pull Out Load Test	15.83kN	The screw fractured at the head / shank junction		
Torsional Load Test	12.50Nm			
Shear Load Test	12.86kN			
Bend Test	Bent through 15° without fracture			

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WITH RIBS & COARSE SELF TAPPING THREAD				
Pull Out Load Test	7.21kN	The screw was forced out of the test plate		
Torsional Load Test	8.0Nm			
Shear Load Test	9.42kN			
Bend Test	Bent through 15° without fracture			

End of Report