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Test Report

Our Ref: GBW Number 142084-3 Issue 1 Date 30/09/2015 Page 1 of 3

A/C No: M114

Tested For:- T I MIDWOOD & COMPANY LIMITED
Green Lane
Wardle
Nantwich
Cheshire
CW5 6BJ

SALT SPRAY TESTING OF TIMCO 5.0 x 80mm CLASSIC SCREW SAMPLES

INTRODUCTION

The finished samples were submitted to the laboratory for Salt Spray Corrosion Resistance Testing in accordance with the relevant specification.

RELEVANT INFORMATION

Description:	10 off. Timco 5.0 x 80mm Classic Screw Samples
Finish:	Zinc Plated / Yellow Passivate
TIMco Code:	500 80CLAF
Specification:	Salt Spray Test in accordance with ASTM B117-11
Test Duration:	750 Hours Salt Spray Exposure
Submitted By:	Cris Tonks
Customer's Order No:	5223
Sample Receipt Date:	08/09/2015

RESULTS

Salt Spray Test (ASTM B117-11)

The samples were exposed to a neutral 5% Salt Spray, for a test period of 528 hours.

Examination after every 24 hours revealed the following observations:-

24 – 72 Hours

The samples showed no evidence of corrosion.

REPORT COMPILED BY



G B Withers
Corrosion Science
Technician

REPORT APPROVED BY



G B Withers
Corrosion Science
Technician

144 – 168 Hours

The samples showed evidence of slight white corrosion on the threads and the heads showed no evidence of corrosion.

192 – 216 Hours

The samples showed evidence of moderate white corrosion on the threads and the heads showed slight white corrosion.

240 Hours

The heads of the samples showed evidence of moderate white corrosion and the threads showed evidence of significant white zinc corrosion.

312 Hours

The heads of the samples showed evidence of significant white corrosion and the threads showed evidence of almost total white zinc corrosion.

336 – 408 Hours

Six heads of the samples showed evidence of almost total white corrosion and the threads showed evidence of total white zinc corrosion.

432 Hours

Seven heads of the samples showed evidence of total white corrosion and the threads showed evidence of total white zinc corrosion.

504 Hours

The samples showed evidence of total white zinc corrosion on the heads and red ferrous corrosion on the threads.

528 Hours

Five heads of the samples showed evidence of red ferrous corrosion, the samples were removed from test (see photograph after 528 hours).

COMMENTS & CONCLUSION

There are no pass or failure criteria defined within the standard in relevant information, this is a matter of agreement between the parties concerned.

The finish applied to the Timco 5.0 x 80mm Classic Screw Samples (Zinc Plated / Yellow Passivate) tested, **withstood** 504 hours salt spray test without the formation of red ferrous corrosion on the heads of the samples.

End of Text

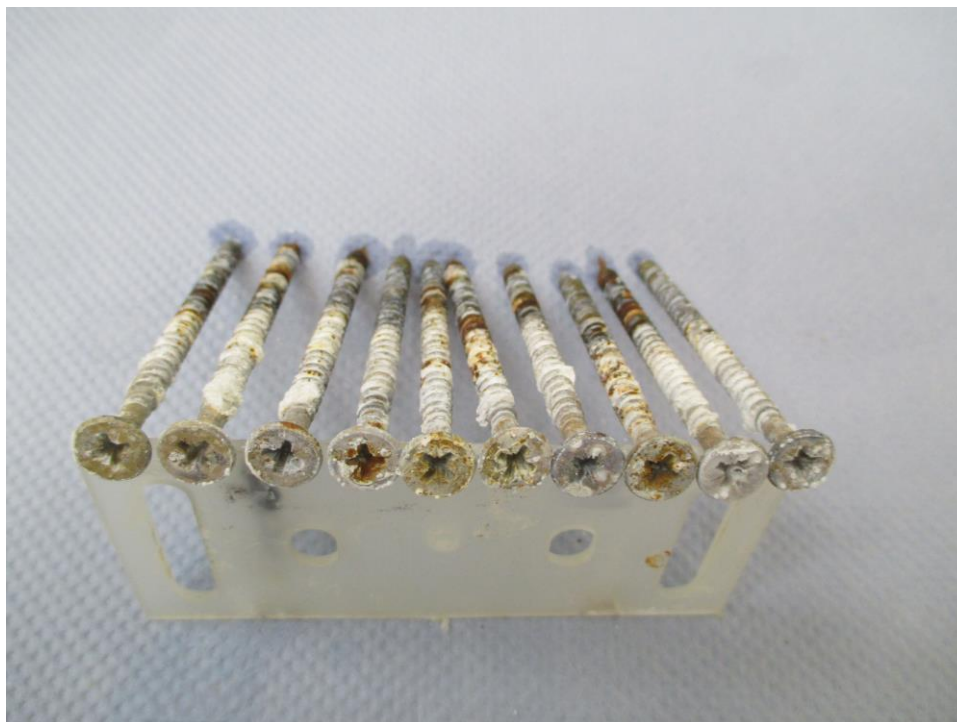


Fig 1: The photograph showing the condition of the Timco 5.0 x 80mm Classic Screw Samples (Zinc Plated / Yellow Passivate) after 528 hours salt spray test