

Test Report

Report No : L17573

Client: : Holscot Fluoroplastics Ltd
Alma Park Road
Alma Park Industrial Estate
Grantham
Lincs
NG31 9SE

Description : FT8/58W/840 Tubular Fluorescent Shatterproof Lamps

Manufacturer : Holscot Fluoroplastics Ltd

Type/Model : 93333/37559

Test Specification : BS EN 61549:2003+A2:2010 – Requirements for double capped fluorescent fragment retention lamps. Impact resistance drop test (Clause 4.4.1) Ageing (Clause 4.4.2.2) Glow-wire test (Clause 4.3.1)

Date Testing Started : 30/08/2018

Conclusion : Refer to body of report

Date of Issue : 18/09/2018

Tested by: J. ARNOLD
Position: Training & Compliance Engineer

Approved by: T. MALIK
Position: Operations Manager




INTRODUCTION

Holscot Fluoroplastics Ltd have supplied additional lamps for Impact resistance drop testing and Glow-wire testing to the clauses listed on page 1, the purpose of the testing is to revalidate the assessment conducted under original report LS1309 Final Report and demonstrate continued compliance.

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	FT8/58W/840 Tubular Fluorescent Shatterproof Lamps
Model No.	93333/37559
Number of Samples	64
Condition on Receipt	Good
Nominal Dimensions	Ø.26mm × L.1500mm
Lamp Type and Power	T8 Fluorescent, 58W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

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TEST PROCEDURE

Clause 4.4.1 – Impact resistance drop test – New lamps

The client supplied 60 new unused T8 Tubular Fluorescent lamp samples in order to conduct the drop test in accordance with clause 4.4.1 of BS EN 61549:2003+A2:2010.

Each lamp was dropped horizontally from a height of 4 metres onto a flat concrete surface. The concrete surface around the lamp was examined in order to determine whether any glass had escaped from the lamp. The lamp coating was then visually examined for signs of holes where glass could escape, and to confirm that the lamp caps had been retained by the coating.

Standard requirements

The requirement of the standard is that the lamps are considered to have passed the test if all glass fragments and the lamp caps are retained by the coating/sleeving. Glass fragments are allowed to puncture the coating/sleeving but must be retained by it.

Clause 4.3.1 – Glow-wire test

A sample of the shatterproof coating material from the lamps was then subjected to the Glow-wire test at 650°C.

Standard requirements

The requirement of the Standard is that the duration of any burning shall not exceed 30 seconds after removal of the Glow wire and any burning drop from the sample shall not ignite the underlying parts of tissue paper spread out horizontally 200mm below the sample.

Clause 4.4.1 – Impact resistance drop test – After ageing (Clause 4.4.2.2)

The aged T8 Tubular Fluorescent lamp samples were subjected to the drop test in accordance with clause 4.4.1 of BS EN 61549:2003+A2:2010.

Each lamp was dropped horizontally from a height of 4 metres onto a flat concrete surface. The concrete surface around the lamp was examined in order to determine whether any glass had escaped from the lamp. The lamp coating was then visually examined for signs of holes where glass could escape, and to confirm that the lamp caps had been retained by the coating.

Standard requirements

The requirement of the standard is that the lamps are considered to have passed the test if all glass fragments and the lamp caps are retained by the coating/sleeving. Glass fragments are allowed to puncture the coating/sleeving but must be retained by it.

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RESULTS

Table 2. Test Results

Test	Result	Comments
Clause 4.4.1 – Impact resistance drop test – New lamps	Pass	All of the new T8 lamp samples conformed to the requirements of the standard.
Clause 4.3.1 – Glow-wire test	Pass	The shatterproof coating sample did not ignite when the Glow-wire was applied to the sample. No drop occurred to the tissue paper situated beneath the test sample. The sample is therefore deemed to conform to the requirements of the standard.
Clause 4.4.1 – Impact resistance drop test – After ageing Clause 4.4.2.2	Pass	Reference is made to report LS1309 Final Report for the results of the impact resistance drop test after aging.
Note: Reference should be made to original test report LS1309 Final Report for the initial type testing results.		

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CONCLUSION

Based on the results of the tested samples the product(s) demonstrate continued compliance to the specifications listed on page 1.

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ILLUSTRATION

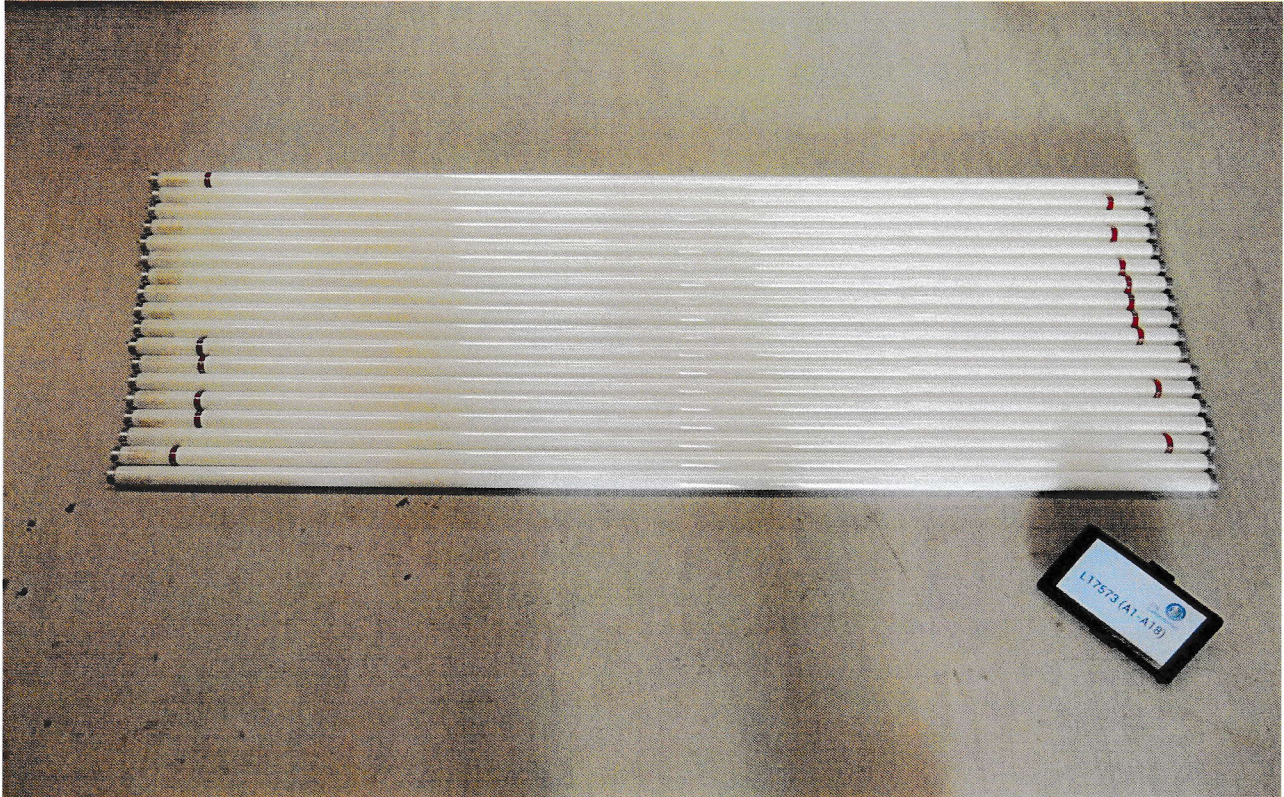


Figure 1. *Product image*

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