

CROFT HOUSE, SOUTH STREET KEIGHLEY, WEST YORKSHIRE, BD21 1EG.

Website: www.keighlevlabs.co.uk Email: info@keighleylabs.co.uk



## Test Certificate

KS

Our Ref: Certificate No:

TS 337434-6

Received:

21/09/2012

Your Ref:

Stephen Widdows

Issued:

12/10/2012

**168 HOUR CYCLIC CORROSION TEST** 

Items Tested:

Description

KLL Ref.

2 No. Handles - Fully Processed Pewter

A, B

3 No. Levers

C, D1, D2

**Test Specification:** 

BS EN ISO 11997-1: 2006

Salt Spray Test Cabinet Details: Test Conditions Requirements:

C & W Model SF/MP 1000, 1000 litres capacity

Temperature 35°C ± 2°C

Concentration of collected solution 5% ± 1% (1.0243-1.0373SG)

pH of collected solution 6.0 - 7.0

Recorded Conditions:

Temperature 35.0°C

Concentration of collected solution 1.030 - 1.035 SG

pH of collected solution 6.50 - 6.53

**Humidity Test Cabinet Details:** 

C & W Model AB6, Serial No. CWL/60092

**Test Conditions Requirements:** 

Temperature 40°C ± 2°C

Relative humidity approx. 100%

Recorded Conditions:

Temperature 38 - 40.0°C

Relative humidity 98 – 100%

Standard Atmosphere:

Recorded Conditions

Room temperature 23°C ± 2°C

Relative humidity nom. 30%

Test Requirements:

Test duration 1 cycle

One test cycle =

<u>Step</u>	Time (h)	Temperature (°C)	Condition
1	24	$35 \pm 2$	Salt fog
2	8	$40 \pm 2$	100% RH
3	16	$23 \pm 2$	(50 ± 20) % RH
4	8	$40 \pm 2$	100% RH
5	16	$23 \pm 2$	(50 ± 20) % RH
6	8	$40 \pm 2$	100% RH
7	16	$23 \pm 2$	(50 ± 20) % RH
8	8	$40 \pm 2$	100% RH
9	16	23 ± 2	(50 ± 20) % RH
10	48	23 ± 2	$(50 \pm 20) \% RH$

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## Observations:

1. At 48 hours, following step 3, all three levers (sample ref's C1, D1 and D2) showed a small amount of white corrosion to the ridged sections.

2. At the end of exposure duration, following step 10, all three levers (sample ref's C1, D1 and D2) showed a very slight increase in white corrosion to the ridged sections.

There was no corrosive attack or any other obvious changes evident to the handles (sample ref's A and B).

## Remarks

1. Digital photos are supplied on accompanying CD.

For the attention of S Widdows DJH Engineering Ltd Project House Consett Business Park Villa Real CONSETT County Durham DH8 6BP KEIGHLEY LABORATORIES LIMITED



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