

# ASSA ABLOY

**Test of:**

Safety Gate

Resistance to repeated opening  
and closing generally in  
accordance with BS6375-2

**Customer:**

Kee Safety Logistics

Phil Higgs – Technical & Supplier  
Quality Manager

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## **AUTHORISATION**

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Report issued by: Rob Goodwin (Test Engineer)

Signed:

Date:

For and on behalf of ASSA ABLOY UK Test Laboratory

Report authorised by: Ian Bridge (Test Laboratory Manager)

Signed:

Date:

For and on behalf of ASSA ABLOY UK Test Laboratory

Date report issued: 21<sup>st</sup> May 2015

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## Origin of Request

### Client Details

|              |  |
|--------------|--|
| Company Name | Kee Safety Logistics Limited   |
| Address      | Unit 2 Cradely Business Park<br>Overend Road<br>Cradely Heath<br>West Midlands |
| Post Code    | B64 7DW  |
| Contact      | Phil Higgs – Technical & Supplier Quality Manager                              |

### Order Details

|              |                          |
|--------------|--------------------------|
| Order Number | STD419461                |
| Dated        | 6 <sup>th</sup> May 2015 |

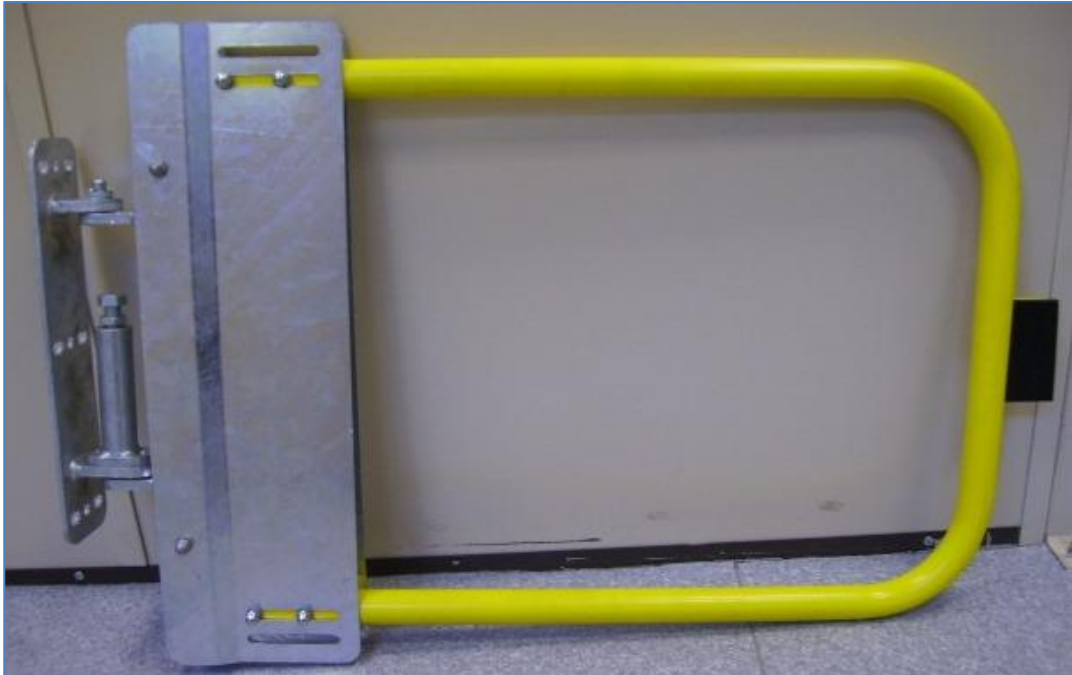
## Test Details

### Sample Details

|                     |                              |
|---------------------|------------------------------|
| Product             | Safety Gate                  |
| Model Number        |                              |
| Marking / Brand     |                              |
| Manufacturer        | Kee Safety Logistics Limited |
| Date of Manufacture | Not known                    |
| Other information   | None                         |

|                               |  |
|-------------------------------|--|
| Test Specification / Details  | Durability test of 50,000 cycles generally in accordance with BS6375-2 clause 6.5 – Resistance to repeated opening & closing |
| Date samples received         | 7 <sup>th</sup> May 2015   |
| Date test commenced           | 8 <sup>th</sup> May 2015   |
| Date test completed           | 21 <sup>st</sup> May 2015  |
| Job Number                    | 2015-066   |
| Any special test requirements | None   |

### Picture of Sample



Sample as received and in good condition

### Test Method

The gate as supplied was bolted to a 100mm x 75mm timber support and mounted in the test machine. The test rig operating arm was set to act centrally against the edge of the gate body to which a nylon pad was fixed. The arm travel was adjusted to open the gate through a minimum angle of 90 degrees at which point the arm returned to its start position allowing the gate to close under its own spring return. The cycle was then repeated.

A datum point was marked to measure any gate drop and opening force was measured pre and post test

Test rig settings were as follows;

- Force applied through operating arm - 50N maximum
- Cycle speed - 4 cycles per minute
- Reference velocity (opening) - Approximately 0.5m/s
- Rest time in open position - 2 seconds
- Opening angle - 93 degrees

### Test Equipment Used

| <b>Equipment No.</b> | <b>Description</b>  |
|----------------------|---------------------|
| LEN 126              | Door cycle test rig |
| LEN 163              | Force gauge         |
| LEN 176              | Steel rule          |

## Test Results

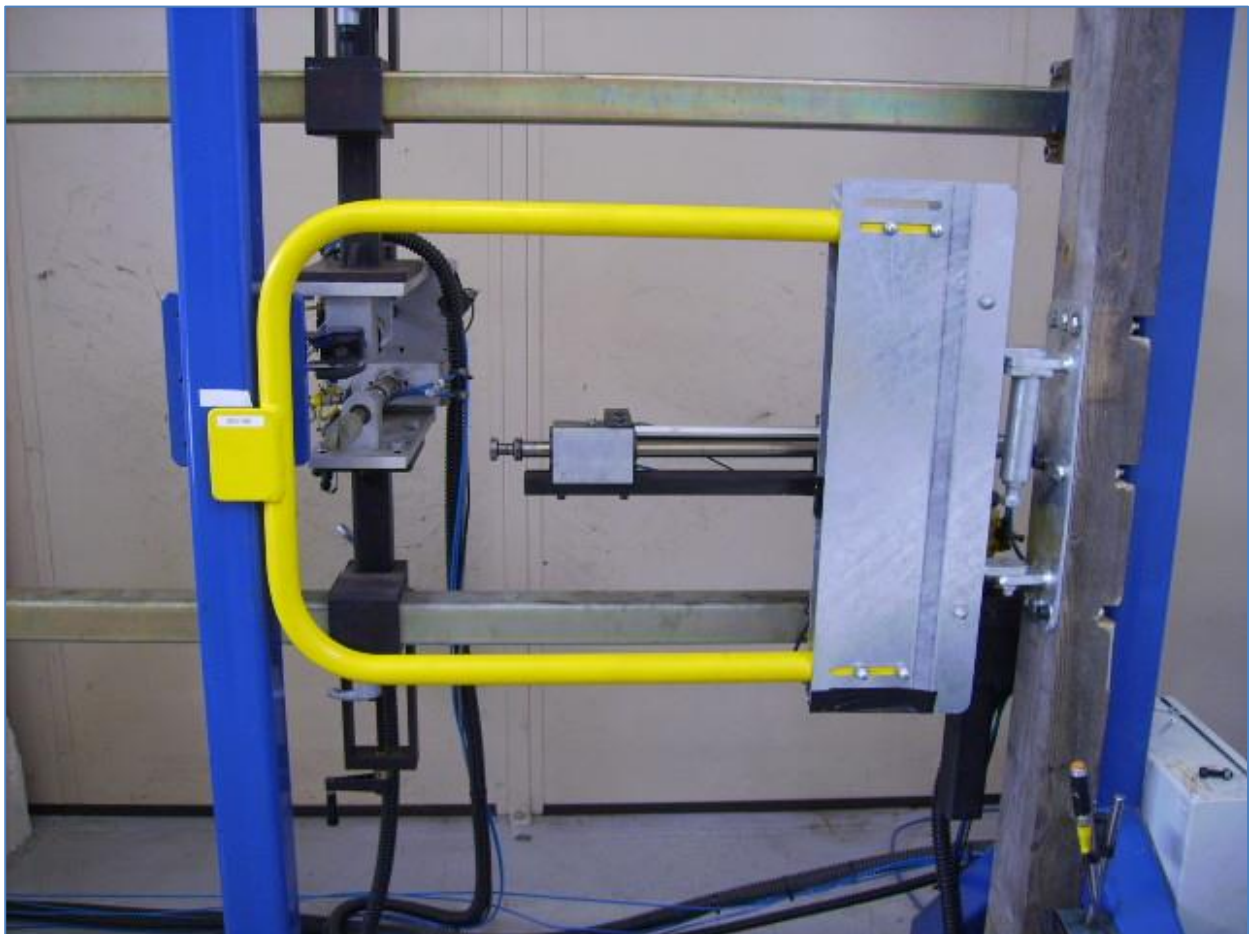
| Test                                       | Requirement   | Actual        | Assessment |
|--|---------------|---------------|------------|
| Resistance to repeated opening and closing | 50,000 cycles | 50,000 cycles | Pass       |

Force required to open gate pre test – 2.5N (measured centrally on the stop plate)  
Force required to open gate post test – 2.1N (measured centrally on the stop plate)  
Gate drop recorded post test – 0.5mm (measured on the top of the stop plate)

## Disposal

The sample will be retained for a minimum period of one week prior to disposal

## Pictures



Sample mounted in rig and on test



Pictures showing datum point before and after test