

# 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**

Tests performed by: Rob Goodwin (Test Engineer)

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 Overend Road Cradely Heath 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

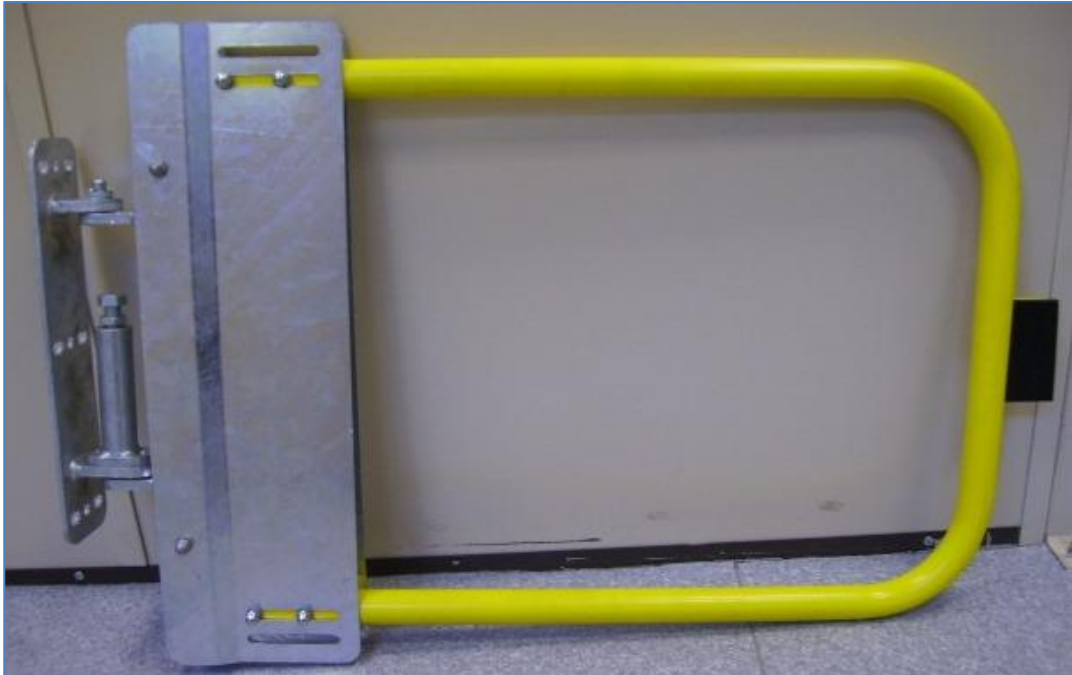
## Test Details

### 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

<b>Test</b>	<b>Requirement</b>	<b>Actual</b>	<b>Assessment</b>
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