

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: 21st May 2015

ASSA ABLOY UK Test Laboratory

School Street

Willenhall

West Midlands

WV13 3PW

Telephone + 44 (0) 1902 867730

Fax + 44 (0) 1902 867789

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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 th May 2015

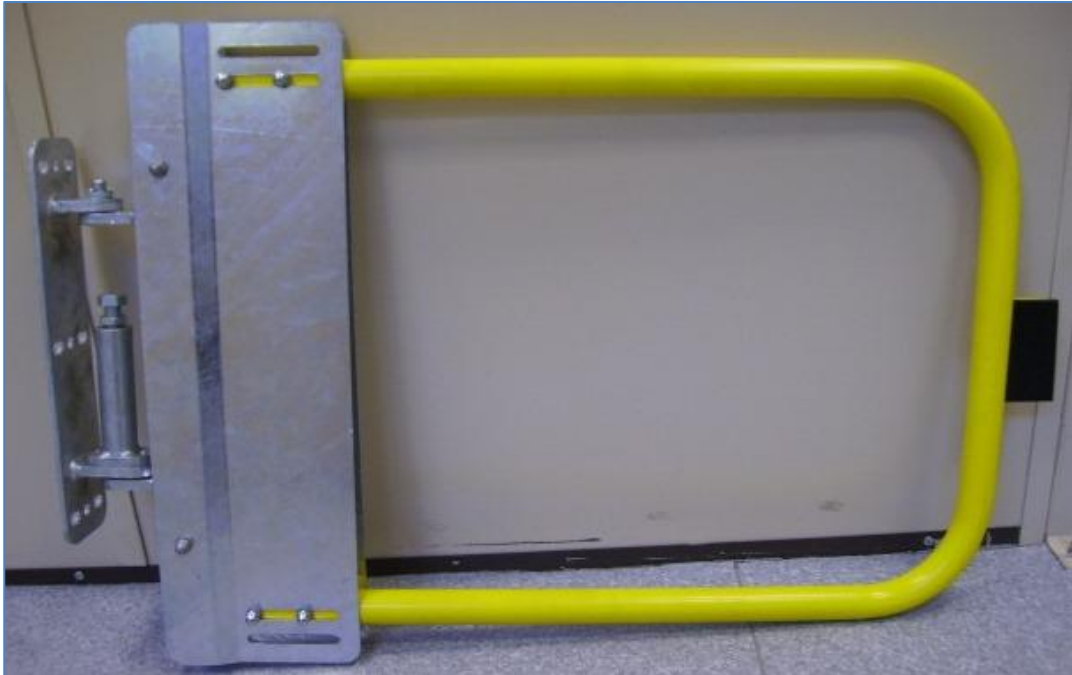
Test Details

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 th May 2015
Date test commenced	8 th May 2015
Date test completed	21 st 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

Equipment No.	Description
LEN 126	Door cycle test rig
LEN 163	Force gauge
LEN 176	Steel rule

Test Results

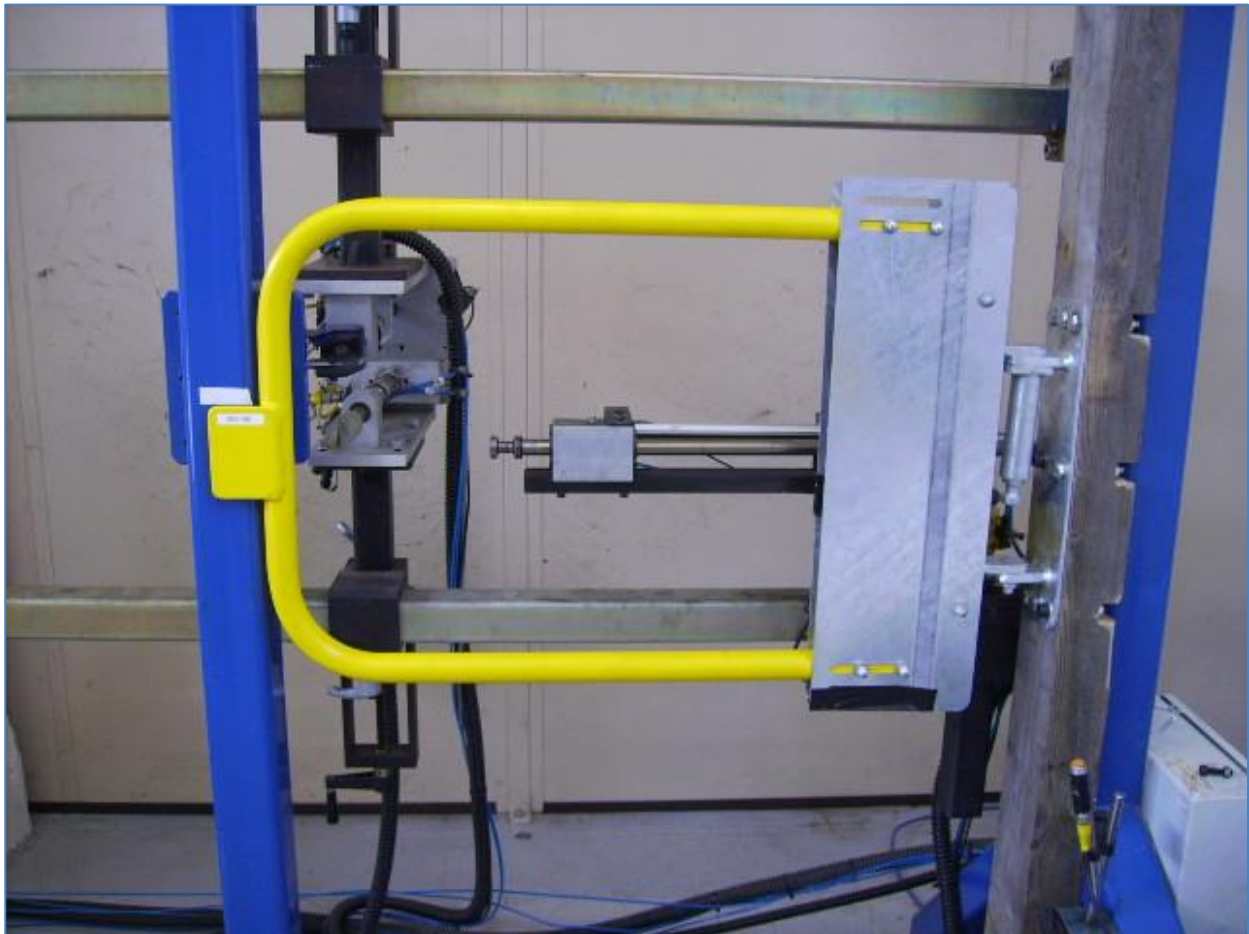
Test	Requirement	Actual	Assessment
Resistance to repeated opening and closing	50,000 cycles	50,000 cycles	Pass

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