

Test Report No. 7191147996-MEC16/02-MHA
dated 20 Oct 2016



PSB Singapore

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SUBJECT:

Indicative durability test on 'Ocius' OSH 302 stainless steel 304 shower hinge submitted by Ocius Hardware

TESTED FOR:

Ocius Hardware
Jakarta - Indonesia

DATE SUBMITTED:

04-Oct-2016

TEST DURATION:

06-Oct-2016 to 12-Oct-2016

METHOD OF TEST:

1. Adopting to BS EN 1935 : 2002, clause 7.5, Building hardware – Single-axis hinges - Requirements and test methods.

The hinge was tested for 60,000 cycles and with a 45 kg test door.

2. The test was conducted at TÜV SÜD PSB's fire test laboratory located at No. 10, Tuas Avenue 10, Singapore 639134.

Ang. David



Laboratory:
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TUV®

DESCRIPTION OF SAMPLE:

3. Two sets of shower hinge said to be 'Ocious' OSH 302 stainless steel 304 shower hinge were received. The hinges are said to be of stainless steel 304 material and shall be marked 'Ocious'. The country of origin was said to be China. Photographs of the hinge are shown in Plate 1 and a dimensioned picture of the hinge is shown in figure 1.

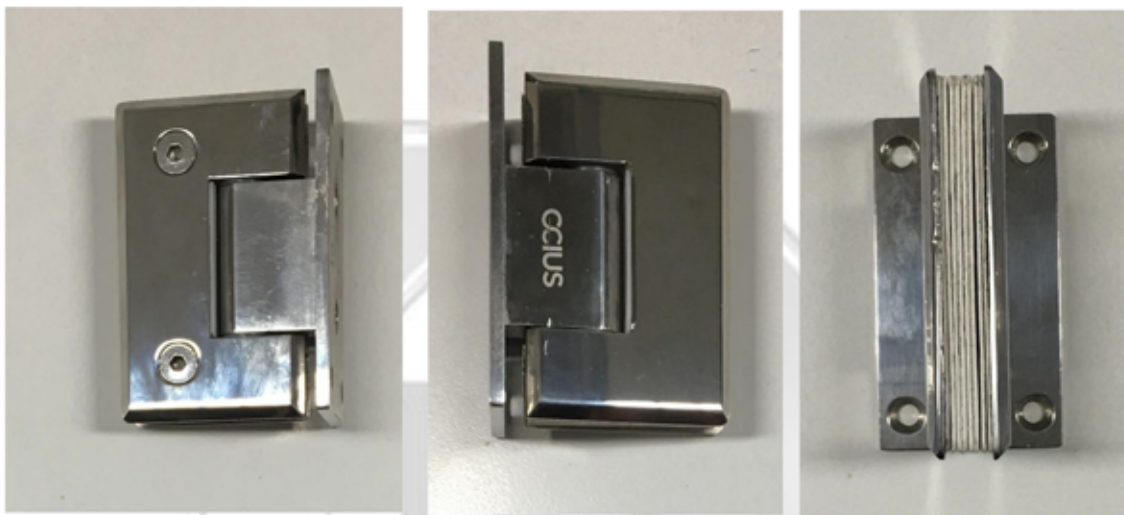


Plate 1

TEST RESULTS:

Durability test only

4. Initial measurements after 20 cycles

S/N	Description	Measurements	Requirements
1	Vertical (distance between datum point and a point on door frame)	150.0mm	-
2	Lateral (distance between datum point and a point on door frame)	150.0mm	-
3	Torque require to initiate movement of door at following opening angles: (average of 3 readings)		
	(i) $0^{\circ} \pm 5^{\circ}$	1.2 Nm	2.0 Nm(max)
	(ii) $30^{\circ} \pm 5^{\circ}$	1.1 Nm	2.0 Nm(max)
	(iii) $60^{\circ} \pm 5^{\circ}$	0.9 Nm	2.0 Nm(max)
	(iv) $90^{\circ} \pm 5^{\circ}$	1.1 Nm	2.0 Nm(max)

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5. Measurement after 10,000 cycles

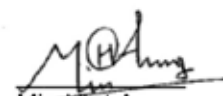
S/N	Description	Measurements	Requirements
1	Vertical (distance between datum point and a point on door frame)	150.1mm (Increased by 0.1mm)	-
2	Lateral (distance between datum point and a point on door frame)	150.0mm (no change)	-
	Limits of allowable wear	Comply (Values are within shaded area of figure G.2.)	Shall comply with requirement of cl. 5.4j of EN 1935
3	Torque require to initiate movement of door at following opening angles: (average of 3 readings)		
	(i) 0°± 5°	1.1 Nm	2.0 Nm(max)
	(ii) 30°± 5°	0.9 Nm	2.0 Nm(max)
	(iii) 60°± 5°	0.9 Nm	2.0 Nm(max)
	(iv) 90°± 5°	0.9 Nm	2.0 Nm(max)

6. Measurement after 60,000 cycles

S/N	Description	Measurements	Requirements
1	Vertical (distance between datum point and a point on door frame)	150.2mm (Increased by 0.2mm)	-
2	Lateral (distance between datum point and a point on door frame)	150.0mm (no change)	-
	Limits of allowable wear	Comply (Values are within shaded area of figure G.2.)	Shall comply with requirement of cl. 5.4j of EN 1935
3	Torque require to initiate movement of door at following opening angles: (average of 3 readings)		
	(i) 0°± 5°	1.7 Nm	2.0 Nm(max)
	(ii) 30°± 5°	1.6 Nm	2.0 Nm(max)
	(iii) 60°± 5°	1.8 Nm	2.0 Nm(max)
	(iv) 90°± 5°	1.6 Nm	2.0 Nm(max)

CONCLUSION:

8. Adopting to BS EN 1935 : 2002, clause 7.5, Building hardware – Single-axis hinges, the results obtained show that the hinge tested **meet with the durability test requirements.**


Min Htet Aung
Higher Associate Engineer

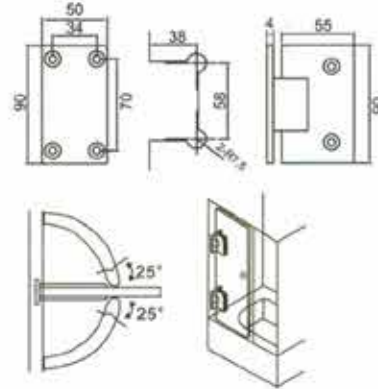

David Ang
Product Manager
(Fire Property)
Mechanical

- | | |
|--|---|
|  产品材质：优质不锈钢
Material:Quality stainless steel |  适合门宽：800-1000mm
Door thickness:800-1000mm |
|  表面处理：亮光、砂光
Finish:Bright: sanding |  承受重量：40KG/对
Bearing:40KG/Pair |
|  适合门厚：8-12mm
Door thickness:8-12mm |  适合范围：钢化玻璃门
Available For: toughened Glass door |
|  产品特性：门关至 25° 时，门会自动关闭。
Features:upon turning door 25°, the door will close automatically. | |



OSH - 302

Square bevel 90° double bathroom glass clamp



All dimensions in mm
Scale:Not to Scale

Figure 1: Shower Hinge

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July 2011

