

TECHNICAL REPORT



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Our Ref: **TSCAF12629**
Date: 21 August 2006
Delivery Date: 11 August 2006
Test Dates: 14 – 18 August 2006

For the attention of Derek Ward

SAMPLE(S) FOR TEST :

One, Self closing adjustable hinges (Ref SCH)

TEST REQUIREMENTS :

FIRA 80,000 Cycle Fatigue Test Regime
(UKAS accreditation claimed by *Technical Equivalence*)

RESULT :

PASS

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DESCRIPTION

Item: Self Closing Adjustable Hinges (Ref SCH)

Supplied by: Envirograf

See Plates: One

Overall Dimensions: 755 mm wide x 1980 mm High x 35 mm Deep

Item	Description
Number/description of doors	One 14kg test door (28 kg added to reach required 42kg)
Hinge type/opening angle	Three self-closing adjustable hinges.
Other information	100 mm Long x 45 mm Wide x 2.5 mm Thick Hinges secured to door via 8 countersunk screws per hinge.

All dimensions are approximate.



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FIRA 80,000 Cycle Fatigue Test Regime for Self Closing Hinges (Fire Doors etc.)

The strength and durability tests required were carried out in accordance with the FIRA Test Method. Details of the loads applied and their positions of application are retained at FIRA and are available on request.

Item: Self Closing Adjustable Hinges (Ref SCH)

Initial Inspection: No apparent faults.

Conditioning: N/A

TEST	DESCRIPTION	RESULT
Wear and Fatigue Test	80,000 cycles	PASS

COMMENTS

The door was cycled from open to shut for 80,000 cycles.

The door was opened 400 mm, then allowed to close and latch, via the self-closing mechanism for each cycle. At no point was the self-close mechanism forced at any point within its travel.

Small deposits of wear were noted below the hinges on completion of the 80 000 cycles, but this did not affect the performance of the hinges.

In extreme weather conditions the ambient test temperature and/or humidity may fall outside the requirements of the standard. Such changes have not been shown to affect the validity of the results. Details of the ambient conditions at time of test are available on request.



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CONCLUSION

The Self-Closing Adjustable Hinges (Ref SCH), as previously described, successfully satisfied the applicable test requirements from FIRA 80,000 Cycle Fatigue Test Regime for Self-Closing Hinges.

Tested by: Aaron Hull
Reported by: Aaron Hull
Approved by: Liam Jones
Section Leader - Cabinets

A handwritten signature in black ink, appearing to read 'Liam Jones', enclosed within a large, hand-drawn oval.

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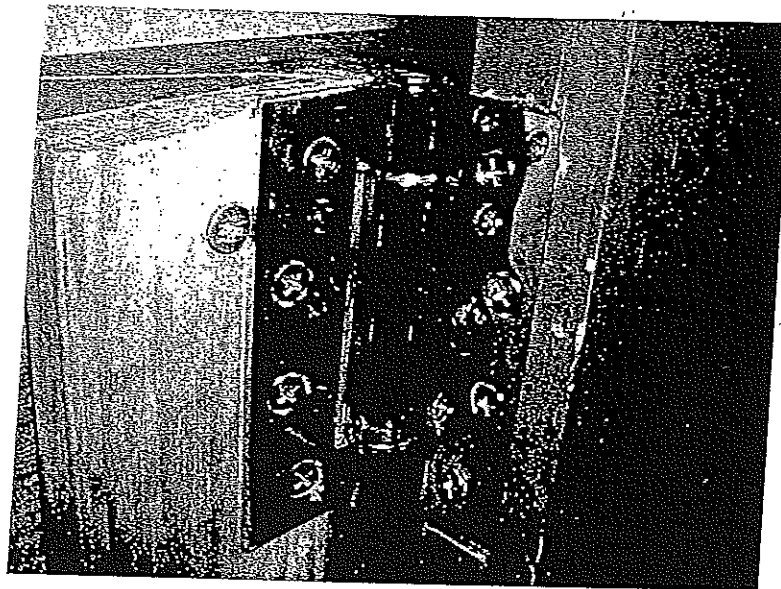


Plate 1: Self Closing Adjustable Hinges (Ref SCH)

