

# TECHNICAL REPORT



Maxwell Road, Stevenage,  
Hertfordshire SG1 2EW, England  
Telephone +44 (0) 1438 777700  
Facsimilie +44 (0) 1438 777800  
e-mail: info@fira.co.uk  
website: www.fira.co.uk

## Envirograf

Environmental Seals Limited  
Envirograf House  
Barfreestone  
Dover  
Kent  
CT15 7JG

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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Hughenden Valley, High Wycombe,



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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.

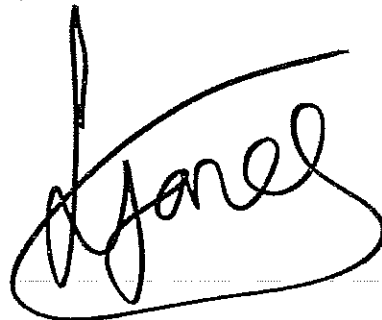


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## CONCLUSION

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, loopy oval scribble.

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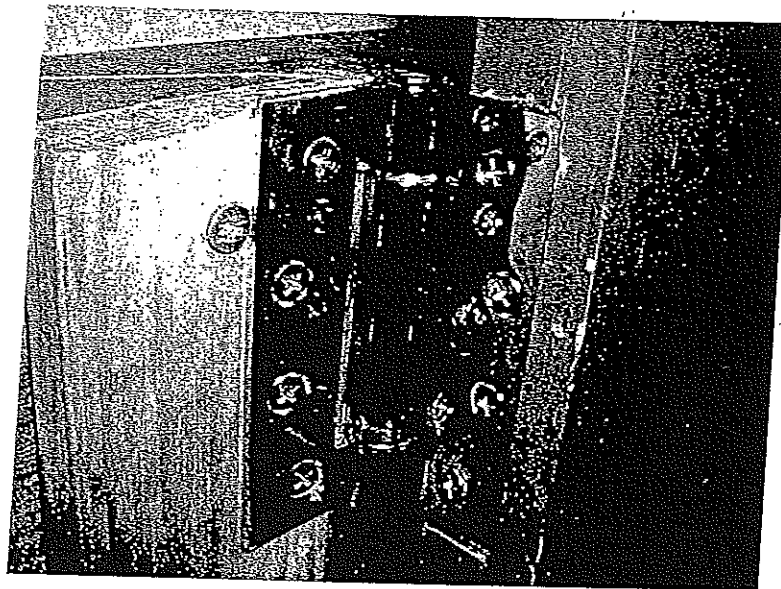


Plate 1: Self Closing Adjustable Hinges (Ref SCH)

