



Test Certificate

This certificate confirms that the

TRAY F1

Manufactured/Supplied by

Gratnells Limited

has been tested at FIRA International Limited and successfully satisfied the applicable test requirements from:

BS 5873-4:1998 Test Level H

According to the Standard the Tray F1 is therefore considered to be structurally suitable and sufficiently stable for general contract use.

Report reference: TSCAF15491 refers

SIGNATURE

Liam Jones

POSITION

Section Leader - Cabinets

CERTIFICATE DATE

26 March 2007

For and on behalf of FIRA INTERNATIONAL LIMITED

This certificate only relates to the sample(s) supplied and tested at the time. Re-testing at intervals is recommended and should be subject to agreement between the supplier and the purchaser.



TECHNICAL REPORT



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GRATNELLS LIMITED

Howards Way
Harlow
Essex
CM20 2SU

Our Ref: **TSCAF15491**

Date: 26 March 2007

Delivery Date: 20 February 2007

Test Dates: 01 - 23 March 2007

For the attention of Robin Wass

SAMPLE(S) FOR TEST:

One, Tray F1

TEST REQUIREMENTS:

BS 5873-4:1998

RESULT:

PASS

FIRA is a UKAS TESTING Laboratory No. 0174

Tests marked "Not UKAS Accredited" in this Report are not included in the UKAS Accreditation Schedule for our laboratory.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

This Report relates to the sample(s) submitted for test and no others. Additions, deletions or alterations are not permitted.

Test reports are given to the client in confidence, and may only be reproduced in whole or in part with written permission from FIRA. Note that the words "**tested by FIRA**" may be used in subsequent publicity for the product; "approved" must **not** be used.

Tests are carried out on the understanding that neither the Association nor its officers can accept any legal responsibility for information or advice given or opinions expressed whether in response to specific enquiries or otherwise.

This Report is given subject to the Terms of Business of FIRA International which are available from the Secretary at the address shown.



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FIRA International Limited

A member of the TTL Chiltern Group
of companies

Registered Office:
Chiltern House, Stocking Lane,
Hughenden Valley, High Wycombe,
Buckinghamshire HP14 4ND, UK.

Registered No 3181481 England

TECHNICAL REPORT

DESCRIPTION

Item: One, Tray F1

Supplier: Gratnells Limited

See Plates: One

Overall Dimensions: 350mm wide x 350 mm high x 430 mm

Item	Description
Material/Thickness	2.5 mm thick moulded plastic frame
Number/ Description of Drawers	One, Tray
Runner Manufacture	N/A
Runner Type	Plastic slide rail
Runner Extension	430 mm
Drawer Materials	2 mm thick moulded plastic

All dimensions are approximate.



TECHNICAL REPORT

BS 5873: (1998) EDUCATIONAL FURNITURE – PART 4. SPECIFICATION FOR STRENGTH AND STABILITY OF STORAGE FURNITURE FOR EDUCATIONAL INSTITUTIONS

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

Item: One, Tray F1

Test Level: H

Initial Inspection: No apparent faults.

Conditioning: N/R

CLAUSE	TEST	RESULT
<u>5.1</u>	<u>Shelves, Horizontal Surfaces and Clothes Hanging Rails</u>	N/A
5.1.1	Strength of shelf supports	
5.1.2	Deflection of shelves	
5.1.3	Strength of top and bottom surfaces	
5.1.4	Strength of clothes hanging rail supports	
5.1.5	Deflection of clothes hanging rails	
<u>5.2</u>	<u>Pivoted Doors</u>	N/A
5.2.1	Strength of pivoted doors	
5.2.2	Wear and fatigue of pivoted doors	
5.2.3	Slamming open of pivoted doors	
5.2.3	Slamming shut of pivoted doors	
<u>5.3</u>	<u>Sliding Doors</u>	N/A
5.3.1	Wear and fatigue of sliding doors	
5.3.2	Slamming open of sliding doors	
5.3.2	Slamming shut of sliding doors	
<u>5.4</u>	<u>Flaps</u>	N/A
5.4.1	Strength of flaps	
5.4.2	Wear and fatigue of flaps	



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Item: One, Tray F1

Test Level: H

Initial Inspection: No apparent faults.

Conditioning: N/R

CLAUSE	TEST	RESULT
<u>5.5</u>	<u>Roll Fronts</u>	N/A
5.5.1	Slamming shut of roll fronts	
5.5.2	Wear and fatigue of roll fronts	
<u>5.6</u>	<u>Drawers</u>	N/A
5.6.1	Strength of runners	
5.6.2	Slamming open of drawers	
5.6.2	Slamming shut of drawers	
5.6.3	Displacement of bottom surface of drawers	
5.6.4	Wear and fatigue of drawers and runners	
<u>5.7</u>	<u>5.7 Trays</u>	
5.7.1	Sustained load	PASS
5.7.2	Vertical downward static load	PASS
5.7.3	Wear and fatigue of trays and runners	PASS
5.7.4	Tray drop	PASS
<u>5.8</u>	<u>Carcase and Underframe</u>	N/A
5.8.1	Strength of carcase and underframe	
5.8.2	Strength of wall attachment devices	



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Item: One, Tray F1 Test Level: H

Initial Inspection: No apparent faults.

Conditioning: N/R

CLAUSE	TEST	RESULT
<u>5.9</u>	<u>Strength of Trolleys</u>	N/A
5.9.1	Sustained load	
5.9.2	Castor/wheel pin retention	
5.9.3	Hazard fatigue	
5.9.4	Long distance running	
5.9.5	Obstruction impact	
5.9.6	Horizontal fatigue	
<u>5.10</u>	<u>Strength of Coat Hooks</u>	N/A



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Item: One, Tray F1 Test Level: H

<u>6</u>	<u>Stability Tests</u>	
<u>L.1</u>	<u>Overturing of unloaded carcass</u>	N/A
	Stability with drawer open (downwards static)	
	Stability with door open (downwards static)	
<u>L.2</u>	<u>Overturning of loaded article</u>	
	Stability with drawer open (downwards static)	N/A
	Stability with door open (downwards static)	N/A
	Drawer slamming (open if stops fitted)	N/A
	Drawer slamming (close)	N/A
	Flaps (downward static)	N/A
	Horizontal stability (rearwards static)	N/A
	Horizontal stability (forwards static)	N/A
	Pull on handles (horizontal static)	N/A
	Impact test (soft body impactor, 40 kg)	N/A
<u>7</u>	<u>GLASS</u>	N/A
	Any glass shall conform to the requirements of Class B of BS 6206:1981, including:	
	Permanent glass marking	
	British Standard number:	
	Glass Classification:	
	Glass type (Toughened, Annealed etc):	
	Identifying mark of manufacturer:	
<u>8</u>	<u>PRODUCT MARKING</u>	N/S**
a)	Name, trademark or other identification of the manufacturer	
b)	Number & date of this standard, i.e. BS 5873-4:1998	
c)	Test Level that the article has been tested against, G (general) or H (heavy)	

** Not Supplied – See Comments



TECHNICAL REPORT

COMMENTS

** Label not supplied – Although a label was not supplied with the product, it is not considered to adversely affect the safety of the product. The requirement to mark a product is only the recognised way of claiming compliance with a standard, and does not, in itself, represent a proof of compliance.

CONCLUSION

The, Tray F1 as previously described, successfully satisfied the applicable test requirements from BS 5873-4:1998.

Tested by: L Jones, J D Moore & A Hull

Reported by C L Rance

Approved by: L Jones
Section Leader - Cabinets



TECHNICAL REPORT



Plate 1: Tray F1 (Closed)



Plate 2: Tray F1 (Open)