

Test Certificate



This certificate confirms that the

PLASTIC TRAYS -

3" Yellow Tray F1

6" Yellow Tray F2

9" Yellow Tray F25

12" Blue Tray F3

LF1 Lid

Supplied by

GRATNELLS LTD

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

BS 5873 – 4: 1998 Test Level H

Report reference: TSCAF33083 refers

SIGNATURE

Mark Goodchild

POSITION

Technical Specialist - Cabinets

CERTIFICATE DATE

26 April 2010

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



Expertise • Independence • Integrity

FIRA International Limited
Maxwell Road, Stevenage
Hertfordshire SG1 2EW
T +44 (0)1438 777 700
F +44 (0)1438 777 800
E info@fira.co.uk

A member of the BM TRADA Group of companies
Registered Office: Chiltern House, Stocking Lane
Hughenden Valley, High Wycombe
Buckinghamshire HP14 4ND UK
Registered No. 3181481 England

GRATNELLS LIMITED

Howards Way
Harlow
Essex
CM20 2SU

Our Ref: **TSCAF33083**

Date: 28 April 2010

Test Date 9 - 26 April 2010

For the attention of Mr Robin Wass

SAMPLE(S) FOR TEST :

One, Plastic Trays

TEST REQUIREMENTS :

BS 5873-4: 1998 Test Level H

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.



0174

TSCAF33083
Page 1 of 9

TECHNICAL REPORT

DESCRIPTION

Item: Plastic Trays

Supplied by: Gratnells Limited

Photos: One - Four

Overall Dimensions: 343 mm W x 660 mm H x 430 mm D

Item	Description
Material / Thickness:	Frame - 25mm ² Metal Box Section and 12mm x 25mm Metal box section 1.5mm Thick Metal Runners
Number/Description of Drawers	Three x Trays
Runner Extension	280mm (with 1/3 of the tray still within the unit)
Drawer Materials	3mm Thick Plastic (25% Talc Filled Co-Polymer)
Other Information	No Open-Stops
Tray Codes	3" Yellow Tray F1 6" Yellow Tray F2 9" Yellow Tray F25 12" Blue Tray F3

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. Where applicable details of the loads applied and their positions of application are retained at FIRA and are available on request.

Item: Plastic Trays

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>	
5.1.1	Strength of shelf supports	N/A
5.1.2	Deflection of shelves	N/A
5.1.3	Strength of top and bottom surfaces	PASS
5.1.4	Strength of clothes hanging rail supports	N/A
5.1.5	Deflection of clothes hanging rails	N/A
<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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Test Level: H

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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 Under frame</u>	
5.8.1	Strength of carcass and under frame	PASS
5.8.2	Strength of wall attachment devices	N/A



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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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<u>6</u>	<u>Stability Tests</u>	
<u>L.1</u>	<u>Overturning of unloaded carcass</u>	
	Stability with drawer open (downwards static)	PASS
	Stability with door open (downwards static)	N/A
<u>L.2</u>	<u>Overturning of loaded article</u>	
	Stability with drawer open (downwards static)	PASS
	Stability with door open (downwards static)	N/A
	Drawer slamming (open if stops fitted)	N/A
	Drawer slamming (close)	PASS
	Flaps (downward static)	N/A
	Horizontal stability (rearwards static)	PASS
	Horizontal stability (forwards static)	PASS
	Pull on handles (horizontal static)	N/A
	Impact test (soft body impactor, 40 kg)	PASS
<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>	
a)	Name, trademark or other identification of the manufacturer	N/A
b)	Number & date of this standard, i.e. BS 5873-4:1998	N/A
c)	Test Level that the article has been tested against, G (general) or H (heavy)	N/A



TECHNICAL REPORT

CONCLUSION

The Plastic Trays, as previously described, satisfied the applicable strength and durability test requirements from BS 5873-4: 1998 Test Level H.

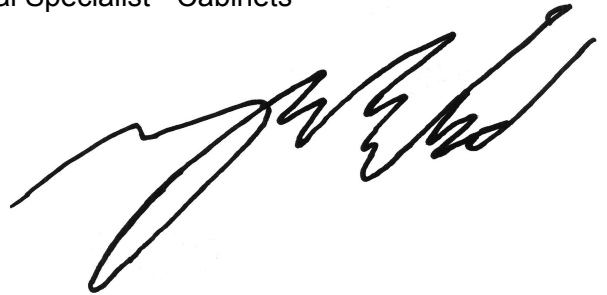
Tested and Reported by:

B Mellor

Approved by:

M Goodchild

Technical Specialist - Cabinets



TECHNICAL REPORT



Plate 1: Front of Plastic Trays



Plate 2: Plastic Trays – Tray Open

TECHNICAL REPORT



Plate 3: Plastic Trays – Runner



Plate 4: Plastic Trays