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**GRATNELLS LTD**  
8 Howard Way  
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CM20 2SU

Our Ref: CA-8952-S1  
Date: 15 February 2021  
Delivery Date: 12 February 2021  
Test Dates: 12 February 2021

For the attention of Anthony Byrne

## SAMPLE(S) SUBMITTED FOR TEST AND IDENTIFIED BY CUSTOMER AS:

One, 75mm High Translucent Tray

## TEST(S) AS REQUESTED BY CUSTOMER:

BS EN 16121: 2013 +A1: 2017 Test Level 2

## RESULT:

Pass\*

\*Selected Test Only.

Technical report references marked \* indicate this report is supplementary to the previous report with the same reference

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# TECHNICAL REPORT

## DESCRIPTION

Item: 75mm High Translucent Tray  
Supplied by: **GRATNELLS LTD**  
Number of Photos: One to Two  
Overall Dimensions: 75mm High x 312mm Wide x 373mm Deep

ITEM	DESCRIPTION
Material/Thickness	2.78mm Thick Folded Plastic, 1 piece moulded transparent / white
Number/Description of Drawers	1 x Plastic tray, free-standing
Drawer Materials	2.78mm Thick folded plastic, 1 piece moulded

All dimensions are approximate.

## PRECONDITIONING AND MOISTURE CONTENT

FIRA International cannot validate date of manufacture and therefore it is assumed that at least 4 weeks has elapsed between date of manufacture and delivery to FIRA.

Unless otherwise stated on the first page of this report the sample was stored in indoor ambient conditions for at least the minimum duration as required by this standard prior to test.

Wherever possible timber moisture content is verified prior to test. Where this is not possible the moisture content is assumed to be in the range 8 – 12 %.



# TECHNICAL REPORT

## **BS EN 16121:2013 +A1: 2017 Non-Domestic Storage Furniture – Requirements for Safety, Strength, Durability and Stability**

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 International and are available on request. Structural testing machines are set to operate at the tolerances stated in the standard. Uncertainty of Measurement calculations have not been applied. FIRA International Uncertainty of Measurement values are available on request.

The tests were carried out in accordance with the standard, and the clause references of BS EN 16122: 2013 +A1: 2017.

Item: 75mm High Translucent Tray

Initial Inspection: No apparent faults

Clause	Test	Result
5	<b>General safety requirements</b> (Clause Ref: BS EN 16121: 2013)	
5.2	No burrs or sharp edges.	Not Tested
5.2	No open-ended tubes.	Not Tested
5.2	Movable parts – safety distances.	N/A
5.2	Unintentional loosening of load bearing parts.	N/A
5.2	Lubricated components.	N/A
5.2	Roll front (vertical).	N/A
5.2	No pinching of feet.	N/A
5.2	Drawer open stops.	N/A
5.2	External vertical glass $\leq$ 900 mm.	N/A
5.3.1	Shear and squeeze (setting up and folding).	N/A
5.3.2	Shear and squeeze (powered mechanisms).	N/A
5.3.3	Shear and squeeze (during use).	Not Tested
5.4	Hinged horizontal lids.	N/A
5.5	Vertical glass component	N/A

Not Tested: Due to customer request.

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.



# TECHNICAL REPORT

## **BS EN 16121:2013 +A1: 2017 Non-Domestic Storage Furniture – Requirements for Safety, Strength, Durability and Stability**

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Item: 75mm High Translucent Tray

Initial Inspection: No apparent faults

Clause	Test	Result
5.6	<b>Stability</b> (Clause Ref: EN 16122: 2012)	
11.2.1	Doors, extension elements and flaps closed, unit unloaded ( $\leq 1000\text{mm}$ ).	N/A
11.2.2	Doors, extension elements and flaps closed, unit unloaded ( $> 1000\text{mm}$ ).	N/A
11.4.1	Doors, extension elements and flaps opened.	N/A
11.4.2	All storage areas unloaded with overturning load.	N/A
11.4.3	All storage areas loaded with overturning load.	N/A
11.5	Doors, extension elements and flaps locked (loaded).	N/A
11.6	Dynamic stability for units with castors.	N/A

Clause	Test	Result
7	<b>Information for use</b> (Clause Ref: BS EN 16121: 2013)	
7a	Information regarding the intended use, reference to test severity where appropriate;	Not Supplied
7b	Assembly instructions, where applicable;	N/A
7c	Instructions for care and maintenance of the storage furniture, where applicable.	Not Supplied

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# TECHNICAL REPORT

## **BS EN 16121:2013 +A1: 2017 Non-Domestic Storage Furniture – Requirements for Safety, Strength, Durability and Stability**

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The tests were carried out in accordance with the standard, and the clause references of BS EN 16122: 2013 +A1: 2017.

Item: 75mm High Translucent Tray

Initial Inspection: No apparent faults

Clause	Test	Result
5.7	<b>Structural safety</b> (Clause Ref: BS EN 16122: 2012)	
6.2.2	Static load test for tops and bottoms.	N/A
6.1.2	Shelf retention (horizontal outward).	N/A
6.1.3	Shelf retention (vertical downward).	N/A
6.1.5	Strength of shelf supports.	N/A
7.1.2	Vertical load of pivoted doors.	N/A
7.1.3	Horizontal load of pivoted doors.	N/A
7.3.1	Strength of bottom hinged flaps.	N/A
7.5.2	Strength of extension elements.	N/A
7.5.4	Slam open and shut of extension elements.	N/A
7.5.6	Interlock test.	N/A
6.4.1	Strength of carcass and underframe.	N/A
6.4.3	Test for unit with castors or wheels.	N/A
10.1.3	Overload.	N/A
10.1.4	Dislodgement test.	N/A
10.2	Floor standing units.	N/A

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# TECHNICAL REPORT

## **BS EN 16121:2013 +A1: 2017 Non-Domestic Storage Furniture – Requirements for Safety, Strength, Durability and Stability**

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The tests were carried out in accordance with the standard, and the clause references of BS EN 16122: 2013 +A1: 2017.

Item: 75mm High Translucent Tray

Initial Inspection: No apparent faults

Clause	Test	Result
6.1	<b>Strength and durability</b> (Clause Ref: BS EN 16122: 2012)	
6.3.1	Strength of clothes rail supports.	N/A
9.1	Strength of coat hooks.	N/A
7.1.5	Durability of pivoted doors.	N/A
7.1.4	Slam shut of pivoted doors.	N/A
7.2.2	Slam shut/open of sliding doors and horizontal roll fronts.	N/A
7.2.3	Durability of sliding doors.	N/A
7.2.3	Durability of horizontal roll fronts.	N/A
7.3.2	Durability of flaps.	N/A
7.4.2	Durability of vertical roll fronts.	N/A
7.5.3	Durability of extension elements.	N/A
7.5.3	Durability of trays.	N/A
7.5.4	Slam open and shut of extension elements.	N/A
7.5.5	Displacement of extension element bottoms.	Not Tested
7.6.2	Strength of locking and latching mechanisms (extension elements).	N/A
7.6.3	Strength of locking and latching mechanisms (doors, flaps and roll fronts).	N/A
6.1.4	Deflection of shelves.	N/A
6.3.2	Dislodgement of clothes rails.	N/A
8.3	Drop test for trays.	Pass
8.2	Sustained load test for trays.	Not Tested

Not Tested: Due to customer request.

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# TECHNICAL REPORT

## **BS EN 16121:2013 +A1: 2017 Non-Domestic Storage Furniture – Requirements for Safety, Strength, Durability and Stability**

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 International and are available on request. Structural testing machines are set to operate at the tolerances stated in the standard. Uncertainty of Measurement calculations have not been applied. FIRA International Uncertainty of Measurement values are available on request.

Item: 75mm High Translucent Tray

Initial Inspection: No apparent faults

Clause	Test	Result
5.7	<b>ANNEX A – Modifications for Schools, Kindergartens and Similar Applications</b>	
A.2.2	Sheer and squeeze points.	Not Tested
A.2.3	Safety principles.	Not Tested
A.2.4	General safety.	Not Tested
A.2.5	Sheer and squeeze points under the influence of powered mechanisms.	N/A
A.2.6	Sheer and squeeze points during use.	Not Tested
A.2.7	Glass.	N/A
A.2.8	Stability.	N/A
A.2.9	Strength and durability – drop test for trays.	Pass
A.3	Finger entrapment.	Not Tested

Not Tested: Due to customer request.

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# TECHNICAL REPORT

## CONCLUSION

The 75mm High Translucent Tray, as previously described, successfully satisfied the selected Drop Test for Trays test requirements of BS EN 16121: 2013 +A1: 2017 Test Level 2.

Tested by: J Viccars

Reported by: G Wright

Approved by: L Haines

Section Head - Structural Testing



# TECHNICAL REPORT



\*\*\*\*\*End of Report\*\*\*\*\*