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**GRATNELLS LIMITED**  
Howards Way  
Harlow  
Essex  
CM20 2SU

Our Ref: **TSCAF80673**  
Date: 12/07/2018  
Delivery Date: 13/06/2018  
Test Dates: 14/06/18 - 03/07/18

For the attention of Anthony Byrne

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

One, Callero Tray Unit

## TEST(S) AS REQUESTED:

BS EN 16121:2013 (Test Level 1)  
\*Excluding information for use

## RESULT:

Pass\*

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: Callero Tray Unit  
Supplied by: **GRATNELLS LIMITED**  
Number of Photos: 4  
Overall Dimensions: 1020mm High x 1060mm Wide x 440mm Deep

ITEM	DESCRIPTION
Material/Thickness	22mm metal / 4mm sheet metal
Number/Description of Shelves	N/A
Number/Type of Shelf Supports	N/A
Number/Description of Doors	N/A
Hinge Manufacturer	N/A
Hinge Type/Opening Angle	N/A
Door Dimension/Material	N/A
Number/Description of Drawers	20 trays
Runner Manufacturer	Gratnells
Runner Type	Unknown
Runner Extension	N/A
Drawer Materials	15mm Thick front/carcase (plastic)
Wall Hanging Information	N/A
Wall Fixing Plate Information	N/A

All dimensions are approximate.

## PRECONDITIONING AND MOISTURE CONTENT

FIRA 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 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 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 Uncertainty of Measurement values are available on request.

The tests were carried out in accordance with the standard, and the clause references of ISO 7170: 2005.

Item: Callero Tray Unit

Initial Inspection: No apparent faults

Clause	Test	Result
5	<b>General safety requirements</b>	
5.2	No burrs or sharp edges.	Pass
5.2	No open-ended tubes.	Pass
5.2	Movable parts – safety distances.	Pass
5.2	Unintentional loosening of load bearing parts.	Pass
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).	Pass
5.4	Hinged horizontal lids.	N/A
5.5	Vertical glass component	N/A

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 Non-Domestic Storage Furniture – Requirements for Safety, Strength, Durability and Stability**

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Item: Callero Tray Unit

Initial Inspection: No apparent faults

Clause	Test	Result
5.6	<b>Stability</b>	
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.	Pass

Clause	Test	Result
7	<b>Information for use</b>	
7a	Information regarding the intended use, reference to test severity where appropriate;	Not Supplied
7b	Assembly instructions, where applicable;	Not Supplied
7c	Instructions for care and maintenance of the storage furniture, where applicable.	Not Supplied

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# TECHNICAL REPORT

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

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Item: Callero Tray Unit

Initial Inspection: No apparent faults

Clause	Test	Result
5.7	<b>Structural safety</b>	
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 Carcase and Underframe.	Pass
6.4.3	Test for unit with castors or wheels.	Not Tested
10.1.3	Overload.	N/A
10.1.4	Dislodgement test.	N/A
10.2	Floor standing units.	N/A
5.7.2	Structural safety requirements.	Pass

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# TECHNICAL REPORT

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

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Item: Callero Tray Unit

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.	Pass
7.5.4	Slam open and shut of Extension Elements.	N/A
7.5.5	Displacement of Extension Element Bottoms.	N/A
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.	N/A
8.2	Sustained Load Test for Trays.	Pass

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## **BS EN 16121:2013 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 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 Uncertainty of Measurement values are available on request.

The tests were carried out in accordance with the standard, and the clause references of ISO 7170: 2005.

Item: Callero Tray Unit

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.	Pass
A.2.3	Safety principles.	Pass
A.2.4	General safety.	Pass
A.2.5	Sheer and squeeze points under the influence of powered mechanisms.	N/A
A.2.6	Sheer and squeeze points during use.	N/A
A.2.7	Glass.	N/A
A.2.8	Stability.	Pass
A.2.9	Strength and durability – drop test for trays.	N/A
A.3	Finger entrapment	Pass

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# TECHNICAL REPORT

## CONCLUSION

The Callero Tray Unit, as previously described, successfully satisfied the applicable test requirements of BS EN 16121:2013. (Test Level 1) – excluding information for use.

Tested by: B Mayor & D Lawrence  
Reported by: D Lawrence  
Approved by: H James  
Operations Manager – Testing Services



# TECHNICAL REPORT

Photo 1: Callero Tray Unit



Photo 2: Callero Tray Unit



Photo 3: Callero Tray Unit



Photo 4: Callero Tray Unit



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