

Lab Protocol	
Number	LP-G02-01.06.00
Description	ASTM F2057-23 Standard safety for Clothing Unit Test (Pure Protocols)
Reference	ASTM F2057 - 2023

Report Number	TR-E23-01443
Report Date	November 1, 2023
TAF Number	TA-E2310-0878
Date In	October 18, 2023
Lab	Surabaya
Test Technician	Bayu, Dicky, Ari
Report Author	Thoriq


Customer Data	
Customer	OUTLOOK INTERNATIONAL LTD
Contact	NUR AMINAH
Email	Nur.Aminah@outlookintl.com
Retailer/Brand	BUTLER SPECIALTY

RESULT			
PASS	X	FAIL	
INFO		COND	

Vendor Data			
Name	PT. MITRA BINAMANDIRI MAKMUR	Contact	VIVI
Email	mitra@mitrabina.com	Tel:	+62 812-3007-3022

Product Data			
Item Description	6 Drawer Chest		
SKU Number	5766188	Affiliated SKU's	/
PO Number	/	Country of Origin	INDONESIA

Reason for Testing			Environmental Conditions		
Sampling Stage	<input type="checkbox"/> New Development	<input checked="" type="checkbox"/> Pre-production	<input type="checkbox"/> Production	Temperature (C°/F°)	33/91
Test History	<input checked="" type="checkbox"/> First time test	<input type="checkbox"/> Retest, Original TR No.:		RH (%)	47

Test Specimen Picture	Test Result Summary
	<p>The item is rated as PASS after test.</p>

Physical Characteristics			
Weight (KG/LB)	133 lbs	Material Type	

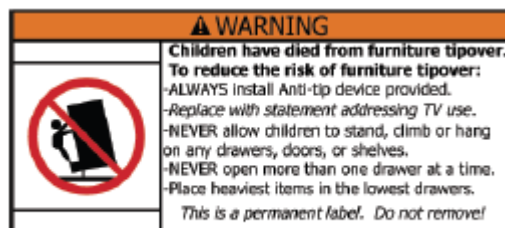
Dimensional Overview			
Primary Dimensions		Storage Spaces Dimension	
Whole Product (LxWxH)	62" x 20" x 31 6/16"	Number of Door	/
Top Surface (LxW)	62" x 20"	Other Storage Area (DxWxH)	/
Leg Height	4 8/16"	Other Storage Area (DxWxH)	/
Leg Thickness	1 12/16"	Number of Shelves (Fixed)	/
		Number of Shelves (Movable)	/
		Fixed Shelf Dimensions	/
		Fixed Shelf Dimensions	/
		Movable Shelves Dimensions	/
		Movable Shelves Dimensions	/

Determine the load weigh in the drawers (Extendible Element)					
Extendible element height (HE) is 1/8 in. (3 mm) less than the smallest measurement from the top of bottom panel to the lowest point on the next obstruction above the extendible element at any point of the travel following the opening instructions in 8.1.3.					
Drawer Design 1 Top L/R (2 Pcs)		Drawer Design 2 Middle and Bottom (4 Pcs)		Drawer Design 3	
Drawer bottom depth (in)	15 4/16"	Drawer bottom depth (in)	15 4/16"	Drawer bottom depth (in)	/
Drawer bottom width (in)	27 2/16"	Drawer bottom width (in)	27 2/16"	Drawer bottom width (in)	/
Drawer Height (in)	5 10/16"	Drawer Height (in)	5 6/16"	Drawer Height (in)	/
Drawer functional volume (ft3)	1.32	Drawer functional volume (ft3)	1.26	Drawer functional volume (ft3)	/
Test weight (lb)	11.2	Test weight (lb)	10.7	Test weight (lb)	/
Drawer Design 4 (centre middle and bottom 2 pcs)		Drawer Design 5		Drawer Design 6	
Drawer bottom depth (in)	/	Drawer bottom depth (in)	/	Drawer bottom depth (in)	/
Drawer bottom width (in)	/	Drawer bottom width (in)	/	Drawer bottom width (in)	/
Drawer Height (in)	/	Drawer Height (in)	/	Drawer Height (in)	/
Drawer functional volume (ft3)	/	Drawer functional volume (ft3)	/	Drawer functional volume (ft3)	/
Test weight (lb)	/	Test weight (lb)	/	Test weight (lb)	/

Volume Calculation Notes
1. Any volume with a height (H) less than 3 in. (76 mm) shall be excluded from all volume calculations.
2. Any continuous volume less than 0.06 ft3 (1.7 dm3) shall be excluded from all volume calculations unless the volume is created by a removable feature, for example, a removable jewellery tray, removable shelf, or other obstruction. In the case of a removable feature, remove such feature and re-evaluate.

Labeling Compliance			
Evaluation	Citation/Method	Criteria	Result
	Permanency of Labels and Warnings Testing LP-S02-07.43.00	ASTM F2057- 9.3 – 2023 1. A paper label shall be considered permanent if, during an attempt to remove it without the aid of tools or solvents, it cannot be removed, it tears into pieces upon removal, or such action damages the surface to which it is attached. 2. A non-paper label shall be considered permanent if, during an attempt to remove it without the aid of tools or solvents, it cannot be removed, or such action damages the surface to which it is attached.	M

		<p>3. Adhesion Test for Warnings Applied Directly onto the Surface of the Product:</p> <p>3.1 Apply the tape test defined in Test Method B – Cross-Cut Tape Test of Test Methods D3359 eliminating parallel cuts.</p> <p>3.2 Perform this test once in each different location where warnings are applied.</p> <p>3.3 The warning statements shall be considered permanent if the printing in the area tested is still legible and attached after being subjected to this test.</p>	
	<p>Tip Over Warning Label LP-S02-07.13.00</p>	<p style="text-align: center;">ASTM F2057- 10 – 23</p> <p>Each clothing storage unit shall be permanently marked in at least one place with the warnings from this section. The warnings shall be in a conspicuous location when in use; the back of the unit intended to be placed against the wall is not considered conspicuous when in use.</p> <div style="text-align: center;"> <p>Black/White Version</p> </div>	<p>M</p>
<p style="text-align: center;">Warning Label</p>		<p style="text-align: center;">Figure 1. Example warning for Clothing Storage units that are Not designed and intended by the manufacturer to be used with TV</p>	



Black/White Version

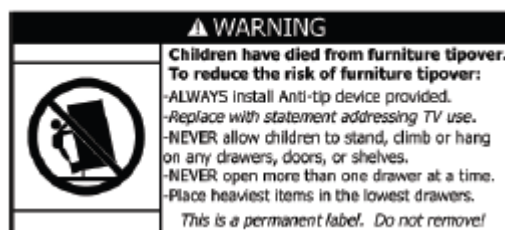


Figure 2. Example warning For Clothing Storage units that are designed and intended by the manufacturer to be used with a TV.



Figure 3. Example warning for unit with Interlocks Not Designed and Intended by the Manufacturer to be Used with a TV.

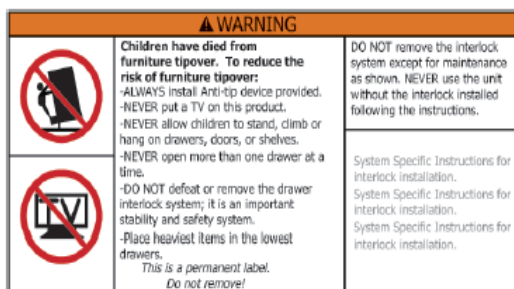










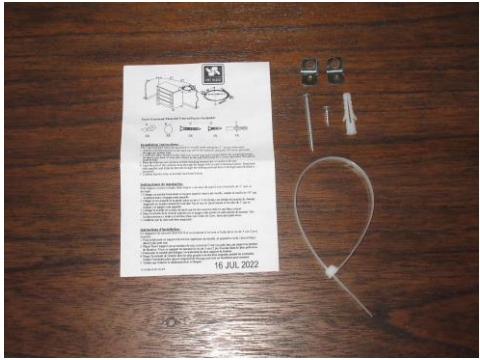
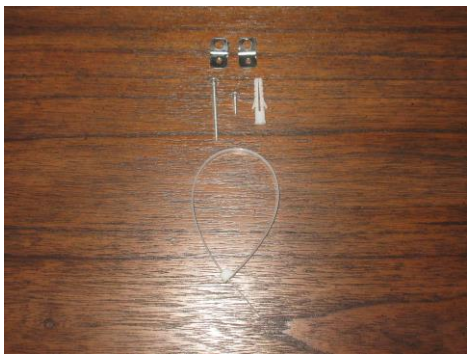


Figure 4. Example Warning Billboarded for Use with Interlocks Requiring in Unit Warnings

Legend	M (Meet)	NM (Not Meet)	N/A (Not Applicable)	N/R (Not Requested)	N/C (Not Checked)
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Physical Tests		
Test Procedure	Criteria/Method	Results
Evaluate Interlock System LP-S02-01.76.00	<p>ASTM F2057 – 9.1 – 23</p> <ol style="list-style-type: none"> Open any doors prohibiting access to the interlocked extendible element. Open an extendible element or the number of elements necessary to engage the interlock. Gradually apply, over a period of at least 5 s, a 30-lbf (133 N) horizontal pull force on each interlocked extendible element at the center of the pull area(s), one element at a time, and hold the force for at least 10 s. 	N/A

	<i>(Picture item tested)</i>	<i>(Picture angled view)</i>	
Failure Details			
Stability Test LP-S02-01.77.00	ASTM F2057 – 9.2 – 23 1. Simulated Clothing Load: 1.1 Position the empty unit on test surface described in 8.2.1. For units with levellers, adjust the unit per 8.1.2. 1.2 If 50 % or more of the storage volume is extended, determine the weight for loading the extendable elements and/or space behind the doors based on the volume calculated in $Vol (ft^3) = (W (in.) \times D (in.) \times H (in.) / 1728) \times 8.5lb$. Load per 8.3.3. If less than 50 % of the storage volume is extended, the unit shall remain empty. 1.3 Open all doors and extend all available extendable elements in accordance with 8.1.3. Elements shall remain open for 30 s.		M
			
			
Failure Details			
	2 Simulated Horizontal Dynamic Force: 2.1 Force Application on Extendible Element —Where the extendible element has been determined to have the highest hand-hold height, not to exceed 56 in. (1422 mm). <ul style="list-style-type: none"> Apply a 10 lbf (44 N) horizontal force, parallel to the direction of outward motion, at the highest handhold, not to exceed 56 in. (1422 mm) on the extendible element most likely to cause tip over. The force shall be applied within 1/4 in. (6 mm) of the top edge of a drawer or to the centre of the pull area of the extendible element, whichever is higher but less than 56 in. (1422 mm) over a period of at least 5 s and held for 10 s. 		M
		 <p style="text-align: center;"><i>Result: 10.4 lbf</i></p>	
	Failure Details		

	<p>2.2 Force Application on Door with Handle/pull— Where the door handle/pull has been determined to be the highest reach point not to exceed 56 in. (1422 mm).</p> <ul style="list-style-type: none"> Apply a 10 lbf (44 N) horizontal force, parallel to the direction of initial outward motion, at a height not exceeding 56 in. (1422 mm) to the handle or pull. The force shall be applied over a period of at least 5 s and held for 10 s. The door shall be in a position most likely to cause the unit to tip over. If the door handle or pull exceeds the max reach height, follow 2.1(3). 	N/A
	<div style="display: flex; justify-content: space-around;"> (Picture item being loaded) (Angled View) </div>	
	<p>Failure Details</p>	
	<p>3 Simulating a Reaction on Carpet with Child Weight:</p> <p>3.1 Position the empty unit on test surface described in 8.2.1. For units with levellers, adjust the unit per 8.1.2.</p> <p>3.2 Place the test block(s) under the unit's most rear floor support(s), such as a leg, foot, or upright.</p> <p>3.3 Test block(s) shall be positioned so the back edge of the test block(s) are flush with the back edge of the rear floor supports. If the rear floor support is a glide tack, leveller, or foot smaller than 1 in., center the block under it.</p> <p>3.4 Open all doors and extend all available extendible elements in accordance with 8.1.3.</p> <p>3.5 Gradually, over a period of at least 5 s, apply the test apparatus without impact over the top of the door or extendible element most likely to cause tip over. Allow the test apparatus to rest without additional support for 30 s. If it is not apparent which door, extendible element, or for clothing storage units with interlock(s), the combination of open and closed extendible elements is most likely to cause tip over, perform multiple tests.</p> <p>3.6 If the extendible element most likely to cause tip over is not the uppermost extendible element, any extendible element obstructing the test weight from being positioned properly shall be closed and reopened to the extent possible. For odd-shaped drawer, apply the test apparatus to the front edge that protrudes the farthest. For doors, apply the test apparatus to each door, one at a time, so that the outer edge of the test weight is flush with the outermost upper corner of the door.</p> <p>Acceptance Level: During the test, the unit shall not tip over or be supported by any component unless that component was specifically designed for that purpose.</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="text-align: center; margin-top: 20px;">  </div>	M

		Failure Details			
Counterweight Load LP-S00-01.57.00	<input type="checkbox"/> Counterweight Load given to pass:				____ lbs.
Tip Over Restraint Availability LP-S02-01.36.00	ASTM F2057 - 4.4 – 23				M
	<p>Acceptance Level: An anti-tip device shall be included with each item of furniture covered under the scope of this standard for attachment by the consumer</p> <div style="display: flex; justify-content: space-around;">   </div>				
Tip Over Restraint Test LP-S02-01.37.00	ASTM F2057 – 4.5 - 23				M
	<p>The anti-tip device provided shall meet the requirement of specification ASTM F3096</p> <p>Acceptance Level:</p> <ul style="list-style-type: none"> Shall withstand a pull force of 60lb. 				
			 <p style="text-align: center;">Result: 63.2lbf</p>		
		Failure Details			
Legend	M (Meet)	NM (Not Meet)	N/A (Not Applicable)	N/R (Not Requested)	CNT (Could Not Test)

LAB CONTACT INFORMATION

ADDRESS

PT. Outlook Technical Services Indonesia
 Jl. Nangka Kawasan Pergudangan Tanrise Southgate
 Block A-16 Gedangan, Sidoarjo, East Java,
 Indonesia 61254
 Tel: 62-31-8917907
 Fax: 62-31-8917937

GENERAL INQUIRIES AND TECHNICAL INFORMATION

Contact : Sjahrial Surya
 Email : surya.sjahrial@otsglobal.com