



TEST REPORT: 4791111930.1

APPLICANT

Supplier Tvilum A/S 2018
Name:
Address: Egon Kristiansens Alle 2
 Faarvang, Midtjylland 8882
 Denmark



PRODUCT:

Article Name: PEPE double dresser US
 version art. 70073U

DATE

Sample in:	6/12/2023	[dd/mm/yyyy]
Tests start:	6/12/2023	[dd/mm/yyyy]
Tests end:	19/12/2023	[dd/mm/yyyy]
Report issue:	19/12/2023	[dd/mm/yyyy]

OVERALL DIMENSIONS:

Measured:	Depth: 400 mm;	Height: 815 mm
	Width: 1400 mm	Weight: 68.6 kg
Nominal:	Depth: ND;	Height: ND;
	Width: ND;	Weight: ND;
Sample number	6715281	Order Number: 15083808

REFERENCE STANDARD

ASTM F2057 - 23 Standard Safety Specification for Clothing Storage Units

Note: see the legend in the last page of this report

Sample conditioning before testing: The sample has been conditioned for at least for 24h, in controlled ambient conditions

The tests have been performed the following conditions: 20 ± 5 °C

Sample defects before the test: NO VISIBLE DEFECTS

Technician
 Marco Tita

Laboratory Manager
 Matteo Longoni

*Note: any copy, even partial, of this report, and any change or alteration to it are strictly forbidden.
 The test results listed in this report are relevant only for the tested sample. Sampling performed by the customer..*



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	Rating	Note
4 Performance Requirements	P	
4.1 With the unit set up in accordance with 8.1, and without the anti-tip device, test the unit in accordance with 9.2.1, 9.2.2, and 9.2.3.	P	
4.2 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	
4.3 If a failed component prohibits the completion of the test, then the failed component(s) shall be repaired or replaced to the original specifications, or the component replaced and the test repeated with the failed component secured as to not affect the test results but to prevent the component from failing.	NA	
4.4 An anti-tip device shall be included with each item of furniture covered under the scope of this safety specification for attachment by the consumer.	P	
4.5 The anti-tip device provided shall meet the requirement of Specification F3096.	P	
4.6 Interlock Requirements:	NA	
4.6.1 Interlocks shall not require additional consumer action to engage during normal operation of the extendible element, for example, opening and closing the drawer to access the interior volume.	NA	
4.6.1.1 Consumer action to reengage the interlock system after disengaging to allow removal of one or more extendible elements is allowed, for example, to install an anti-tip device or retrieve a lost sock.	NA	
4.6.1.2 An interlocked extendible element removed for such one-time action shall not require removal of components such as back panels and dust bottom to access the interlocking mechanism during reengagement. Reengagement shall not require tools unless those tools are also required for disengagement.	NA	
4.6.1.3 An interlocked extendible element removed for such one-time action shall either:	NA	
(1) Not be fully functional when reinstalled until the interlock is reengaged. (For example, it will not fully close or ride on tracks if interlock is not reengaged—which can be an automatic action when reinstalled in case.); or	NA	
(2) Include a separate warning or warnings as described in 10.2.3.10.	NA	
4.6.2 Interlocks shall not require consumer assembly and/or installation if the unit is shipped assembled, except as allowed in 4.6.1.1.	NA	
4.6.3 Consumer assembly and/or installation of interlock components as part of the normal consumer assembly process is allowed for items shipped/sold unassembled.	NA	
4.6.4 When tested to 9.1, the extendible element shall be considered interlocked to the open extendible element if either:	NA	
4.6.4.1 It remains closed during the test and is functional after tested extendible element is closed; or	NA	
4.6.4.2 Its opening acts to close the extendible element originally open.	NA	

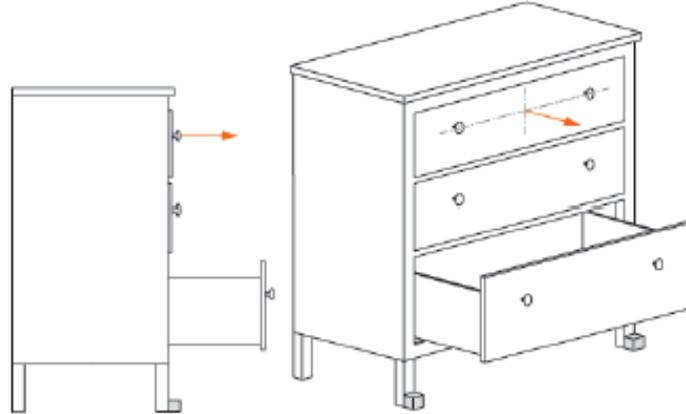
Note:

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Performance requirements ASTM F2057-23

Test to Evaluate Interlock System - ASTM F2057-23 cl. 9.1



The doors have been opened to access the interlocked extendible element

How many extendable elements shall be opened to engage the interlock?

NA

-

Component Open	Components Tested	Required horizontal pull force	Time of application of the load [s]	Applied horizontal pull force [lbf.]	Rating
Extendable Element 1	Extendable Element 2	30 lbf (113N)	10	-	NA
	Extendable Element 3	30 lbf (113N)	10	-	NA
	Extendable Element 4	30 lbf (113N)	10	-	NA
	Extendable Element 5	30 lbf (113N)	10	-	NA
Extendable Element 2	Extendable Element 1	30 lbf (113N)	10	-	NA
	Extendable Element 3	30 lbf (113N)	10	-	NA
	Extendable Element 4	30 lbf (113N)	10	-	NA
	Extendable Element 5	30 lbf (113N)	10	-	NA
Extendable Element 3	Extendable Element 1	30 lbf (113N)	10	-	NA
	Extendable Element 2	30 lbf (113N)	10	-	NA
	Extendable Element 4	30 lbf (113N)	10	-	NA
	Extendable Element 5	30 lbf (113N)	10	-	NA
Extendable Element 4	Extendable Element 1	30 lbf (113N)	10	-	NA
	Extendable Element 2	30 lbf (113N)	10	-	NA
	Extendable Element 3	30 lbf (113N)	10	-	NA
	Extendable Element 5	30 lbf (113N)	10	-	NA
Extendable Element 5	Extendable Element 1	30 lbf (113N)	10	-	NA
	Extendable Element 2	30 lbf (113N)	10	-	NA
	Extendable Element 3	30 lbf (113N)	10	-	NA
	Extendable Element 4	30 lbf (113N)	10	-	NA

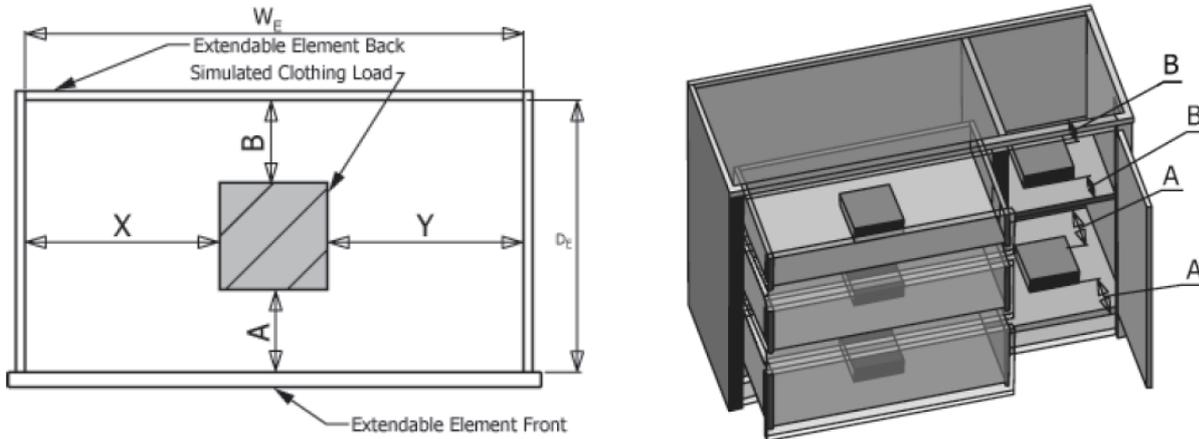
Note: Test not applicable since there isn't the interlock system.

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Stability Test Methods - ASTM F2057-23 cl. 9.2

Simulated Clothing Load - ASTM F2057-23 cl. 9.2.1



Set up feet

Maximum height adjustment of the feet		Adjusted height	
(in)	(mm)	(in)	(mm)
Not adjustable	Not adjustable	Not adjustable	Not adjustable

Components	Volume (ft ³)	Volume [dm ³]	Load (lb)	Load [kg]
Extendable Element 1	1.23	34.96	10.49	4.8
Extendable Element 2	1.23	34.96	10.49	4.8
Extendable Element 3	1.23	34.96	10.49	4.8
Extendable Element 4	1.23	34.96	10.49	4.8
Extendable Element 5	1.23	34.96	10.49	4.8
Extendable Element 6	1.23	34.96	10.49	4.8
Extendable Element 7	1.23	34.96	10.49	4.8
Extendable Element 8	1.23	34.96	10.49	4.8

Note: The has been performed with the sample loaded since more than 50% of the storage volume is extended.

All doors opened 90°	All drawers extended to the outstop or, in the absence of such feature, to 2/3 (66 %) of their operational sliding length	All pullout shelves extended to the outstop or, in the absence of such feature, to 2/3 (66 %) of their operational sliding length	Flaps or drop fronts opened to their horizontal position or as near horizontal as possible	Time of application of the load [s]	Rating
NA	Yes	NA	NA	30	P

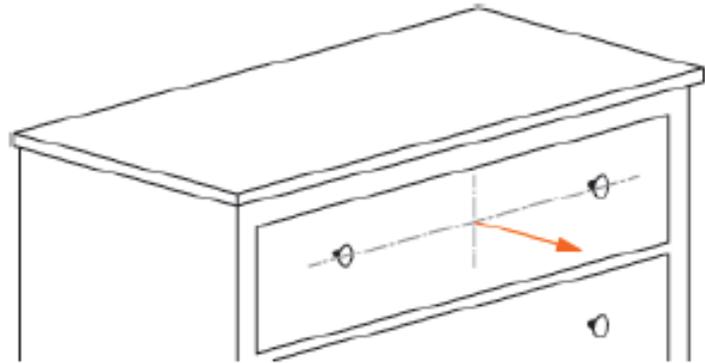
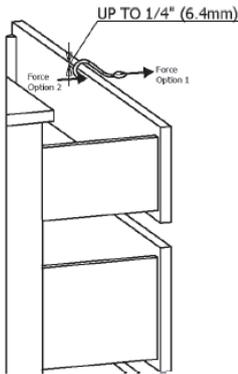
Note: The sample has been placed on a hard, flat test surface and all levelers fully retracted.

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Simulated Horizontal Dynamic Force - ASTM F2057-23 cl. 9.2.2

Force Application on Extendible Element - ASTM F2057-23 cl. 9.2.2.1



All doors opened 90°	All drawers extended to the outstop or, in the absence of such feature, to 2/3 (66 %) of their operational sliding length	All pullout shelves extended to the outstop or, in the absence of such feature, to 2/3 (66 %) of their operational sliding length	Flaps or drop fronts opened to their horizontal position or as near horizontal as possible
NA	Yes	NA	NA

Components	Highest hand hold height		Required horizontal pull force	Time of application of the load [s]	Horizontal pull force applied [lbf.]	Rating
	in.	mm				
Extendable Element 1	31.85	809	10 lbf (44N)	10	10 lbf (44N)	P
Extendable Element 2	31.85	809	10 lbf (44N)	10	10 lbf (44N)	P
Extendable Element 3	23.98	609	10 lbf (44N)	10	10 lbf (44N)	P
Extendable Element 4	23.98	609	10 lbf (44N)	10	10 lbf (44N)	P
Extendable Element 5	16.10	409	10 lbf (44N)	10	10 lbf (44N)	P
Extendable Element 6	16.10	409	10 lbf (44N)	10	10 lbf (44N)	P
Extendable Element 7	8.23	209	10 lbf (44N)	10	10 lbf (44N)	P
Extendable Element 8	8.23	209	10 lbf (44N)	10	10 lbf (44N)	P

Note: The sample has been placed on a hard, flat test surface and all levelers fully retracted. The force has been applied within ¼ in. (6 mm) of the top edge of a drawer.

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Simulating a Reaction on Carpet with Child Weight - ASTM F2057-23 cl. 9.2.3			
 Test Block Placement Test Apparatus on Drawer Front, No Interlocks	 Test Block Placement Test Apparatus on Door	 Test Block Placement Test Apparatus on Drop-down Drawer Front, No Interlocks	
 Test Block Placement Test Apparatus on Drawer Front, With Interlocks	 Test Block Placement Test Apparatus on Door, with Interlocks	 Test Block Placement Test Apparatus on Drawer with Drop-down Drawer Front, with Interlocks	
All doors opened 90°	All drawers extended to the outstop or, in the absence of such feature, to 2/3 (66 %) of their operational sliding length	All pullout shelves extended to the outstop or, in the absence of such feature, to 2/3 (66 %) of their operational sliding length	Flaps or drop fronts opened to their horizontal position or as near horizontal as possible
NA	Yes	NA	NA

Components	Test Weights	Time of application of the test weight [s]	Rating
Extendable Element 1	60.0 lb (27.2 kg)	30	P
Extendable Element 2	60.0 lb (27.2 kg)	30	P
Extendable Element 3	60.0 lb (27.2 kg)	30	P
Extendable Element 4	60.0 lb (27.2 kg)	30	P
Extendable Element 5	60.0 lb (27.2 kg)	30	P
Extendable Element 6	60.0 lb (27.2 kg)	30	P
Extendable Element 7	60.0 lb (27.2 kg)	30	P
Extendable Element 8	60.0 lb (27.2 kg)	30	P

Note:

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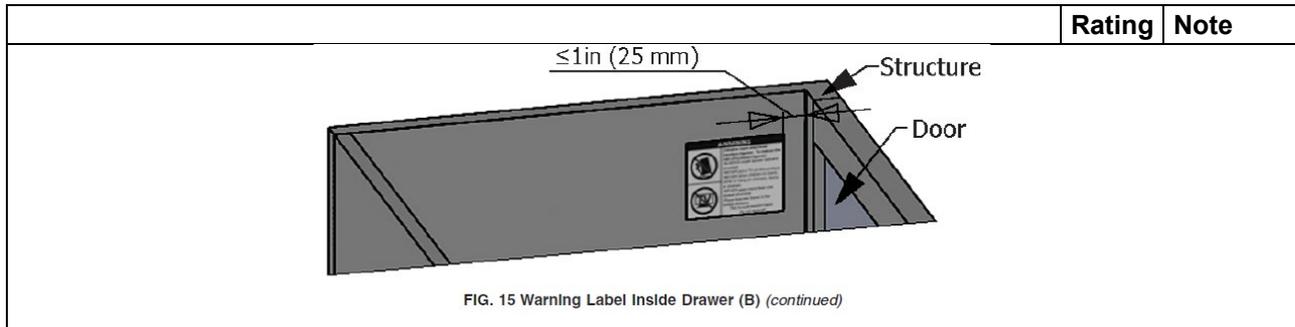
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	Rating	Note
9.3 Permanency of Labels and Warnings Testing:	P	
9.3.1 A paper label shall be considered permanent if, during an attempt to remove it without the aid of tools or solvents, it cannot be removed, it tears into pieces upon removal, or such action damages the surface to which it is attached.	P	
9.3.2 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.	NA	
9.3.3 Adhesion Test for Warnings Applied Directly onto the Surface of the Product	NA	
9.3.3.1 Apply the tape test defined in Test Method B – Cross-Cut Tape Test of Test Methods D3359 eliminating parallel cuts.	NA	
9.3.3.2 Perform this test once in each different location where warnings are applied.	NA	
9.3.3.3 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.	NA	
10 Marking and Labeling	P	
10.1 Warnings on Product:	P	
10.1.1 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 warnings shall be applied on one surface, not wrapped or folded around or over corners.	P	
(1) The warnings are inside a drawer box on a drawer side with the top of the signal word panel 0.5 in. (12.7 mm) or less from the top of the drawer side and the border or edge of the label 3 in. (76 mm) or less from the back of the drawer front; they are not required to be visible on all drawers. It is permissible for the warnings to be on either drawer side. See Fig. 15. Or,	P	
(2) The warnings are visible anywhere on the open door or on the cabinet side adjacent to the door no more than 1 in. (25 mm) from the doors closed position or the structure of the unit, whichever is farther from the front, when any hinged door, not each door, is open; they are not required to be visible behind all doors. See Fig. 15 (B). Or,	NA	
(3) The warnings are visible on the cabinet side adjacent to the door no more than 1 in. from the door's closed position when any sliding door, not each door, is fully open, or the structure of the unit near the door, whichever is farther from the front. If doors have different distances from the front, this dimension shall apply to the farthest back door; they are not required to be visible behind all doors. See Fig. 15. Or,	NA	
(4) The warnings from 10.2.3.1 and 10.2.3.3 and the symbol from Fig. 20 shall meet Condition 1 and contain language directing the user to the bottom of the same drawer and the full warning shall be on the inside face of the drawer bottom.	NA	

FIG. 15 Warning Label Inside Drawer (A)

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10.2 Warnings Format and Content:	P	
10.2.1 The warnings shall be formatted in a manner consistent with ANSI Z535.4. See photo for examples.	P	

	<p style="text-align: center;">Black/White Version</p>

Example Warnings for Clothing Storage Units that are Not Designed and Intended by the Manufacturer to be Used with a TV	Example Warnings for Clothing Storage Units that are Designed and Intended by the Manufacturer to be Used with a TV
10.2.2 The signal word panel shall include the Safety Alert Symbol “▲” and state “WARNING”	P
10.2.2.1 “WARNING” shall be in all caps, bold face type not less than 0.15 in. (3.8 mm) capital letter height in a sans serif font. The letter color shall be safety black on a safety orange or safety white background, or safety white on a safety black background.	P
10.2.2.2 The Safety Alert Symbol is composed of an equilateral triangle surrounding an exclamation mark. It shall be presented in one of five color formats when used with the WARNING signal word:	P
(1) A safety black triangle with a safety orange exclamation mark, or;	P
(2) A safety yellow triangle with a safety black border and safety black exclamation mark—to allow consistency with certain ISO standards, or;	NA
(3) A safety yellow triangle with a safety black exclamation mark and a yellow border around a safety black band—to allow consistency with certain ISO standards, or; mark—for black and white only formats, or;	NA



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	Rating	Note
(4) A safety black triangle with a safety white exclamation	NA	
(5) A safety white triangle with a safety black exclamation mark—for black and white only formats.	NA	
10.2.3 In the following sections, the plain type is descriptive information; bold type is used for the required warning statements. The warning statements, unless otherwise noted, shall be included as stated. All text shall be a sans serif font, not less than 0.1 in. (2.5 mm) capital letter height. The text shall be safety black letters on a safety white background or the letters shall contrast the background.	NA	
10.2.3.1 The warning message panel shall begin with the following statement in bold face type. Children have died from furniture tipover. To reduce the risk of furniture tipover:	P	
10.2.3.2 The warning message panel shall include the following statements, preceded by a bullet point, in the order given	P	
10.2.3.3 ALWAYS install anti-tip device provided.	P	
10.2.3.4 Television use shall be addressed in the warnings by following either 10.2.3.4(1) or 10.2.3.4(2). (1) For clothing storage units that are not designed and intended by the manufacturer to be used with a TV shall state: NEVER put a TV on this product. (2) For clothing storage units that are designed and intended by the manufacturer to be used with a TV, the warning shall address TV use.	P	
10.2.3.5 NEVER allow children to stand, climb, or hang on any drawers, doors, or shelves. It is permissible to exclude any feature not included on the unit.	P	
10.2.3.6 NEVER open more than one drawer at a time. It is permissible to exclude any feature not included on the unit.	P	
10.2.3.7 When the unit includes interlocking drawers: DO NOT defeat or remove the drawer interlock system; it is an important stability and safety system. Units that do not include interlocking drawers shall not use this statement. It is permissible to remove “drawer,” add the appropriate parts and features to this statement, or to address any specific use characteristics of the interlock system.	NA	
10.2.3.8 Place heaviest items in the lowest drawers. It is permissible to change drawers to a term/location better matching the unit.	P	
10.2.3.9 The following statement is required below all other text, in italic letters: <i>This is a permanent label. Do not remove!</i> Alternatively, the following shall be used when markings other than a label are used and may be used with any marking type: <i>This warning is permanent. Do not remove!</i> The statement may not be larger type than any other wording on the warning.	P	
10.2.3.10 For units with interlock systems described in 4.6.1.3(2), a warning addressing: DO NOT remove the interlock system except for maintenance as shown. NEVER use the unit without the interlock installed following the instructions. shall be added to each drawer in a location near the interlock hardware; instructions shall be shown or a location with instructions shall be referenced. See Fig. 19.	NA	See 4.6.1.3(1)

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		Rating	Note												
<table border="1"> <thead> <tr> <th colspan="2">⚠ WARNING</th> <th colspan="2">⚠ WARNING</th> </tr> </thead> <tbody> <tr> <td></td> <td> <p>Children have died from furniture tipover. To reduce the risk of furniture tipover:</p> <ul style="list-style-type: none"> -ALWAYS install Anti-tip device provided. -NEVER put a TV on this product. -NEVER allow children to stand, climb or hang on drawers, doors, or shelves. -NEVER open more than one drawer at a time. -DO NOT defeat or remove the drawer interlock system; it is an important stability and safety system. -Place heaviest items in the lowest drawers. <p><i>This is a permanent label. Do not remove!</i></p> </td> <td></td> <td> <p>Children have died from furniture tipover. To reduce the risk of furniture tipover:</p> <ul style="list-style-type: none"> -ALWAYS install Anti-tip device provided. -NEVER put a TV on this product. -NEVER allow children to stand, climb or hang on drawers, doors, or shelves. -NEVER open more than one drawer at a time. -DO NOT defeat or remove the drawer interlock system; it is an important stability and safety system. -Place heaviest items in the lowest drawers. <p><i>This is a permanent label. Do not remove!</i></p> </td> </tr> <tr> <td></td> <td> <p>Children have died from furniture tipover. To reduce the risk of furniture tipover:</p> <ul style="list-style-type: none"> -ALWAYS install Anti-tip device provided. -NEVER put a TV on this product. -NEVER allow children to stand, climb or hang on drawers, doors, or shelves. -NEVER open more than one drawer at a time. -DO NOT defeat or remove the drawer interlock system; it is an important stability and safety system. -Place heaviest items in the lowest drawers. <p><i>This is a permanent label. Do not remove!</i></p> </td> <td></td> <td> <p>DO NOT remove the interlock system except for maintenance as shown. NEVER use the unit without the interlock installed following the instructions.</p> <p>System Specific Instructions for interlock installation. System Specific Instructions for interlock installation. System Specific Instructions for interlock installation.</p> </td> </tr> </tbody> </table>		⚠ WARNING		⚠ WARNING			<p>Children have died from furniture tipover. To reduce the risk of furniture tipover:</p> <ul style="list-style-type: none"> -ALWAYS install Anti-tip device provided. -NEVER put a TV on this product. -NEVER allow children to stand, climb or hang on drawers, doors, or shelves. -NEVER open more than one drawer at a time. -DO NOT defeat or remove the drawer interlock system; it is an important stability and safety system. -Place heaviest items in the lowest drawers. <p><i>This is a permanent label. Do not remove!</i></p>		<p>Children have died from furniture tipover. To reduce the risk of furniture tipover:</p> <ul style="list-style-type: none"> -ALWAYS install Anti-tip device provided. -NEVER put a TV on this product. -NEVER allow children to stand, climb or hang on drawers, doors, or shelves. -NEVER open more than one drawer at a time. -DO NOT defeat or remove the drawer interlock system; it is an important stability and safety system. -Place heaviest items in the lowest drawers. <p><i>This is a permanent label. Do not remove!</i></p>		<p>Children have died from furniture tipover. To reduce the risk of furniture tipover:</p> <ul style="list-style-type: none"> -ALWAYS install Anti-tip device provided. -NEVER put a TV on this product. -NEVER allow children to stand, climb or hang on drawers, doors, or shelves. -NEVER open more than one drawer at a time. -DO NOT defeat or remove the drawer interlock system; it is an important stability and safety system. -Place heaviest items in the lowest drawers. <p><i>This is a permanent label. Do not remove!</i></p>		<p>DO NOT remove the interlock system except for maintenance as shown. NEVER use the unit without the interlock installed following the instructions.</p> <p>System Specific Instructions for interlock installation. System Specific Instructions for interlock installation. System Specific Instructions for interlock installation.</p>		
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<p>10.2.4 Each safety symbol panel shall measure at least 1.25 in. by 1.25 in. (31.8 mm by 31.8 mm); each safety symbol shall measure at least 1 in. by 1 in. (25.4 mm by 25.4 mm). Each symbol shall be safety black with either a safety black or safety red prohibition symbol or the symbol shall contrast with the background. The safety symbol panel for each symbol shall be bounded on all sides with a safety black line or the line shall contrast with the background.</p>		P													
<p>10.2.4.1 The child climbing prohibition symbol shown in the figure below shall be used on all warning labels.</p> <div style="text-align: center;"> </div>		P													
<p>10.2.4.2 The TV prohibition symbol shown shown in the figure below shall be used on units that include the warning in 10.2.3.4(1).</p> <div style="text-align: center;"> </div>		P													
<p>10.2.5 The contents of the warnings shall not be modified except as specifically indicated above and/or to include languages other than English.</p>		P													
<p>10.2.6 The warnings shall be permanent when tested in accordance with 9.3.1, 9.3.2, or 9.3.3 as appropriate.</p>		P													

Note:

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ASTM F2057 - 23 cl. 4.5 - Tip Restraint Requirements

Performance requirements F3096 - 23

4. Test Method

4.1 Assemble tipover restraint components including provided fasteners in accordance with manufacturer's instructions.

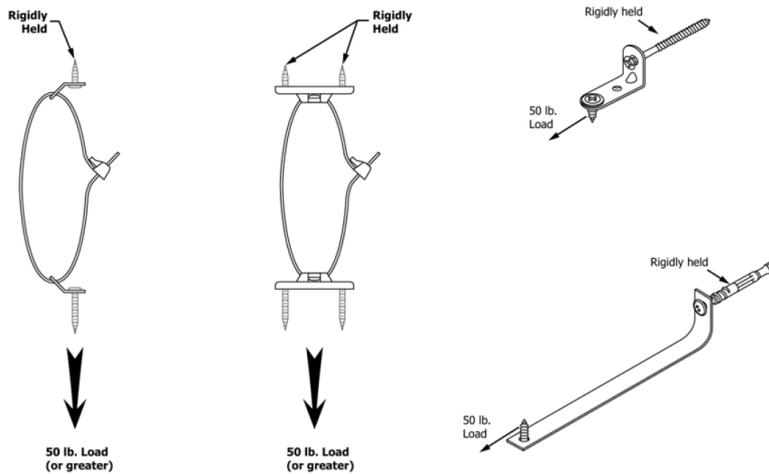
4.2 Rigidly suspend the assembly by securing one end of the tipover restraint by gripping directly, or attaching to a fixed structure (for example, wooden block). See figure below for test method examples for commonly used tipover restraints.

4.3 Attach a loading device to the fastener(s) on the opposite end of restraint.

4.4 Gradually, over a period of not less than 2 s nor greater than 15 s, apply the static load of 60 lbs (27.22kg) and maintain for an additional 30 s.

4.5 If the fastener(s) become unattached from the test structure (wood block or fixed structure) in such a way that it prohibits the completion of the test, then the fastener(s) are to be reattached using whatever means possible without affecting the test results of the assembly.

Tipover Restraint Strength ASTM F3096 – 23 cl. 4



Applied load	Time to reach the load [s]	Time of application of the load [s]	Rating
60 lbs (27.22kg)	2-15	30	P

	Rating	Note
ASTM F3096 - 23 cl.5 Instructional Literature	P	
5.1 Installation instructions shall include at a minimum the following:	P	
5.1.1 Illustration showing installation method.	P	
5.1.2 Detailed written instructions with step by step instructions on how to properly attach the tipover restraint.	P	
5.1.3 Parts list including illustrations.	P	
5.2 Clear and complete installation instructions for the tipover restraint shall be included.	P	
ASTM F3096 - 23 cl 6 Labeling Requirements	P	
6.1 The following information shall be provided with each tipover restraint:	P	
6.1.1 Manufacturer's name and address.	P	
6.1.2 Date of manufacture (capable of identifying at a minimum the month and year of manufacture).	P	

Note:



TEST REPORT: 4791111930.1

Issued on: 19/12/2023 (dd/mm/yyyy)

Legend:

- P** = PASS, the sample MEETS the standard requirement.
- F** = FAIL, the sample DOES NOT MEET the standard requirement.
- NA** = NON APPLICABILE, the requirement/test IS NOT APPLICABLE to the sample.
- NR** = NOT REQUESTED, On Customer request the test is NOT PERFORMED.
- NP** = General note (see details).
- ND** = NOT DECLARED.
- //** = The rating of test CANNOT BE EXPRESSED, see details in test report

END OF THE TEST REPORT