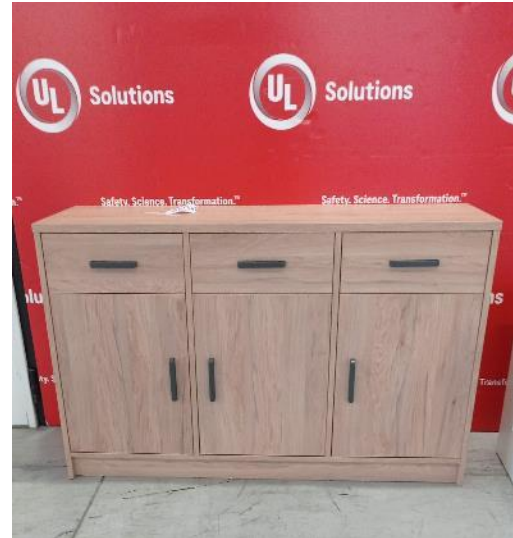




# TEST REPORT: 4791224096.1

## APPLICANT

**Name:** Pineapple Contracts Unlimited  
**Address:** Westmead  
 Aylesford, ME20 6XJ  
 United Kingdom



**Product:** Harby 3-door, 3 drawer cupboard

## DATE

Sample in:	22/4/2024	(dd/mm/yyyy)
Tests start:	22/4/2024	(dd/mm/yyyy)
Tests end:	23/5/2024	(dd/mm/yyyy)
Report issue:	23/5/2024	(dd/mm/yyyy)

## OVERALL DIMENSIONS:

<b>Measured:</b>	<b>Depth:</b>	450 mm;	<b>Height:</b>	829 mm
	<b>Width:</b>	1330 mm	<b>Weight:</b>	42.7 kg
<b>Nominal:</b>	<b>Depth:</b>	ND;	<b>Height:</b>	ND;
	<b>Width:</b>	ND;	<b>Weight:</b>	ND;
<b>Sample number</b>	6986513	<b>Order Number:</b>	15205295	

## REFERENCE STANDARD

### ANSI/BIFMA X5.9:2019 Storage Units

NOTE: clauses considered as not applicable to the product are not listed in this report.

**Sample defects before the test: NO VISIBLE DEFECTS**

Tests have been performed at a temperature of 21 ± 2 °C

The tests have been performed on 1 sample (s) as requested by the customer

The sample is classified as Type: I

**Technician**  
Marco Tita

**Laboratory Manager**  
Matteo Longoni

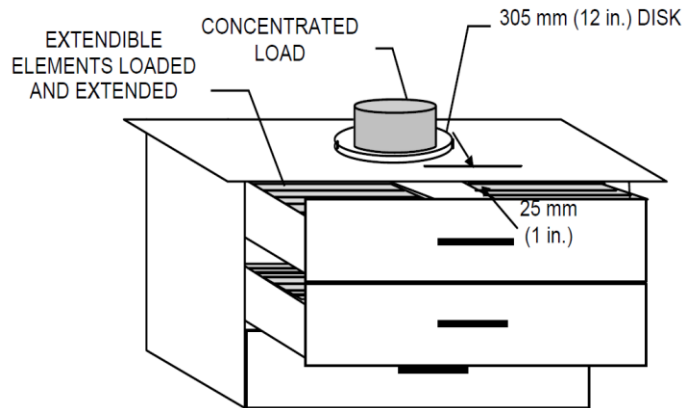
*Note: any copy, even partial, of this report, and any change or alteration to it are strictly forbidden.  
 The test results listed in this report are relevant only for the tested sample. Sampling performed by the customer.*

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**4 Unit Strength Test**

**4.2 Concentrated Functional Load Test**



**Height from the floor:** 829 mm

**Distance of the load disk (305 mm diameter) center from the table edge:** 178 mm

**Length of sample:** 1330 mm

**The concentrated load was applied:** The disc of load has been positioned to 25 mm from the edge

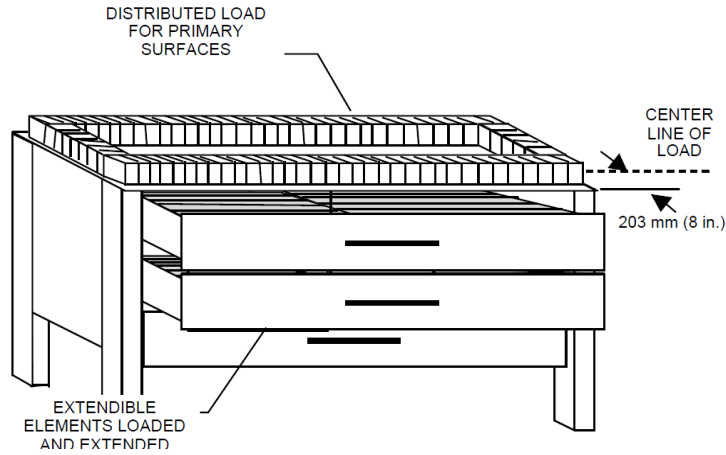
Total load applied (kg)	Vertical load (kg)	Time of test (minutes)	Force required to extract the extendible elements (N)	Rating
247.3 (Shelves+Drawers+Bottoms+top)	91	60	14	P

**Note:** The load is determined according to table 1 and table 2. Force required to extract the extendible elements is not greater than 50 N.

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**4.3 Distributed Functional Load Test**



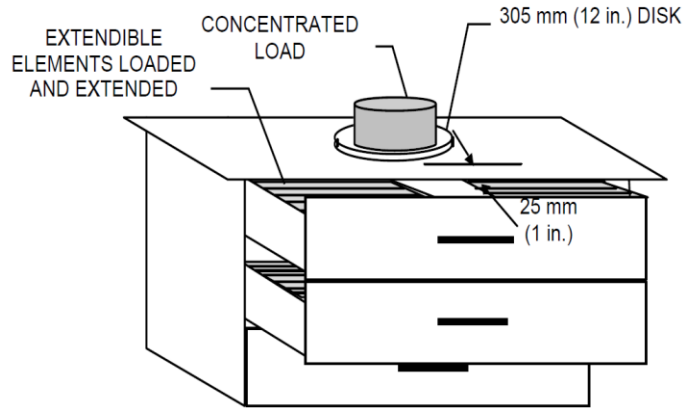
Total load applied (kg)	Load applied on top (kg)	Time of test (minutes)	Force required to extract the extendible elements (N)	Rating
-	-	60	-	NA

**Note:**.. Test not applicable, since the top surface is less than 0.65 m<sup>2</sup> . (measured 0.598 m<sup>2</sup>)

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**4.4 Concentrated Proof Load Test**



**Height from the floor:** 829 mm

**Distance of the load disk (305 mm diameter) center from the table edge:** 178 mm

**Length of sample:** 1330 mm

**The concentrated load was applied:** The disc of load has been positioned to 25 mm from the edge

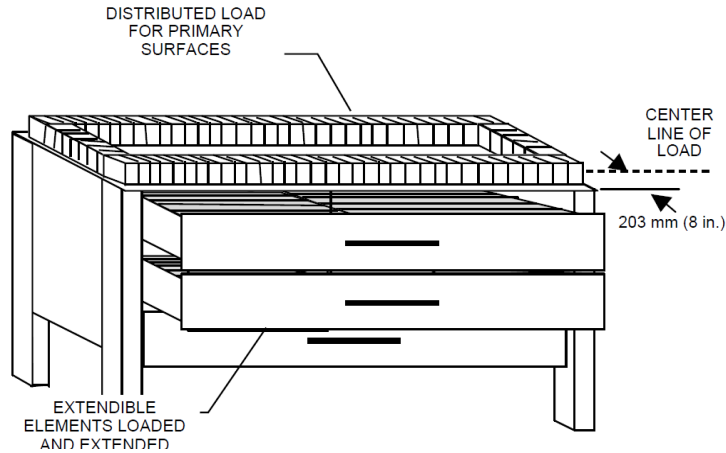
Total load applied (kg)	Vertical load (kg)	Time of test (minutes)	Force required to extract the extendible elements (N)	Rating
292.3 (Shelves+Drawers+Bottoms+top)	136	15	-	P

**Note:** The load is determined according to table 1 and table 2. Force required to extract the extendible elements is not greater than 50 N.

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**4.5 Distributed Proof Load Test**



Total load applied (kg)	Load applied on top (kg)	Time of test (minutes)	Force required to extract the extendible elements (N)	Rating
-	-	15	-	NA

**Note:** Test not applicable, since the top surface is less than 0.65 m<sup>2</sup> . (measured 0.598 m<sup>2</sup>)

**4.6 Extendible Element Static Load Tests**

**4.6.2 Extendible Element Functional Load Test**

See rating of 4.2 Concentrated Functional Load Test and 4.3 Distributed Functional Load Test

**4.6.3 Extendible Element Proof Load Test**

Extendible Element	Step	Load applied (kg)	Time of test (minutes)	Rating
1	Close	13	15	P
	Open	13	15	P

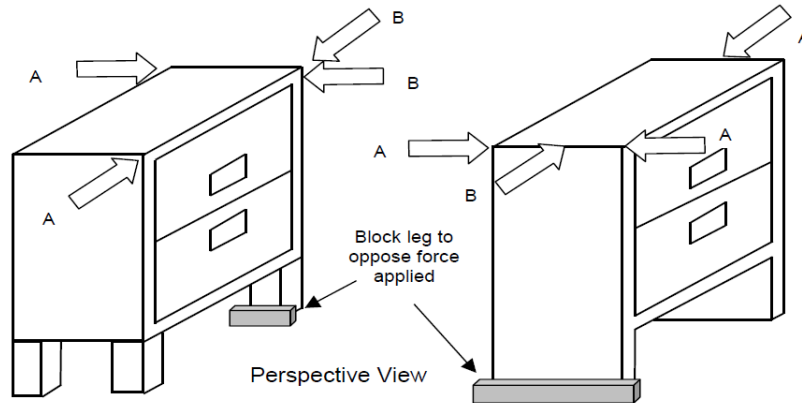
**Note:** The load is determined according to table 1

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**5 Leg/Glide Assembly Strength Test**

**Functional Test**



LEGS OR GLIDES NOT "INTERCONNECTED"

LEGS "INTERCONNECTED"

Distance of load measured from the floor: 829 mm

Weight ≤ 18 kg						
Force calculation formula (Af)	Force calculated (Af) (N)	Force applied (Af) (max. 445 N) (N)	Force calculation formula (Bf)	Force applied (Bf) (N)	Force required to extract the extendible elements (N)	Rating
0.5 (unit weight, kg) x 9.8 +44	-	-	0.5 x A <sub>P</sub>	-	-	NA

Note: Weight of the sample more than 18 kg

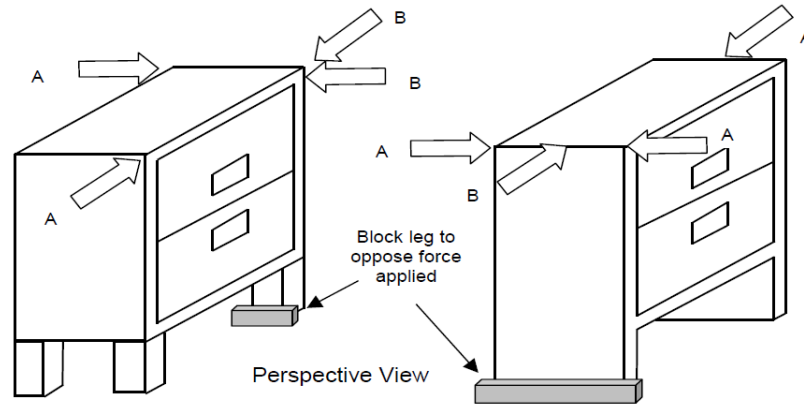
Weight > 18 kg						
Force calculation formula (Af)	Force calculated (Af) (N)	Force applied (Af) (max. 445 N) (N)	Force calculation formula (Bf)	Force applied (Bf) (N)	Force required to extract the extendible elements (N)	Rating
0.5 x (unit weight, kg) x 9.8 +222	431.2	431.2	0.5 x A <sub>P</sub>	215.6	215.6	P

Note: Force required to extract the extendible elements is not greater than 50 N.

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**Proof Test**



LEGS OR GLIDES NOT "INTERCONNECTED"

LEGS "INTERCONNECTED"

Distance of load measured from the floor: 829 mm

Weight ≤ 18 kg					
Force calculation formula (A <sub>p</sub> )	Force calculated (A <sub>p</sub> ) (N)	Force applied (A <sub>p</sub> ) (max. 667 N) (N)	Force calculation formula (B <sub>p</sub> )	Force applied (B <sub>p</sub> ) (N)	Rating
1.5 x [0.5 (unit weight, kg) x 9.8 +44]	-	-	0.5 x A <sub>p</sub>	-	NA

**Note:** Weight of the sample more than 18 kg

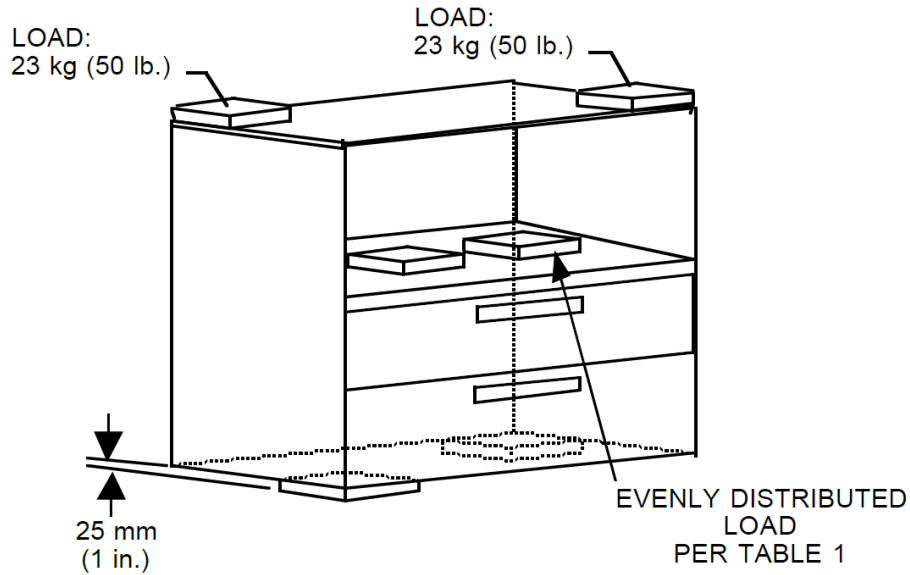
Weight > 18 kg					
Force calculation formula (A <sub>p</sub> )	Force calculated (A <sub>p</sub> ) (N)	Force applied (A <sub>p</sub> ) (max. 667 N) (N)	Force calculation formula (B <sub>p</sub> )	Force applied (B <sub>p</sub> ) (N)	Rating
1.5 x [0.5 x (unit weight, kg) x 9.8 +222]	646.8	646.8	0.5 x A <sub>p</sub>	323.4	P

**Note:** B<sub>p</sub> = (1.5 x B<sub>f</sub>) = (1.5 x 0.5 x A<sub>f</sub>) = 0.5 x A<sub>p</sub>.

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**6 Racking Resistance Test**



Total load applied (kg)	Time of test (minutes)	Force required to extract the extendible elements (N)	Rating
23.2x3 Bottoms 20.4x3 Shelves 8.5x3 Drawers	60	14	P

**Note:** Force required to extract the extendible elements is not greater than 50 N.

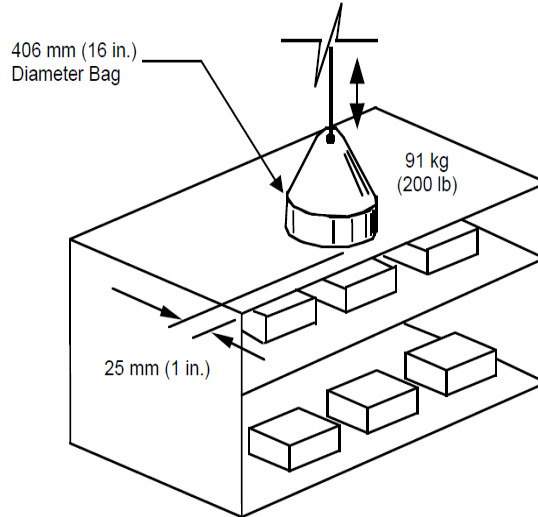


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**7 Vertical Load Durability Tests**

**7.1 Top Load Ease Cycle Test**



**Height from the floor:** 829 mm

**Depth of the top:** 450 mm

**Distance between the bag and the edge:** 22 mm

Weight the bag of test (kg)	Total load applied (kg)	N° cycles	Frequency cycles (cycles/minute)	Force required to extract the extendible elements (N)	Rating
91	156.3 (Shelves+Drawers+Bottoms)	10.000	15	14	P

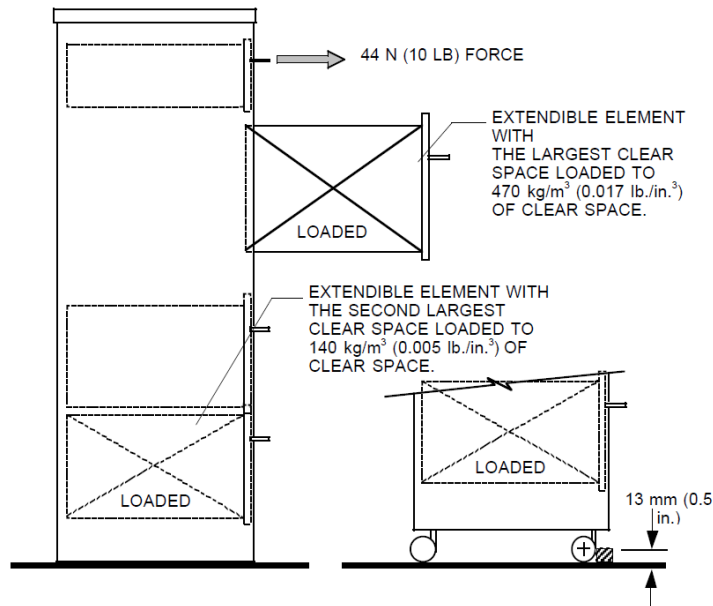
**Note:** Force required to extract the extendible elements is not greater than 50 N. The load is determined according to table 1 and 2.

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**9 Stability Tests**

**9.3 Stability Test for Type I Units with at least one Extendible Element**



Load applied on the lowest storage component	Load applied on the extendible element	Horizontal force applied (N)	Rating
-	8.5	44	P

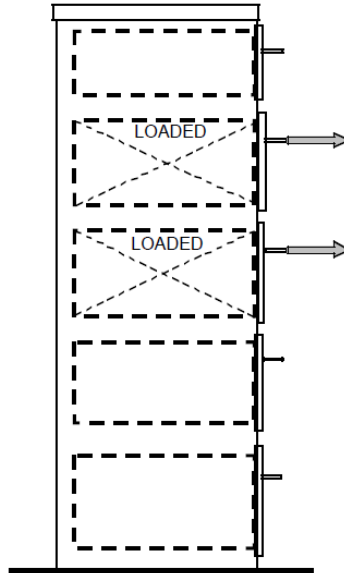
Note:



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**9.4 Stability Test for Type I Storage Units with Multiple Extendible Elements**



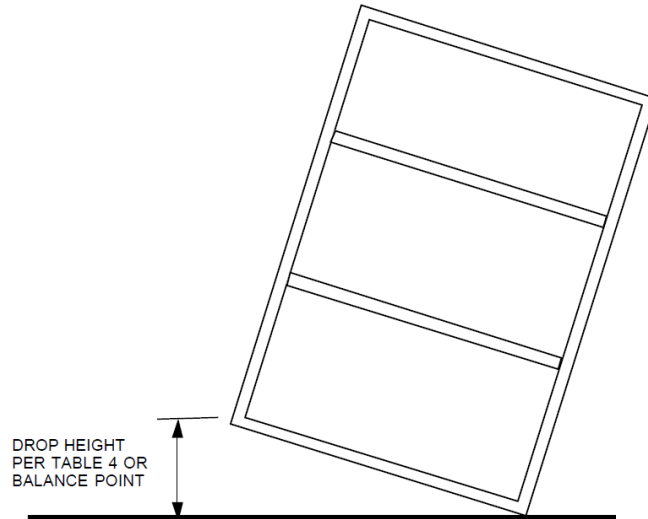
Load applied on two extendible elements	The sample overturns	Rating
8.5	NO	P

**Note:**

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10 Storage Unit Drop Test



Length of sample: 1330 mm

Weight of sample: 42.7 kg

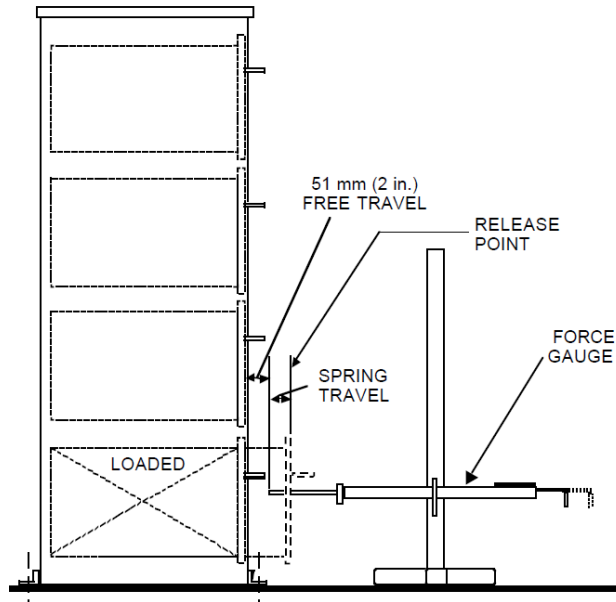
Weight of sample (kg)	Drop height (mm)	N° cycle	Force required to extract the extendible elements (N)	Rating
< 45	180	1 + 1	14	P
45 - 90	120	1 + 1	-	NA
> 90 – 136	60	1 + 1	-	NA
> 136	-	-	-	NA

**Note:** Force required to extract the extendible elements is not greater than 50 N.

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**12 Extendible Element Rebound Test**



Pull Force Test - Before the test		
Load applied on the element extensible (kg)	Force applied (N)	Rating
8.5	50	P

Note:

Load applied on the element extensible (kg)	Force applied (N)	Distance of the drawer from the fully closed position after the test (mm)	Maximum distance of the drawer from the fully closed position after the test (mm)	Cycles	Rating
8.5	8.3	1	38	1	P
8.5	8.3	1	38	2	P
8.5	8.3	1	38	3	P
8.5	8.3	1	38	4	P
8.5	8.3	1	38	5	P

Note: The load is determined according to table 1.

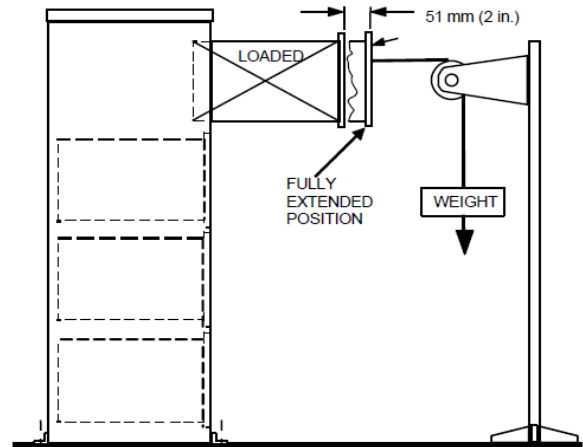
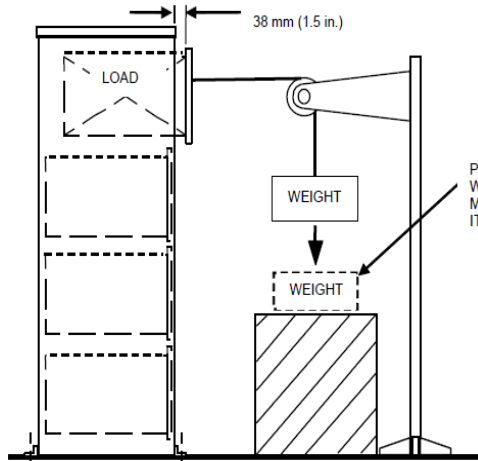
Pull Force Test - After the test		
Load applied on the element extensible (kg)	Force applied (N)	Rating
8.5	50	P

Note:

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**13 Extendible Element Retention Impact and Durability (Out Stop) Tests**



Minimum weight that causes the extendible element to open to its full extension from 38mm from fully closed [kg]	Test weight (measured one +2.3 kg)	Number of cycles (without resetting air gaps) from fully closed, with restrained weight	Number of cycles with drawer 51 mm from its fully open position and not restrained weight	Frequency (14±6 cycles/minute) [cycles / minute]	Rating
1.4	2.3+1.4 = 3.7	5	7500	14	P

**Note:** The load is determined according to table 1

**Pull Force Test - After the test**

Load applied on the element extensible (kg)	Force applied (N)	Rating
8.5	50	P

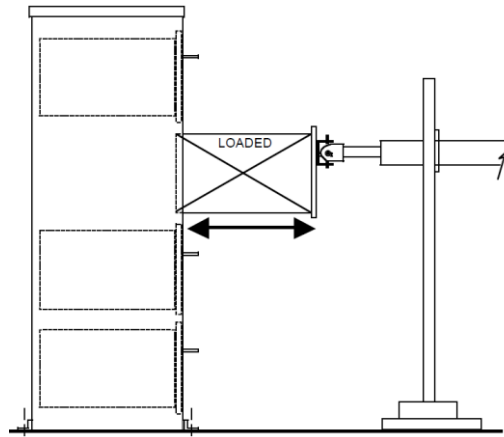
**Note:**

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**15 Extendible Element Cycle Tests**

**15.3 Cycle Test for Extendible Elements Wider Than Deep**



**Pull Force Test - Before the test**

Load applied on the element extensible (kg)	Force applied (N)	Rating
8.5	50	P

**Note:** The load is determined according to table 1.:

**Single pull  $\leq$  33% extendible element width element width or  $\leq$  457 in width  
(center pulls and single side pulls)**

Load applied on the element extensible (kg)	Frequency (cycles /minute)	Cycles	Rating
8.5	12	50.000	P

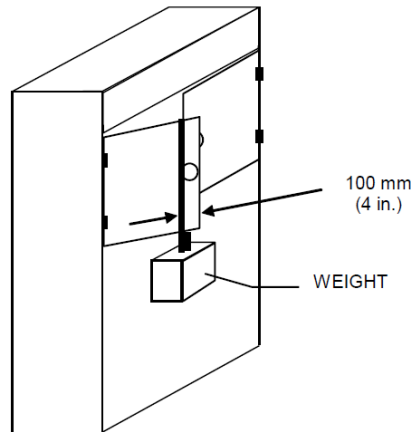
**Note:** The load is determined according to table 1. The force has been applied via the handle.

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17 Door Tests

17.2 Strength Test for Vertically Hinged Doors, Bi-fold Doors and Vertically Receding Doors

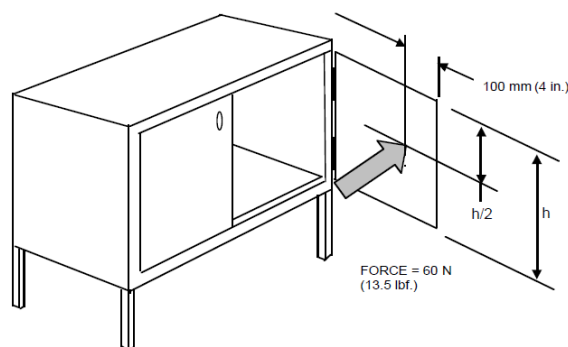


Door height: 530 mm

Vertically Hinged Doors				
Door height (mm)	Load applied on the door [kg]	Load point (mm)	Cycles	Rating
< 460	10	100	10	NA
> 460	20	100	10	P

**Note:** Door opened from a position 45° from fully closed to a position 10° from fully open, up to a maximum of 135°.

17.3 Hinge Override Test for Vertically Hinged Doors



Horizontal force [N]	Load point	Cycles	Rating
60	100 mm from the edge farthest from the hinge	10	P

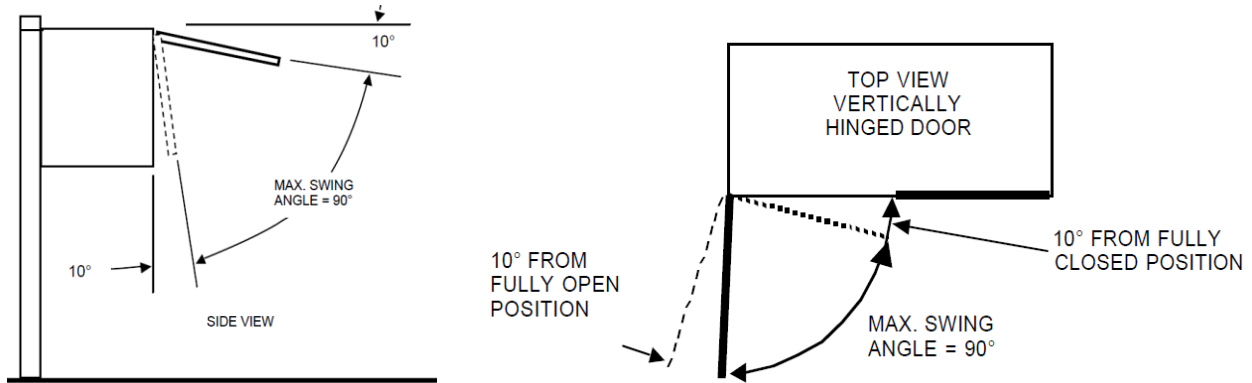
**Note:**



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17.6 Wear and Fatigue Tests for Hinged, Horizontally Sliding and Tambour Doors



Hinged or Tambour Doors

Center Pull - Single Side Pull

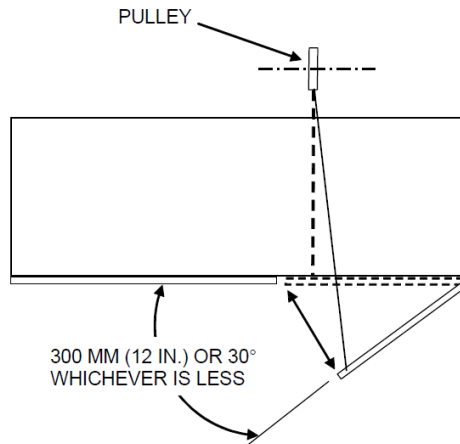
N° cycle	Frequency [cycles / minute]	Rating
20.000	10	P

**Note:** the test cycle consists at position 10 degrees from fully closed to a position 10 degrees from fully open, moreover the swing angle not to exceed to of 90 degrees

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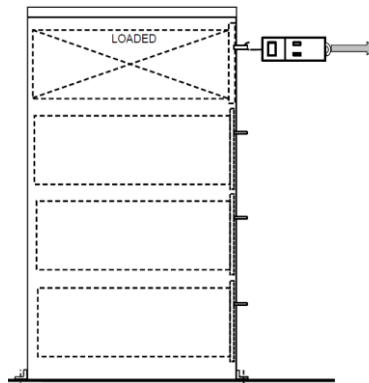
17.10 Slam Closed Test for Vertically Hinged and Vertically Receding Doors



Load applied on door (kg)	Weight to just move the door [kg]	Addition weight [kg]	Test weight	N° cycle	Rating
-	0.6	2.0	2.6	10	P

Note: The load is determined according to table 1.

20 Pull Force Test



Component	Load applied (kg)	Requirement (N)	Rating
1	8.5	50	P

Note: The load is determined according to table 1.



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**Key:**

- P** = PASS, the sample MEETS the standard requirement.
- F** = FAIL, the sample DOES NOT MEET the standard requirement.
- NA** = NON APPLICABLE, 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

**FINE RAPPORTO / END OF TEST REPORT**