

OFFICIAL Documentation





Performance Quality TEST REPORT Base Cabinet Battery

The purpose of this test method is to document the performance, structural integrity, and/or the physical endurance of a casework assembly that is created and documented by various joinery methods, materials, adhesives, and hardware components.

Original Rights Holder

Intelligent Fixings Limited 14 Wedgewood Court, Wedgewood Way Hertfordshire United Kingdom

This report shall not be reproduced. Results contained within this report only apply to the actual item tested under the testing conditions documented within this report.

dest these results have been filed testing report database

Copyrights of this document are owned by Architectural Woodwork Institute. Reproductions of any form are prohibited. Partial submission of report not valid for any type of compliance.

ORIGINAL Official Report

ISSUE DATE 07/30/2024

EXPIRATION DATE 08/31/2025

POTR IDENTIFICATION NUMBER

AWITR 002362024A 001

Independent Testing Agency

Architectural Woodwork Institute 46179 Westlake Drive, Suite 120 Potomac Falls, VA 20165

Laboratory Testing Service Order 214890

Laboratory Customer ID 90027507

Laboratory Battery # BCB-24009

BC1 Specimen #

BC1-24009 **BC2 Specimen #**

BC2-24009

Date of Receipt

07/24/2024

Date of Test(s) 07/29/2024

Authorizing Laboratory Signee of Official Results

AWI National Testing Center

Signee hereby attest the findings throughout this report are true and accurate. All data was ered emuting the test methodology wighout or concerno

Hunter Morrison, Technical Director

Page 1 of 43 PQTR# AWITR 002362024A 001

TEST SUMMARY



Base Cabinet Battery

The purpose of this test method is to document the performance, structural integrity, and/or the physical endurance of a finishing technology when exposed to adhesive elements.

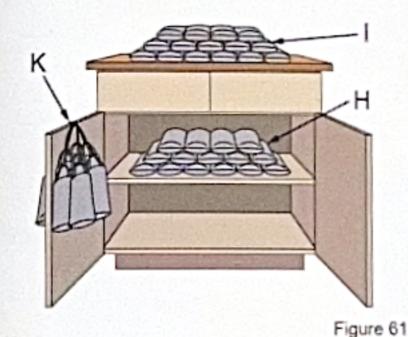
3.0 Significance and Use

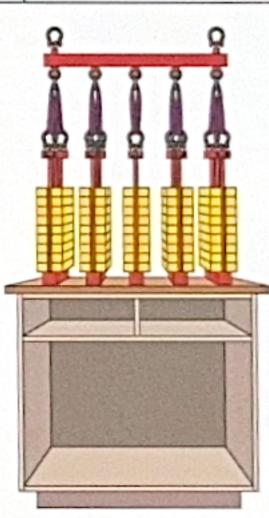
This test method will not determine the useful life of architectural casework resulting from the test data obtained. It will, however, indicate casework performance outcomes from test loads over time. This test method is not intended to determine serviceability of hardware components.

Test data will provide useful information for architects, design professionals, and manufacturers in making judgments on the ability of an architectural casework assembly to maintain serviceability under actual loading and operating conditions.

BC1 Duty Level Values

PERFORMANCE DUTY LEVEL	ASSEMBLED UNIT LOAD	TYPICAL APPLICATION	
Duty Level 1	45 lb./sq. ft	Light Commercial	
Duty Level 2	70 lb./sq. ft	Commercial	
Duty Level 3	90 lb./sq. ft	Institutional	
Duty Level 4	115 lb./sq. ft	Laboratory	





BC2 Duty Level Values

PERFORMANCE DUTY LEVEL	ASSEMBLED UNIT LOAD	TYPICAL APPLICATION
Duty Level 1	135 lb./sq. ft	Light Commercial
Duty Level 2	200 lb./sq. ft	Commercial
Duty Level 3	265 lb./sq. ft	Institutional
Duty Level 4	330 lb./sq. ft	Laboratory

Copyrights of this document are owned by Architectural Woodwork Institute. Reproductions of any form are prohibited. Partial submission of report not valid for any type of compliance.

5.2 Test Specimen Assembly 5.2.1 Specimen Materials

The base casework specimen may be constructed of any material and joinery combination, provided that the materials, fasteners, combination of fasteners,

spacing, and machining operation details are fully documented by way of drawing information conveyance.

5.2.2 Specimen Size Requirements

The base casework specimen shall consist of a base cabinet primarily supported by transfer of load directly to the floor/ground with overall outside dimensions of 914 mm [36"] (+/- 1") in width, 762 mm [30"] (+/-1") in height (863 mm [34"] with integrated base or legs), and 610 mm [24"] (+/- 1")] in depth, including faces of doors and drawer fronts. The test specimen shall include, at minimum, the following assembly components:

- One left vertical side component
- · One right vertical side component
- · One top horizontal component
- · One bottom horizontal component
- · One horizontal adjustable shelf component, adjustable in the horizontal plane and placed at the interior's vertical midpoint (+/- 1"):
- One vertical back component
- · Two vertical hinged doors
- · Two drawers with attached fronts

DUTY LEVEL VALUES

These load values do not suggest service loads nor shall they be construed as suggesting normal casework usage loads.

Page 2 of 43 PQTR# AWITR 002362024A 001

TEST SUMMARY



TEST SUMMARY



Summarized Results of Casework Test

Base Cabinet Battery

DUTY LEVEL 3

TEM	NOM. THICK	CORE	CORE	FACE MATERIAL	BACK MATERIAL	
ITEM	Lings	D Leard (MEC)	P2	TFL	TFL	
Left Vertical Side		Particleboard (MFC)	1,000	TFL	TFL	
Right Vertical Side	18.3mm	Particleboard (MFC)	P2	IFL		
Top Horizontal	18.3mm	Particleboard (MFC)	P2	TFL	TFL	

Component TFL TFL 18.3mm Particleboard (MFC) Bottom Horizontal Component TFL TFL Particleboard (MFC) Adjustable Shelf 18.3mm Particleboard (MFC) Vertical Back Component TFL TFL 18.3mm Particleboard (MFC) Hinged Doors TFL TFL 18.3mm Particleboard (MFC) Drawer Fronts N/A N/A

Test Battery

Findings:

There was no loss of serviceability as a result of the base cabinet test battery. Casework construction methodology BCB-24009 passes Duty Level 3.

Casework Test Results

N/A

TEST	SPECIMEN	TARGET DUTY LEVEL	RESULT
BC-1-Assembled Unit Test	BC1-24009	3	Passed
BC-2-Structural Integrity Test	BC2-24009	3	Passed

8.2 Nonconformities

Nailer Component N/A

None found during this successful attempt.

Casework Test Loads

BATTERY	SPECIMEN	TEST	COMPONENT	DIMENSIONS	AREA	DUTY	LOAD PER ft²	LOAD	LOAD
BCB-24009	BC1-24009	BC-1	Тор	36° x 23.125°	5.78125 ft ²	3	90 lbs	520.3125 lbs	525 lbs
			Shelf	34.5" x 22.25"	5.33 ft²	3	50 lbs	266.54 lbs	270 lbs
			Drawer	N/A	N/A	3	N/A	N/A	50 lbs/ea
			Door	N/A	N/A	3	N/A	N/A	100 lbs/ea
	BC2-24009	BC-2	Тор	36" x 23.125"	5.78125 ft ²	3	265 lbs	1,532.03125 lbs	1,535 lbs

Copyrights of this document are owned by Architectural Woodwork Institute. Reproductions of any form are prohibited. Partial submission of report not valid for any type of compliance.

Page 3 of 43 PQTR# AWITR 002362024A 001 BC-1 Base Cabinet Assembled Unit Test

Testing was performed in accordance with the AWI Test Methodology BC-1 -Base Cabinet Assembled Unit Test.

DUTY 3

BC1-24009 Before Testing



OBSERVATIONS:

There was no loss of serviceability or structural integrity of the casework upon completion of the test.

NOTES:

- See specimen Load Summary for testing loads.
- Casework mounted according to enclosed installation guidelines.
- Top, Shelf, Door, and Drawer elements were evenly loaded with steel shot bags and steel bar weights to Duty Level 3 load.
- Load remained in place for 24 hours.
- One hour after unloading, the specimen was evaluated.

EQUIPMENT USED:

Digital Level, Tape Measure, Feeler Gauge, Depth Micrometer, Steel Shot Bags, Steel Bar Weights, Gantry Lift

BC1-24009 During Testing



BC1-24009 After Unloading



Load Summary

BATTERY	SPECIMEN	TEST	COMPONENT	DIMENSIONS	AREA	DUTY	LOAD PER ft²	LOAD CALCULATED	LOAD ACTUAL
BCB-24009	BC1-24009	BC-1	Тор	36" x 23.125"	5.78125 ft ²	3	90 lbs	520.3125 lbs	525 lbs
			Shelf	34.5" x 22.25"	5.33 ft²	3	50 lbs	266.54 lbs	270 lbs
			Drawer	N/A	N/A	3	N/A	N/A	50 lbs/ea.
			Door	N/A	N/A	3	N/A	N/A	100 lbs/ea

Copyrights of this document are owned by Architectural Woodwork Institute. Reproductions of any form are prohibited. Partial submission of report not valid for any type of compliance.

Page 4 of 43 PQTR# AWITR 002362024A 001

TEST SUMMARY



BC-2 Base Cabinet
Structural Integrity Test

BC-2 Base Cabinet

WW.

BC-2 Base Cabinet

BC-2 Base Cabinet

WW.

BC-2 Base Cabinet

BC-2 Base Cab

Testing was performed in accordance with the AWI Test Methodology BC-2
Base Cabinet Assembled Unit Test.



BC2-24009 Before Testing



OBSERVATIONS:

There was no loss of serviceability or structural integrity of the casework upon completion of the test.

NOTES:

- See specimen Load Summary for testing loads.
- Casework was not mounted to the test fixture per the test method.
- Top elements was evenly loaded with steel bar weights to Duty
 Level 3 load.
- Load remained in place for 24 hours.
- One hour after unloading, the specimen was evaluated.

EQUIPMENT USED:

Digital Level, Tape Measure, Feeler Gauge, Depth Micrometer, Steel Shot Bags, Steel Bar Weights, Gantry Lift

BC2-24009 During Testing



BC2-24009 After Unloading



Load Summary

BATTERY	SPECIMEN	TEST	COMPONENT	DIMENSIONS	AREA	DUTY	LOAD PER ft ²	LOAD CALCULATED	LOAD ACTUAL
BCB-24009	BC2-24009	BC-2	Тор	36" x 23.125"	5,78125 ft²	3	265 lbs	1,532.03125 lbs	1,535 lbs

Copyrights of this document are owned by Architectural Woodwork Institute, Reproductions of any form are prohibited. Partial submission of report not valid for any type of compliance.

Page 5 of 43 PQTR# AWITR 002362024A 001

Letter of Affirmation



Affidavit	
I, Chris Thompson	, declare that the articles listed herein were manufactured by
the company above and in accordance specifications.	e with the provided manufacturer/supplier's documented
C F	
Signature:	있는 등 등 하시면, 1915년 1917년 전경보다 [일반] 한경 마약을 제공을 하면 보다 하나 이 기가 하는데 보고 보고 보고 보고 보고 있다. (1915년 1917년 1917년 1917년 191

Test Process Verification

I, Hunter Morrison of Architectural Woodwork Institute, affirm the these tests were conducted in accordance with the described testing methodologies to Performance Duty Level 3 on 07/29/2024 .

Wholes Mens

Copyrights of this document are owned by Architectural Woodwork Institute. Reproductions of any form are prohibited. Partial submission of report not valid for any type of compliance.

Page 6 of 43 PQTR# AWITR 002362024A 001