PROTOCOL # 403 - R

CABINET/BOOKCASE (INDOOR & OUTDOOR)

Rating					
Performance Test	Test Method	Samples	Requirement	(Section or exec. Summary which failed items can be referenced)	
LABELING					
Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All Samples All Samples	Should be legibly marked with the following information: Distributor's name, trademark or other means of identification of the manufacturer or packer & address (City, State & Zip)	Provided Verified Not provided	
Instructional Literature/ Assembly Instruction (Needs to be provided – Lab HOLD if not provided)	Visual Check	All Salliples	Product identification Net quantity of the contents in terms of weight, measure or numerical count (Metric & US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer Country of origin (if imported) Shall provide safe use, or proper assembly or both, and care instruction. Shall be legible and easy to read.		
Maximum Weight Capacity	Visual Check	All Samples	Shall be displayed on the product conspicuously. Record data.		
Verify Label Claims	Visual Check	All Samples	The labeling must comply and valid with all claims.		
EPATSCA Title VI – Composite Wood Finished Good Labeling	40 CFR 770.45(c)/ 40 CFR 770.45(e)		Finished goods containing regulated composite wood shall comply with the labeling requirements found in 40 CFR 770.45(c). At a minimum, the label must be on the product OR the packaging. The label may be applied as a stamp, tag, or sticker The label shall include, at a minimum, in legible English text: 1. Fabricator's name 2. Date the finished good was produced (in month/year format) 3. A statement of compliance to denote that the finished good complies with TSCA Title VI Example: XXX Company MM/YYYY EPA TSCA Title VI compliant for formaldehyde Notes: • Client does not allow the use of the de minimis exception found in 40 CFR 770.45(e). All finished goods containing regulated composite wood shall include labeling pursuant to the above requirements of 40 CFR 770.45(c). • A statement of compliance that denotes the finished good complies with CARB's ATCM for formaldehyde will be accepted in lieu of a TSCA Title VI compliance statement until March 22, 2019. • Rating Schedule: On or after June 1, 2018: Compliant submission shall be rated as pass • Non-compliant submission shall be rated as fail		

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Title VI — Composite Wood - Raw Part Stack ###					
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such products made with no-added formaldehyde based (NAF-based) resins or ultra-low emitting formaldehyde (ULEF) resins, shall be				resins or ultra-low emitting formaldehyde (ULEF) resins, shall be	
labeled in accordance with the regulations and meet all applicable requirements.					
In lieu of testing, valid certificate or test report or certificate can be submitted if dated within one year.					
Substituted it dated within one year.				seeming a dated within one year.	

nport Permit (For Natural Materials	US Department of Agriculture Animal	All	Product shall not have prohibited materials present per US	
nly)	and Plant Health Inspection Service		Department of Agriculture, Animal and Plant Health Inspection	
Applicable	(APHIS), Plant Protection and Quarantine (PPQ)		Service (APHIS), Plant Protection and Quarantine (PPQ)	
	quaramente (r r q)		Documentation and/ or proper permit(s) for specific product shall be	
			supplied along with Testing Request form and samples.	
			Permit information may be found at:	
			https://www.aphis.usda.gov/wps/portal/aphis/home/	
			It is the vendor's responsibility for the compliance to relevant	
			requirements.	
dult Tracking Label:	Kohl's Requirement	All	Can be included on packaging when necessary:	
If space limitations exist, contact ohl's Quality Assurance & Product			Kohl's Assigned Factory Number	
tegrity teams to discuss minimum			Manufacture Date (Month/Year)	
equired information (quality. ssurance@kohls.com, product.			UPC#	
tegrity@kohls.com)				
);			
/arning Label or shelving – if applicable)	Visual Check		"Never allow children to stand, climb, or hang on shelves"	
/				
/arning Label	Visual Check		"Place heaviest items on the lowest shelf"	
or shelving – if applicable)				
abelling for collapsible shelves	Visual Check		"Fully engage locks before use. Shelf can collapse if lock not fully engaged"	
			Chigaged	
HYSICAL CHARACTERISTICS				
verall Dimension V x D x H)	Std. Measure	3 Samples	Max. +5% / -0% of claimed dimension. Record actual data if there is no claim.	Claim: Actual:
V X D X N)	(in/cm)		Record actual data if there is no claim.	Actual.
verall Weight	Std. Measure	3 Samples	Max. +5% / -0% of claimed weight.	Claim:
-	(lb/kg)		Record actual data if there is no claim.	Actual:
	L.		1	1
ONSTRUCTION QUALITIES ohl's Workmanship Review	Visual Check	All Samples	All components shall be provided as claimed and shall not be	
on a month nation provide	/Actual Use	All Gallipies	deformed or fractured.	
			All hardware shall be provided	
			- All Hardware Strail be provided	
			All welds shall be smoothly finished and free from pits and and there.	
			splatter	
			All components shall not contain any burrs or sharp edges (test)	
			by touch or sight)	

PERFORMANCE			

Loading Capacity	Std Measure	1 Sample	Shall not exceed max. 1/4" deformation when tested under the following criteria for 1 hour. Test load is dependent upon shelf width and depth or 120% the maximum weight capacity claim (loading shelves and hook simultaneously). < 8" depth (3 lbs. x shelf width) 8 - 16" depth (5 lbs. x shelf width) > 16" depth (7 lbs. x shelf width)	
Drawer / Door Cycle Test	Visual Check / Actual Use	1 Sample	No loss of serviceability after 100 repeated open/close cycles	
Drawer Operability	Visual Check / Actual Use	1 Sample	No loss of serviceability after subjecting to distributed loading of 10 lbs. / drawer, max. 10 lbs. pull force	
Hinge Operability (If Applicable)	Actual Use	1 Sample	No failure at 100 repeated open / close cycles	
Vertical Force Stability	ANSI SOHO 6.5 clause 4.7 (Mod.)	1 Sample	Shall not tip over when 50-lb. test load is suspended 5 In. in front of the outmost edge of the most forward protruding shelf or top. Modification= Scope expanded	
Horizontal Force Stability	ANSI SOHO 6.5 clause 4.8 (Mod.)	1 Sample	Shall not tip over as the result of 40-lb. horizontal force application or prior to reaching 10-degree tilt angle, whichever occurs first. Modification= Scope expanded	
Wall Mounting Hardware (If Applicable)	Kohl's TM 40	1 Sample	Shall withstand 120% of the claimed capacity or twice the product weight if no such claim for 1 hour when the sample is fixed/attached as intended on a drywall panel. The application of test load shall be evenly distributed to the cabinet/bookshelf.	
Flammability of Solid	16 CFR 1500.44	1 Sample	Burn rate<0.1"/sec	
*Cross-cut Adhesion (Plating/Surface Coating)	ASTM D 3359-09e2 (Mod.)	1 Sample	Cut 2 in. cross - hatch pattern on surface of plated and/or painted area. Plating and/or painted surface must remain affixed. Trace peeling or removal along incision or at their intersection is accepted.	
*Resistance To Corrosion	ASTM B117 G85	1 Sample	Modification = Scope expanded Shall withstand 24 hours in 1% salt spray (fog) with no major visual	
(Metal Components Only)	(Mod)	і запіріє	change or corrosion. Modification = % of salt spray	
*Effects Of Extreme Temperature/Humidity (Outdoor Use Only)	Kohl's TM 30	1 Sample	24 Hours @ 0° F (-18°C) and 24 Hours @ 95% RH/120° F (49°C) - no failure Size limitation to be determined.	
*Colorfastness To Light (Outdoor Use Only)	AATCC 16.3	1 Sample	Min. Class 3.5 min. Report actual data at 20/40/60 hrs.	*Colorfastness To Light (Outdoor Use Only)
(Cuttuon Use Only)			Note: Rating by Grey Scale may not be suitable for certain furniture design e.g. natural stone. Under this circumstance, visual comparison of any color change against the control is acceptable.	(Cuttuori Use Oriny)
*Wood Moisture Content	Std. Measure	1 Sample	Should be between 6-10% for solid wood only	
#Claim Verification (If Claimed)	Visual Check / Actual Use	1 Sample	All designs and features must conform to actual claim	Claim:
*Tech Pack Verification (Needs to be provided – Lab HOLD if not provided)	Visual Check / Std. Measurement	1 Sample	Verify all claims mentioned in Tech Pack File	Provided Verified
Tipover Restraints for Clothing Storage Unit (Expanded Scope: similar items to verified by tech spec or BOM) - State of New York ((f applicable)	US State Law, State of New York, Harper's Law (Assembly Bill A4421B) / ASTM F2057 Section 4.4 & 4.5 / ASTM F3096	All Samples	Free-standing clothing storage furniture (27 inches and above in height) shall meet the tipover restraints requirements prescribed in ASTM F2057.	
Warning Label Clothing Storage Unit (Expanded Scope: similar items to verified by tech spec or BOM) – State of New York (If applicable)	US State Law, State of New York, Harper's Law (Assembly Bill A4421B) / ASTM F2057 Section 8	All Samples	Free-standing clothing storage furniture (27 inches and above in height) shall have a permanent warning label, as specified in Section 8 of the Standard, attached to the unit in a conspicuous location when in use.	
Clothing Storage Units (Expanded Scope: similar items to verified by tech spec or BOM)— Labeling (if applicable)	ASTM F2057	All Samples	Shall comply with labeling requirements as specified in the standard.	
Clothing Storage Units (Expanded Scope: similar items to verified by tech spec or BOM) - Physical & Mechanical (if applicable)	ASTM F2057	All Samples	Shall comply with physical and mechanical requirements (stability) as specified in the standards.	
ANALYTICAL				
*Lead In Scrapable Surface Coating	CPSC-CH-E1003-09	1 Sample	≤ 90 ppm (0.009% by weight) (CPSA – 16 CFR 1303)	
PFAS Supplemental Protocol	Refer to Protocol 1600	All Samples	All samples shall be reviewed against the requirements of PFAS Supplement Protocol to determine if additional testing or labeling is required	

Protocol Version	Description of Change	Revised by / Date	Approved by / Date
403 – 0	Initial Release	CY Chan Feb 10, 2004	Roger Mayerson Mar 08, 2004
403 – 1	Change Test Protocol Title to Include Bookcase.	Simon Leung Oct 19, 2009	Ro Jain Oct 31, 2009
	Added 19 CFR 134	000 19, 2009	00:01, 2000
	Added Instruction Manual/Assembly Instruction.		
	Added Maximum Weight Capacity Labeling.		
	Added Composite Wood Products Labeling.		
	Added Overall Dimension & Weight Measurement.		
	Add Bookcase Stability Test.		
	Added Flammability of Solid Test.		
	Added Cross-cut Adhesion Test.		
	Added Colorfastness to Light Test.		
	Modified Effects of Extreme Temperature Test.		
	Resistance to Corrosion Test (Metal Components Only) Applicable to both Indoor and Outdoor Uses.		
	Changed Wood Moisture Content to 6-10%.		
	Changed Lead in Surface Coating Limit to 90 ppm.		
	Price Adjustment.		
403-A	Changed protocol number from 403-1 to 403-A, price adjustment	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
403-B	Changed the Test Method for Lead in Scrapable Surface Coating from ASTM to CPSC.	Simon Leung September 15, 2011	Ro Jain September 15, 2011
403-C	Updated sample size	John Wong Mar 26, 2013	Ro Jain April 15, 2013
403-D	Revised the applicable material of Wood Moisture Content Revised the pricing of Effects of Extreme Temperature / Humidity	Bill Wang Apr 15, 2013	Ro Jain May 27, 2013
403-E	Added Tech Pack Verification	Jeetendra Shelatkar Feb 4, 2014	Ro Jain Mar 7, 2014
403-F	Updated lead and resistance to corrosion test pricing	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug. 4, 2014
403-G	Change SGS In-house methods to international test methods	Birkoff Chen Sep 4, 2014	Jeetendra Shelatkar Oct 27, 2014
403-H	Updated AI & Tech pack testing results/rating	Elizabeth Armstrong March 14, 2016	Jeetendra Shelatkar March 14, 2016

403-I	Updated test methods for CF to light and cross cut adhesion	Elizabeth Armstrong May 11, 2016	Elizabeth Armstrong May 11, 2016
403-J	Added Labeling – US EPA Formaldehyde Emission	Cindy Ng May 4, 2017	Elizabeth Armstrong May 8, 2017
403-K	Updated loading capacity requirements to include "loading shelves and hook simultaneously", removed "bookcase" from stability testing and made applicable for all items	Elizabeth Armstrong December 6, 2017	Elizabeth Armstrong December 6, 2017
403-L	Added test line for Chests, Door Chests, and Dressers - product over 30 in. (762 mm) in height	Elizabeth Armstrong March 5, 2018	Elizabeth Armstrong March 5, 2018
403-M	Updated CARB & EPA Labeling	Elizabeth Armstrong June 22, 2018	Elizabeth Armstrong June 22, 2018
403-N	Added import permit req & adult tracking label	Elizabeth Armstrong April 22, 2019	Elizabeth Armstrong April 22, 2019
403-O	Adding Warning Labels, Labeling for collapsible shelves	Charlene Swanson October 2019	Charlene Swanson October 2019
403-P	Added EPA certification requirements to the protocol and removed "not provided" from tech pack review, removed the "data only" from the adult tracking label	Elizabeth Armstrong June 4, 2020	Elizabeth Armstrong June 4, 2020
403-Q	Updated tip kip requirements	Elizabeth Armstrong Aug 13, 2020	Elizabeth Armstrong Aug 13, 2020
403-R	Added PFAS Test Line	Kevin Makocy March 18, 2022	Kevin Makocy March 18, 2022