PROTOCOL # 405-1

CHILDREN'S CHAIR & TABLE & DESK (INDOOR & OUTDOOR)

Performance Test	Test Method	Samples	Requirement	Rating (Section or exec. Summary which failed items can be referenced)
Initial Package				
Label Verification				
Label Review	Care Labeling 16 CFR 423 16 CFR 300/ 19 CFR 134 Textile Fiber Products Identification Act 16 CFR 303 Wool Products Labeling Act	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) -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)	
Uniform Law Labels for Bedding & Upholstered Furniture	IABFLO	All Samples	All filling materials must have a securely affixed label which contains the following information: The statement "UNDER PENALTY OF LAW THIS TAG NOT TO BE REMOVED EXCEPT BY THE CONSUMER"; A description of the filling contents preceded by the statement "ALL NEW MATERIALS consisting of "; The assigned state registration number*, for example in Pennsylvania, the number is preceded by the abbreviation REG. NO. PA (the # symbol is not accepted); and The statement: Certification is made by the manufacturer that the materials in this article are described in accordance with the law. For animal or fowl or any other material requiring sterilization, the tag must also bear the following information: A permit number of the sterilizer, only if sterilized new material is used; and The statement "CONTENTS STERILIZED" (this is not acceptable in California). The statement of MADE BY (for manufacturer) or MADE FOR (for importer or distributor) with full street address The statement of "Finished Size", "Net Weight of Filling Material"," Cover:" (client's requirement) The statement of country of origin. e.g. MADE IN CHINA The tag must be constructed of white linen cloth or spun bonded olefin having a minimum size of 2in x 3in, (the length starts at the beginning of the word "UNDER" and ends at the country of origin on the bottom of the law label), and must be printed in black ink with a minimum type height of 1/8 inch (3.2 millimeters). Some states may require additional information such as DATE OF DELIVERY.	
CA Technical Bulletin 117 Labeling (if applicable)	Visual Check	All Samples	(a) Upholstered articles conforming to Section 1374 (a) shall have a label attached to the surface area of the article, in plain view, stating the following: Implement on and after January 1, 2020 NOTICE THIS ARTICLE MEETS THE FLAMMABILITY REQUIREMENTS OF CALIFORNIA BUREAU OF HOUSEHOLD GOODS AND SERVICES TECHNICAL BULLETIN 117-2013. CARE SHOULD BE EXERCISED NEAR OPEN FLAME OR WITH BURNING CIGARETTES. The following "flame retardant chemical statement" should be added on the bottom of CA Technical Bulletin 117 label. "The upholstery materials in this product: ___ contain added flame retardant chemicals ____ contain NO added flame retardant chemicals The State of California has updated the flammability standard and determined that the fire safety requirements for this product can be met without adding flame retardant chemicals. The state has identified many flame retardant chemicals as being known to, or strongly suspected of, adversely impacting human health or development." A manufacturer of covered products shall indicate the absence or presence of added flame retardant chemicals by placing an "X" in one of the appropriate blanks. Minimum size of the label shall be 2x3 inches and the minimum size of the type shall be one-eighth inch in height. All type shall be in capital letters. But the "flame retardants chemical statement" need not be in all capital letters.	
Instructional Literature (Assembly Instruction) (Needs to be provided – Lab HOLD if not provided)	Visual Check / Actual Use	All Samples	Shall provide safe use, or proper assembly or both, and care instruction. Shall be legible and easy to read.	Provided: Verified: Not Provided:
Maximum Weight Capacity	Visual Check	All Samples	Shall be displayed on the product conspicuously. Record data.	
Age Grading	ASTM F 963 5.2	All Samples	Shall be properly labeled	

Small Parts Warning	ASTM F 963 5.11	All Samples	WARNING: CHOKING HAZARD – Small parts. Not for children under 3 yrs.	
CPSIA Tracking Label	Visual Check	All Samples	Kohls Tracking label Requirements – Includes “Kohl’s”, the product style number or name, the manufacturer’s factory number and the month and year the product was manufactured. Shall be permanently and distinguishably marked on the product.	
Adult Assembly Labeling (If Applicable)	ASTM F 963 5.8 & 6.4	All Samples	Shall be properly labeled.	
Fiber Content & Care Label (Upholstery Only)	FTC	All Samples	The labeling must include and comply with the claim.	
Verify Label Claims	Visual Check	All Samples	The labeling must comply and valid with all claims.	
Children’s chair and stools – Labeling (Standard does not apply to products used in a commercial setting or to products that do not have a rigid frame such as bean bag chairs or foam chairs)	16 CFR 1232 / ASTM F2613-21	All Samples	[Children's chair or stool intended to be used by a single child who can get in and get out of the product unassisted and with a seat height 15 in. or less, with or without a rocking base] Shall comply with labeling requirements as specified in the standard	
EPA TSCA Title VI – Composite Wood Finished Good Labeling	40 CFR 770.45(c)	All Samples	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	
CARB ATCM for Formaldehyde – Composite Wood Finished Good Labeling	Title 17, California Code of Regulations Section 93120.7(d)	All Samples	Finished goods containing regulated composite wood shall comply with the labeling requirements for fabricators found in §93120.7(d). A finished good containing regulated composite wood requires the following: At a minimum, the label must be on the product OR the packaging The label shall be applied as a stamp, tag, sticker, or bar code The label shall include, at a minimum: 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 the ATCM Example: XXX Company MM/YYYY California 93120 phase 2 compliant for formaldehyde **Notes:** **If a finished good is labeled with the EPA compliance statement, a separate statement of compliance to the CARB ATCM is not required.** **It is not required for the label to state the level of emissions (Phase 2, NAF, ULEF).** **Labels for finished goods should not include the number of the TPC associated with the composite wood products contained in the finished good.**	
Care label & Fiber Content (Upholstery Only) (If Applicable)	FTC	All Samples	The labeling must include and comply with the claim.x	
Verify Label Claims	Visual Check	All Samples	The labeling must comply and valid with all claims.	

*FSC Logo Verification (if Claimed)	Visual Check	All Samples	Verify FSC claim from FSC Certificate Database, the certificate shall be valid  Take photo and include within the report if present	
Import Permit (For Natural Materials Only) If Applicable	US Department of Agriculture Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ	All Samples	Product shall not have prohibited materials present per US Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ) 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.	
Adult Tracking Label: **If space limitations exist, contact Kohl's Quality Assurance & Product Integrity teams to discuss minimum required information (MR.PI.QA@kohls.com)	Kohl's Requirement	All Samples	**Should be rated as pass/fail** Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #	
EPA TSCA Title VI – Composite Wood - Sample Declaration Form and Mill Certificate (if applicable)	40 CFR 770	All Samples	If wood of any type is present in the sample, submitter shall provide a completed and signed Sample Declaration Form. Sections A, B, and E of the Sample Declaration Form must always be completed. • If regulated composite wood is not present in the sample, result is N/A. • If regulated composite wood is present in the sample: - Submitter shall provide a copy of the certificate issued by the Third Party Certifier (TPC) for the mill(s) from which the raw panels were purchased - All information on the certificate shall be consistent with the Sample Declaration Form - Section D of the Sample Declaration Form must also be completed Notes: •Include a copy of the Sample Declaration Form in the report • Regulated composite wood includes: - Hardwood plywood (HWPW) - Medium-density fiberboard (MDF) - Thin medium-density fiberboard (Thin MDF) - Particleboard (PB) • Mill certificate must indicate compliance with TSCA Title VI. It is no longer acceptable to have the certificate indicate compliance with CARB's ATCM for formaldehyde in lieu of compliance with TSCA Title VI.	
EPA TSCA Title VI – Composite Wood - Raw Panel Labeling (if applicable)	40 CFR 770.45(a)	All Samples	• Panels or bundles of panels must be labeled with the following: - The panel producer's name - The lot number - The number of the EPA TSCA Title VI Third Party Certifier (TPC) - A statement of compliance to denote that the panels comply with TSCA Title VI Notes: • A panel producer number may be used instead of a name to protect identity • Raw panels are regulated composite wood products that have not been used to create a finished good • The compliance statement must denote compliance with the TSCA Title VI. It is no longer acceptable to have the panel labeled as compliant with CARB's ATCM for formaldehyde in lieu of TSCA Title VI compliance statement.	
Formaldehyde Emission of Composite Wood Product - State of California (if applicable)	Airborne Toxic Control Measure (ATCM), California Code of Regulations, Title 17, § 93120	All Samples	Composite wood products include finished goods composed of or containing hardwood plywood (HWPW) made with either a combination core (CC) or a veneer core (VC), particleboard (PB), and medium-density fiberboard (MDF)), or finished goods composed of such products made with no-added formaldehyde based (NAF-based) resins or ultra-low emitting formaldehyde (ULEF) resins, shall not release formaldehyde exceeding the regulatory limits. In lieu of testing, valid certificate or test report or certificate can be submitted if dated within one year.	

Labeling of Composite Wood Product - Formaldehyde Emission - State of California (if applicable)	Airborne Toxic Control Measure (ATCM), California Code of Regulations, Title 17, § 93120	All Samples	Composite wood products include finished goods composed of or containing hardwood plywood (HWPW) made with either a combination core (CC) or a veneer core (VC), particleboard (PB), and medium-density fiberboard (MDF)), or finished goods composed of such products made with no-added formaldehyde based (NAF-based) 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.	
Labeling for Indoor Upholstered Furniture	16 CFR 1640	All Samples	Upholstered seating furniture for indoor use shall be included the statement “Complies with U.S. CPSC requirements for upholstered furniture flammability” on a permanent label located on the product. For submissions rec'd before June 25, 2022 non compliance with this requirment will be rated as DATA For submissions rec'd on or after June 25 2022, non compliance will be rated as a FAIL	
Flammability for Indoor Upholstered Furniture	16 CFR 1640	All Samples	Upholstered seating furniture for indoor use shall comply with the flammability test specified by California Technical Bulletin 117-2013. For submissions rec'd before June 25, 2021 non compliance with this requirment will be rated as DATA For submissions rec'd on or after June 25 2021, non compliance will be rated as a FAIL	
Registration for durable nursery product (if applicable)	CPSIA Sec. 104(d) / 16 CFR 1130	All Sample	Consumer registration requirement: Required to provide consumers with a postage-paid consumer registration form with each such product and to permanently place the manufacturer name and contact information, model name and number, and the date of manufacture on each durable infant or toddler product. Requirements for registration form: The registration form shall (A) include spaces for a consumer to provide the consumer's name, address, telephone number, and e-mail address; (B) include space sufficiently large to permit easy, legible recording of all desired information; (C) be attached to the surface of each durable infant or toddler product so that, as a practical matter, the consumer must notice and handle the form after purchasing the product; (D) include the manufacturer's name, model name and number for the product, and the date of manufacture; (E) include a message explaining the purpose of the registration and designed to encourage consumers to complete the registration; (F) include an option for consumers to register through the Internet; and (G) include a statement that information provided by the consumer shall not be used for any purpose other than to facilitate a recall of or safety alert regarding that product. "Durable infant or toddler product" means full-size cribs and nonfull-size cribs, toddler beds, high chairs, booster chairs, hook-on chairs, bath seats, gates and other enclosures for confining a child, play yards, stationary activity centers, infant carriers, strollers, walkers, swings, bassinets and cradles, children's folding chairs, changing tables, bouncers, infant bath tubs, bed rails and infant sling.	
Labeling of Composite Wood Product - Formaldehyde Emission - State of California (if applicable)	Airborne Toxic Control Measure (ATCM), California Code of Regulations, Title 17, § 93120	ALL	Composite wood products include finished goods composed of or containing hardwood plywood (HWPW) made with either a combination core (CC) or a veneer core (VC), particleboard (PB), and medium-density fiberboard (MDF)), or finished goods composed of such products made with no-added formaldehyde based (NAF-based) 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.	
CONSTRUCTION QUALITIES				
Kohl’s Workmanship Review	Visual Check / Actual Use	All Samples	All components shall be provided as claimed and shall not be deformed or fractured. All hardware shall be provided All welds shall be smoothly finished and free from pits and splatter All components shall not contain any burrs or sharp edges Product shall not contain any loose components or unsecured fastening where rigidity is required Filling material shall be free of objectionable matter and contaminants.	

Small Parts, Sharp Edges, Sharp Points	ASTM F 963 4.6, 4.7, 4.9 6.4 & 8.5	All Samples	No safety hazard at as received condition. Products intended to be assembled by an adult shall carry appropriate safety labeling.	
PHYSICAL CHARACTERISTICS				
Overall Dimension (W X DX H Or Diameter)	Std. Measure (in/cm)	3 Samples	Max. +5% / -0% of claimed dimension. Record actual data if there is no claim.	Claim: Actual:
Overall Weight	Std. Measure (lb/kg)	3 Samples	Max. +5% / -0% of claimed weight. Record actual data if there is no claim.	Claim: Actual:
***UPHOLSTERY (If Applicable)**				
Physical Characteristics				
Fiber Content (Shell Fabric & Filling Materials)	AATCC 20/20A	1 Sample	Single fiber only: no tolerance 2 or more fibers blend: ± 3% max. Functional fiber i.e. Spandex: ± 2% max.	
Foam Padding (Filling Material)	ASTM E 1252	1 Sample	Material identification by FTIR method.	
Fabric Weight (Oz. / Sq. Yd.)	ASTM D3776	1 Sample	As approved / as claimed / products specifications/as measured (+5% / -0%)	
Thread Count (Ends X Picks)	ASTM D3775	1 Sample	As approved / as claimed / products specifications/as measured (+5% / -0%)	
Defects	Visual Check	1 Sample	No major defects / two minor defects (max.)	
Evenness Of Color	Visual Check	1 Sample	Shall provide uniform color	
Weight of Filling Material	Std. Measure	1 Sample	± 5% (oz, lb)	Claim: Actual:
Foam Density	Std. Measure	1 Sample	± 5% (lb/ in3)	Claim: Actual:
PERFORMANCE				
FABRIC STRENGTH				
Length	ASTM D 5034	1 Sample	Min. 50 lbs. / In.	
Width	ASTM D 5034	1 Sample	Min. 50 lbs. / In.	
Seam Strength	ASTM D1683	1 Sample	Min. 30 lbs. / In.	
Seam Slippage	ASTM D1683	1 Sample	Min. 25lbs @ ¼ in slippage	
WATER REPELLENCY CHARACTERISTICS				
Surface Water Repelling	AATCC 22	1 Sample	Min. 90 ratings	
Water Resistance (Outdoor Use & If Claimed Only)	AATCC 35	1 Sample	Max. 1 gm water penetration at 2 ft for 2 min.	
DIMENSIONAL CHANGE				
Dimensional Change to Home Laundering, Dry- Cleaning or Spot Clean (If Applicable)	AATCC 150 (3 Washes)/ AATCC 158 (1 Cycle) Tide® Powder Detergent	1 Sample	Wovens: ± 4% max. Knits: ± 8% max. Flannel: ± 6% max. (Length x Width) Dry Cleaning: ± 4% max.	
Appearance Retention (If Applicable)	AATCC/ASTM TS-008 (Modified) Tide® Powder Detergent	1 Sample	Must meet all applicable Kohl's Appearance Evaluation Requirements.	
ZIPPER:				
Operability (Open/Closed)	ASTM D2062	1 Sample	Remains functional after 15 cycles	
Cross Widthwise Strength	ASTM D2061	1 Sample	Min. 50 lbs.	
Scoop Pull	ASTM D2061	1 Sample	Min. 10 lbs.	
Slider Torque	ASTM D2061	1 Sample	Min. 4 in-lbf.	
Top stop	ASTM D2061	1 Sample	Min. 20 lbs.	
Bottom Stop	ASTM D2061	1 Sample	Min. 20 lbs.	
Slider Pull	ASTM D2061	1 Sample	Min. 15 lbs.	
COLORFASTNESS:				
Dry Crocking	AATCC 8/116	1 Sample	Min. Class 4.0	
Wet Crocking	AATCC 8/116	1 Sample	Min. Class 3.0	
Chlorine Bleach And Non-Chlorine Bleach (If Claimed)	AATCC/ASTM TS-001	1 Sample	Min. Class 4.0 (Shade change)	
*Light Fading (For Outdoor Use Only)	AATCC 16E	1 Sample	Min Class 3.5. Report actual data at 20/40/60 hrs.	
PERFORMANCE – CHAIR AND STOOL INTENDED TO BE USED BY A SINGLE CHILD AND WITH A SEAT HEIGHT 15IN. OR LESS.				

Children's chair and stools - Physical and mechanical (Standard does not apply to products used in a commercial setting or to products that do not have a rigid frame such as bean bag chairs or foam chairs)	16 CFR 1232 / ASTM F2613-21	1 Sample	[Children's chair or stool intended to be used by a single child who can get in and get out of the product unassisted and with a seat height 15 in. or less, with or without a rocking base] Shall comply with physical and mechanical requirements as specified in the standard.	
PERFORMANCE – OTHER CHAIRS				
Front Seating Capability	ANSI/BIFMA X5.1 Section 11.4 (Mod.)	1 Sample	No failure under 135 lbs. loading at edge (6 In.) Remark: Multi-seating chair e.g. picnic bench, shall have the front seating capacity of 135 lbs. applied to each seat simultaneously. Contact Kohl's for instruction, if necessary.	
Back Strength	ANSI/BIFMA X5.1-17 Section 5&6 (Mod.)	1 Sample	Shall be no loss of serviceability to the chair when 60 lbs. (non-tilt) and 200 lbs. (tilt) is applied to 90° from back at 16 In. above the seat for 1 min. Modification= Loading parameter changed	
Base Strength	ANSI/BIFMA X5.1 Section 7 (Mod.)	1 Sample	No structural failure under 225 lbs. compression for 1 min.	
Seat Dynamic Impact	ANSI/BIFMA X5.1-17 Sec. 7 (Mod.)	1 Sample	Shall be no loss of serviceability to the chair when a 100 lbs. weight free-falls from 6 In. to the center of the seat for 1 time (height non-adjustable). For the with seat height adjustment features, test it separately in the highest and lowest position. Modification= Loading parameter changed	
Front Stability	ANSI/BIFMA X5.1-17 Sec. 11 (Mod.)	1 Sample	Shall not tip over when Apply a vertical load of 600 N (135 lbf.), through a 200 mm (7.87 in.) diameter disk, the center of which is 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the seat, then apply a horizontal force of 20 N (4.5 lbf.) at the same level of the plane of the top of the seat. The force shall be coincident with the side-to-side centerline of the seat.	
Stability Test - Rear Stability for Type III Chairs	ANSI/BIFMA X5.1-17 Sec. 11 (Mod.)	1 Sample	Load the chair with 6 disks (22lb each, total 132lb), apply a horizontal force to the highest disk, The location of the force application is 6 mm (0.25 in.) from the top of the disk. For chairs with seat height less than 710 mm (28.0 in.), calculate the force as follows: ● F = 0.1964 (1195 – H) Newton. H is the seat height in mm. [F = 1.1 (47 – H) pounds force.]. H is the seat height in inches. For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N (20.9 lbf.) shall be applied. The chair shall not tip over.	Applied horizontal force :
Stability Test - Rear Stability for Type I and II Chairs	ANSI/BIFMA X5.1-17 Sec. 11 (Mod.)	1 Sample	Load the chair with 13 disks (22lb each, total 286lb). Place the first disk on the seat so it touches the support fixture. The chair shall not tip over.	
Arm Strength Test (Vertical)	ANSI/BIFMA X5.1-17 Sec. 12 (Mod.)	1 Sample	Shall be no loss of serviceability when the vertical load of 90 lbs is uniformly applied through a 5 In. area at the apparent weakest point for 1 min. Modification= Loading parameter changed	
Arm Strength Test (Horizontal)	ANSI/BIFMA X5.1-17 Sec. 13 (Mod.)	1 Sample	Shall be no loss of serviceability when the horizontal force of 45 lbs is applied to arm rest at the most forward point of the arm rest area for 1 min. Modification= Loading parameter changed	
Leg Strength (Front / Side)	ANSI/BIFMA X5.1-17 Sec. 17 (Mod.)	1 Sample	Front Load Test: The load of 45 lbs is applied once to each front leg individually for one (1) minute shall cause no loss of serviceability. Modification= Loading parameter changed	
		1 Sample	Side Load Test: The load of 45 lbs is applied once to a front and rear leg individually for one (1) minute shall cause no loss of serviceability.	
Caster Performance (If Applicable)	Std. Measure	1 Sample	Max 5 lbs. pulling force to move the chair loaded with 100 lbs. on the seat.	
Remark: Multi-seating chair e.g. picnic bench, shall have the front seating capacity of 135 lbs. applied to each seat simultaneously. Contact Kohl's for instruction, if necessary				
PERFORMANCE TABLE				
Distributed Load Capacity Test: Table Top Area Dinette/ Card Table Casual Table End Table	ANSI/SOHO S6.5 Section 5.2 (Mod.)	1 Sample	Max. 1/4 In. deformation and/or no loss of serviceability when the test load is applied on the surface. The test load to be applied shall follow table below or 120% the maximum weight capacity claim Modification=Acceptance criteria added ≥4 sq. ft. | 30lbs / sq. ft, 25lbs / sq. ft. / 10lbs sq. ft. <4 sq. ft. | 20lbs / sq. ft, 15lbs / sq. ft. / 10lbs sq. ft.	

Concentrated Load Capacity Test: Dinette/ Card Table Casual Table End Table	ANSI/SOHO S6.5 Section 5.3 (Mod.)	1 Sample	Max. 1/2 In. deformation and/or no loss of serviceability when the concentrated load are applied through a 305 mm (12 in.) diameter area 25 mm (1 in.) from the unit's edge at its apparent weakest point. The test load to be applied shall follow table below or 120% the maximum weight capacity claim. Use 6 In. disc for table with an area <2 sq. ft. Modification=Acceptance criteria added 100lbs 75lbs 40lbs	
Leg Strength (Side / Front)	ANSI/SOHO S6.5 Section 7 (Mod.)	1 Sample	No loss of serviceability shall occur as a result of the application of the loads of 50 lbs. Applied vertically to the leg at 1 In. from the end of the leg. Force is applied in four directions (forward, rearward, side to side). Modification= Load applied changed	
Leg Strength (Folding Table) (Side / Front)	ANSI/SOHO S6.5 Section 7 (Mod.)	1 Sample	No loss of serviceability shall occur as a result of the application of the loads of 30 lbs. Applied vertically to the leg at 1 In. form the end of the leg. Force is applied in four directions (forward, rearward, side to side). Modification= Load applied changed	
Stability: Dinette/Card Table Casual table End Table	ANSI/SOHO S6.5 Section 4.2 (Mod.)	1 Sample	Shall not tip over when the test load is applied 1 In. from the edge on 12 In. disc. Use 6 In. disc for table with an area <2 sq. ft. Modification= Load applied changed > 4sq. ft | 75lbs, 50lbs, 40lbs < 4sq. ft | 65lbs, 40lbs, 30lbs	
Vertical Impact Test	BIFMA X5.9 Section 7(mod.)	1 Sample	No structural failure, max 1/4 In. deformation - when a 30 lbs. weight free-falls from 6 In. to the center of the table (3 drops). Modification= Acceptance criteria	
Folding mechanisms and hinges line clearance	ASTM F963 Sec 4.13 (Mod)	1 Sample	Shall meet the requirements to eliminate the possible crushing, laceration or pinching hazards that might occur in folding mechanisms and hinges Modification: Expanded scope to children products.	
Drawer/Door Cycle Test (If Applicable)	Visual Check / Actual Use	1 Sample	No loss of serviceability after 100 repeated open/close cycles.	
Drawer Operability (If Applicable)	Visual Check / Actual Use	1 Sample	No loss of serviceability after subjecting to distributed loading of 10 lbs. / drawer, max. 10 lbs. pull force.	
PERFORMANCE TABLE & CHAIR				
Flammability	ASTM F 963 4.2	1 Sample	Burn rate <0.1"/sec (16 CFR 1500.44)	
Children's chair and stools – flammability (Standard does not apply to products used in a commercial setting or to products that do not have a rigid frame such as bean bag chairs or foam chairs)	16 CFR 1232 / ASTM F2613-21 Section 5.5	1 Sample	Shall comply with flammability requirement as specified in standard.	
Normal Use Testing	ASTM F 963 8.5	1 Sample	No safety hazards.	
Abuse Testing	ASTM F 963 8.6	1 Sample	No safety hazards.	
Torque Test For Removal Of Components	ASTM F 963 8.8	1 Sample	16 CFR 1500. No safety hazards.	
Tension Test For Removal Of Components	ASTM F 963 8.9	1 Sample	16 CFR 1500. No safety hazards.	
Compression Test	ASTM F 963 8.9	1 Sample	16 CFR 1500. No safety hazards.	
Flexure Test	ASTM F 963 8.9	1 Sample	16 CFR 1500. No safety hazards.	
Projection	ASTM F 963 4.9	1 Sample	Shall be free from hazardous projections.	
Drop Impact Test	ANSI/SOHO S6.5 Section 10 (Mod.)	1 Sample	Must be serviceable without any structural damage, malfunction or safety hazards when one end of table/chair is dropped from a height of 10 In. for 4 times. Modification= Loading parameter changed	

Assessment Of Potential Finger Entrapment And Squeeze And Shear Point	ASTM F 2613-19 Section 5.7 Section 5.8 Section 5.9	1 Sample	Scissoring, shearing, or pinching that may cause injury shall not be permissible when the edges of the rigid parts admit a probe that is greater than 0.210 in. (5.30 mm) and less than 0.375 in. (9.50 mm) diameter at any accessible point. Products shall have a locking device or other means to prevent unexpected or sudden movement or collapse of the product. The accessible gap at the hinge line admit a 3⁄16-in. (5-mm) diameter rod, it will also admit a 1⁄2-in. (13-mm) diameter rod at all positions of the hinge. If an accessible, circular hole in any rigid material less than 0.062 in. (1.58 mm) in thickness can admit a 1⁄4-in.(6-mm) diameter rod to a depth of 3⁄8 in. (10 mm) or greater, it shall also admit a 1⁄2-in. (13-mm) diameter rod.	
Durability Of Folding Mechanism (If Applicable)	Visual Check / Actual Use	1 Sample	Shall be opened and closed as intended for 100 cycles with no failure.	
Locking Mechanism Or Other Means (If Applicable)	ASTM F 963 8.25	1 Sample	No safety hazards.	
Stain Resistance	Visual Check / Actual Use	1 Sample	No objectionable stain by most household stains after 2 hours placement: wine, ketchup, mustard, grape juice and cooking oil.	
Resistance To Hot Water	Fed. Spec. AA-11- 001895B	All Samples	Pour 25 ml. of boiling water and allow it to cool down. Dried surface shall have no graying or spotting.	
*Cross-cut Adhesion (Plating & Surface Coating)	ASTM D 3359 (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. Modification= Scope expanded	
WOOD MOISTURE CONTENT				
Table Top/Drawer	Std. Measure	1 Sample	Should be between 6-10% for wood based material only	
Chair Back/Base/	Std. Measure	1 Sample	Should be between 6-10% for wood based material only	
Leg/Base (Table/Chair)	Std. Measure	1 Sample	Should be between 6-10% for wood based material only	
Protective Caps On Legs	Visual Check / Actual Use	All Samples	Shall be non - marring.	
*Resistance To Corrosion (Metal Components Only)	ASTM B117 G85 (Mod.)	1 Sample	Shall withstand 24 hours in 1% salt spray (Fog) with no major visual 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 16E	1 Sample	Class 3.5.min. Report actual data at 20/40/60 hrs. 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.	
#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 (if 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.	
CALIFORNIA TECHNICAL BULLETIN 117				
***Cover Fabric**				
Section 1	C.T.B. 117- 2013	1 Sample	(See attached test results / requirements)	
*** Barrier Materials:**				
Section 2	C.T.B. 117- 2013	1 Sample	(See attached test results / requirements)	

*** Resilient Filling Material**				
Section 3	C.T.B. 117 - 2013	1 Sample	(See attached test results / requirements)	
*** Decking Material**				
Section 4	C.T.B. 117 - 2013	1 Sample	(See attached test results / requirements)	
ANALYTICAL				
*Lead In Scrapable Surface Coating	CPSC-CH- E1003-09	1 Sample	≤90 ppm (0.009% by weight). (CPSIA – 16 CFR 1303)	
*Lead n Substrate Material (Accessible Component)	CPSC-CH- E1001-08 and/or CPSC-CH- E1002-08	1 Sample	≤100 ppm (0.010% by weight). (CPSA)	
*Formaldehyde (Applicable To Upholstery Shell Fabric Only)	prEN ISO TS 17226 ISO 14184-1	1 Sample	<75 ppm	
Lead, Cadmium and Phthalate Applicable to children product including - Child car seats - Clothing - Cosmetics for children under the age of 12 - Jewelry for children under the age of 12 - Products to help a child with sucking or teething, to facilitate sleep, relaxation, or the feeding of a child	Lead and Cadmium EPA SW 846 Method # 3050B/3051 (Mod.) / CPSC-CH-E1003-09.1/ CPSC-CH-E1002-08.1 / CPSC-CH-E1001-08.1 Phthalate CPSC-CH-C1001-09.3	1 Sample	Washington Children's Safe Products Act ≤ 90 ppm (lead) ≤ 40 ppm (Cadmium) ≤ 0.1% (BBP, DBP, DEHP, DIDP, DINP or DNOP) (individually or in combination) Note: Actual test would be performed on below suggested accessible materials. Substances Suggested materials Lead Follow CPSC lead Cadmium Follow CPSC lead Phthalates Coating and Plasticized materials The Washington standard cannot be enforced for products to which a federal standard applies.	
Phthalates content	Consumer Product Safety Improvement Act of 2008 / 16 CFR 1307 / CPSC-CH-C1001-09.4 (Mod)	All Samples	Children's toys and childcare articles, before and after use and abuse testing, shall not contain concentrations of more than 0.1% BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP or DCHP individually. Component testing is allowed. Compositing up to 3 like materials is allowed. Product manufactured and imported as of April 25, 2018 must comply.	
* CA Prop 65	Refer to Protocol 1300	All Samples	All samples shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	
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	
ADDITIONAL PERFORMANCE TESTS FOR CHAIRS WITH SPECIFIC FEATURES				
*Swivel Durability	ANSI/BIFMA X5.1-17 Sec. 8 (Mod.)	1 Sample	No structural breakage of loss of serviceability in 120,000 cycles of rotation (360°) under a 175lbs. load on the seat. Adjust the test load to maximum weight capacity when there is such a claim on the product. Modification = Loading parameter changed, rotation angle changed (or determine per ASTM F2613 section 6.6.2 and 6.6.3 if no claim)	
*Caster Durability	ANSI/BIFMA X5.1-17 Sec. 16 (Mod.)	1 Sample	No structural failure or loss of service after 100,000 cycles (30 In. forward / backward stroke) under a 175 lbs. load on the seat. Adjust the test load to maximum weight capacity when there is such a claim on the product. Modification = Loading parameter changed (or determine per ASTM F2613 section 6.6.2 and 6.6.3 if no claim)	
*Tilt Mechanism Durability	ANSI/BIFMA X5.1-17 Sec. 9 (Mod.)	1 Sample	No structural breakage or loss of serviceability in 200,000 cycles under a 175 lbs. load on the seat. Adjust the test load to maximum weight capacity when there is such a claim on the product. Modification = Loading parameter and cycles changed (or determine per ASTM F2613 section 6.6.2 and 6.6.3 if no claim)	

PRICING AND ADDITIONAL NOTES:

Please consult with Lab for the number of samples.

Protocol Version	Description of Change	Revised by / Date	Approved by / Date
405 – 0	Initial Release	CY Chan Feb 10, 2004	Roger Mayerson Mar 08, 2004
405 - 1	Change title to Children's Chair (Indoor & Outdoor), change Light Fading to outdoor only, update CA 117 labeling wording, delete static wetting.	Simon Leung June 21, 2004	Roger Mayerson July 01, 2004

405 - 2	Updated the Limit of Lead in Scrapable Surface Coating to Meet CPSIA of 2008.	Elizabeth Armstrong Oct. 31, 2008	Ro Jain Oct. 31, 2008
405 - 3	Changed Test Protocol Title to Include Table. Added 19 CFR 134. Added Instructional Literature/Assembly Instruction. Added Maximum Weight Capacity Labeling. Added Composite Wood Products Labeling. Added Fiber Content Label/Care Label. Added Overall Dimension & Weight Measurement. Added Performance Tests for Table. Added Age Grading, Small Parts Warning, Adult Assembly & CPSIA Tracking Label. Added ASTM F 963 Use and Abuse Tests. Added Effects of Extreme Temperature/Humidity Test. Added Upholstery Tests. Changed Wood Moisture Content to 6-10%. Resistance to Corrosion Test (Metal Components Only) Applicable to Indoor and Outdoor Uses. Added Lead in Substrate Material Test. Added Formaldehyde (Upholstery) Test. Updated Lead in Substrate Material Test Method from EPA to CPSC. Updated Optional Test. Price Adjustment.	Simon Leung Oct 19, 2009	Ro Jain Oct 31, 2009
405-A	Changed protocol number from 405-3 to 405-A, price adjustment	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
405-B	Changed the Test Method for Lead in Scrapable Surface Coating from ASTM to CPSC. Updated the Test Requirement for Lead in Substrate Materials. Updated the Section Heading “OPTIONAL TEST” to “ADDITIONAL PERFORMANCE TESTS FOR CHAIRS WITH SPECIFIC FEATURES”.	Simon Leung June 13, 2011	Ro Jain June 13, 2011
405-C	Updated Sample size	John Wong Mar 26, 2013	Ro Jain Apr 15, 2013
405-D	Revised the tests of strength, safety of seating & table according to the updated standard.	Bill Wang Apr 15, 2013	Ro Jain May 27, 2013
405-E	Updated the flammability test requirement of CALIFORNIA TB 117 to 2013 version	Hary Nie Dec 13, 2013	Ro Jain Mar 7, 2014
405 - F	Added Tech Pack Verification	Candy Chan Feb 10, 2014	Ro Jain Mar 7, 2014
405 - G	Revised the unit of “Weight of Filling Material” Added Foam Density Test Add “If Claimed” in Water Resistance test line. Updated lead and resistance to corrosion tests	Hary Nie Jul 30, 2014	Jeetendra Shelatkar Aug. 4, 2014
405 - H	Renamed all in-house methods Updated CA Technical Bulletin 117 Labeling	Candy Chan Oct 24, 2014	Jeetendra Shelatkar Oct 27, 2014
405 - I	Updated the cycle of Durability Of Folding Mechanism from 10 cycles to 100 cycles	Quincy Chan Dec 10, 2014	Elizabeth Armstrong Dec 11, 2014
405 - J	Updated Law label requirement and TB 117-2013 requirements	Elizabeth Armstrong Sept 28, 2015	Jeetendra Shelatkar Sept 28, 2015
405-K	Updated AI & Tech pack testing results/rating	Elizabeth Armstrong March 14, 2016	Jeetendra Shelatkar March 14, 2016
405-L	Lead, Cadmium and Phthalate in Washington Children's Safe Products Act	Ringo Pang May 12, 2016	Elizabeth Armstrong May 13, 2016
405-M	Update finger entrapment test method. Added Registration for durable nursery product if applicable, added children’s chair and stools – flammability test, physical and mechanical test and labeling	Elizabeth Armstrong Oct 18, 2016	Elizabeth Armstrong Oct 24, 2016
405-N	Added Labeling – US EPA Formaldehyde Emission	Cindy Ng May 4, 2017	Elizabeth Armstrong May 8, 2017
405-O	Updates BIFMA methods to new industry standard	Elizabeth Armstrong May 10, 2017	Elizabeth Armstrong May 10, 2017
405-P	CPSIA Phthalates update for April 2018	Teana Robinette January 8, 2018	Teana Robinette January 8, 2018
405-Q	Updated CARB & EPA Labeling	Elizabeth Armstrong June 22,2018	Elizabeth Armstrong June 22, 2018
405-R	Added seam slippage testing	Elizabeth Armstrong Aug 29, 2018	Elizabeth Armstrong Aug 29, 2018
405-S	Added import permit req	Elizabeth Armstrong April 22, 2019	Elizabeth Armstrong April 22, 2019

405-T	Updated TB 117-2013 Requirements	Charlene Swanson November 26, 2019	Charlene Swanson November 26, 2019
405-U	Added EPA/CARB certificate requirements & removed “not provided” from tech pack verification	Elizabeth Armstrong June 11, 2020	Elizabeth Armstrong June 11, 2020
405-V	Updated ASTM F2613 to 19 and ASTM F9664 to 17 versions. Added folding and hinge testing and added tip kit requirements	Elizabeth Armstrong Aug 13, 2020	Elizabeth Armstrong Aug 13, 2020
405 - W	Added Flammability for Indoor Upholstered Furniture	Elizabeth Armstrong June 30, 2021	Elizabeth Armstrong June 30, 2021
405-X	Updated Labeling for Indoor Upholstered Furniture & Flammability for Indoor Upholstered Furniture requirements	Elizabeth Armstrong Sept 2021	Elizabeth Armstrong Sept 2021
405-Y	Added in CA TECH BULLITIN information that was missed on update	Elizabeth Armstrong Oct 2021	Elizabeth Armstrong Oct 2021
405-Z	Added PFAS Test Line, updated email for adult tracking labels	Kevin Makocy March 21, 2022	Kevin Makocy March 21, 2022
405-1	Removed year from ASTM F963 test methods	Violet Nelson / Feb 2024	Violet Nelson / Feb 2024