

~ 2026 ~
FFE – QAQC
Reference Manual



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FF&E – QA/QC Reference Manual

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- V. Manual Revisions**

I. Philosophy Of Quality

PHILOSOPHY OF QUALITY

*Improve **constantly and forever** every process for planning, production, and service. Search continually for problems in order to improve every activity in the company, to **improve quality and productivity**, and thus to constantly **decrease costs**. Institute innovation and constant improvement of product, service, and process.*

~Dr. Edwards Deming

“Quality has to be caused, not controlled.”

~Philip B. Crosby

*“Quality is **never** an accident; it is **always** the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many alternatives.”*

~Anonymous

III. Specifications

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UNACCEPTABLE QUALITY ISSUES

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SECTION 01 00 00

GENERAL REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. Provide and design Furniture, Fixtures, and Equipment (FF&E) as specified herein, complete.
- B. Section Includes:
 - 1. Furniture.
 - 2. Fixtures.
 - 3. Equipment.
- C. Related Requirements:
 - 1. Section 01 33 23 – Engineering Drawings.
 - 2. Section 01 33 24 – Installation Instructions.
 - 3. Section 01 40 00 – Sustainable Design Requirements.
 - 4. Section 01 66 00 – Packaging Guidelines.
 - 5. Section 05 00 00 – Powder Coating Schedules.
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 - 7. Section 05 50 00 – Metal Fabrication.
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 - 12. Section 06 60 10 – Acrylic.
 - 13. Section 06 60 20 – Thermoplastic Resin Materials.
 - 14. Section 08 81 00 – Glass.
 - 15. Section 08 83 00 – Glass Mirrors.

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16. Section 09 91 00 – Painting.
17. Section 10 11 43 – Magnetic Surface Material.
18. Section 10 11 46 – Magnetic Receptive Media (Graphic).
19. Section 10 19 10 – LED Edge-lit Light Box.
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25. Section 12 53 40 – PVC Edge Banding.
26. Section 12 53 50 – APVC Acrylic Based Vinyl.

1.02 REFERENCES

A. Definitions:

1. Furniture, Fixtures, and Equipment (FF&E): Movable furniture, fixtures, and other equipment that have no permanent connection to the structure of a building or utilities.
2. Furniture: Movable objects (chairs, tables, beds, etc.) intended to support various human activities.
3. Fixtures: Items used for displaying and presenting retail merchandise.
4. Equipment: Implements used in an operation or activity.

PART 2 PRODUCTS

2.01 FURNITURE

- A. Design to endure the normal wear, tear and abuse encountered in a retail environment, in which material handling and shopping carts are used on a daily basis.
- B. Have the structural stability and feet pad strength to withstand frequent movement on carpet and hard surface flooring.
 1. Feet Pad and Cladding: Metal, unless otherwise specified by Kohl's.
- C. Upholstery Fabrics: Comply with fire rating specification California Technical Bulletin 117, Section E.

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- D. Item Identification Label: Affix to furniture; reference Section 01 00 00.A – Attachment – Item Identification Label.

2.02 FIXTURES

- A. Design to endure the normal wear, tear and abuse encountered in a retail environment, in which material handling and shopping carts are used on a daily basis.
- B. Have the structural stability and caster and feet pad strength to withstand frequent movement on carpet and hard surface flooring.
- C. Fixtures and their components shall be designed to withstand stresses and damage from movement by Store Personnel, who may push and pull fixtures using any available leverage point.
- D. Infrastructure:
1. Construction, General: Size and gauge of metal as specified by Kohl's.
 - a. Ballet Bar, Thickness: 13GA.
 - b. Slotted Metal Tubing: 11GA.
 2. Metal Tube Slotting: For metal support brackets and hardware.
 - a. Slot Size: For the following applications unless otherwise specified by Kohl's.
 - 1) Single Slot Size, as Finished: .1875-inch (3/16-inch) by .5625-inch (9/16-inch).
 - 2) Double-Wide Slot Size, as Finished: .256-inch by .5625-inch.
 - b. Spacing: 1-inch on center.
 3. Surface Finishing:
 - a. Surface Finishes: Specified by Kohl's.
 - b. **Metal: All raw metals shall be either plated, powder coated, or receive rust prohibitive treatment. Raw metal is NEVER acceptable.**
 - c. **Wood: All raw wood edges and surfaces, including non-customer facing, shall be sealed or covered. Exposed raw wood is NEVER acceptable.**
 4. Attachments:
 - a. All attachments will be mechanically fastened or welded.
 - 1) Adhesive materials are NOT permitted.
 - 2) Item Identification Labels are NOT considered attachments and shall be

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applied using adhesive methods.

E. Performance Criteria:

1. Metal:
 - a. Weight Rating: 1.6 factor of safety, minimum.
 - b. Allowable Deflection: L/180 minimum.
2. Glass: Type, class and category specified by Kohl's.
 - a. Weight Rating: 4.0 factor of safety, minimum.
 - b. Allowable Deflection: L/600 minimum.
3. Acrylic:
 - a. Weight Rating: 4.0 factor of safety, minimum.
 - b. Allowable Deflection: L/600 minimum.
4. Composite Wood Materials:
 - a. Weight Rating: 1.6 factor of safety, minimum.
 - b. Allowable Deflection: L/180 minimum.
5. Shelving:
 - a. Weight Rating: 1.6 factor of safety, minimum.
 - b. Allowable Deflection: L/180 minimum.

F. Wood Joints:

1. General:
 - a. Fasten with glue and wood screws.
 - b. Fasten with dowel connections for trim to shelves.
2. Headers, Panels and Modular Walls:
 - a. Cam Lock Connections with Pocket Locks: Permitted only with Kohl's approval.

G. Casters:

1. Bolted to fixture, not welded.
2. If not using lock washers, use medium strength, blue, removable, 243 Loctite® for

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internal-threaded casters.

3. Approved Vendor:

- a. Great Lakes Casters; 4652 Division Street Wayland, MI 49348; (616) 877-0805.

H. Graphic Holder, Metal Channel:

1. Channel: Reference Section 01 00 00.C – Attachment – Graphic Holder “Metal Channel”.

I. Mannequin, Attachment Hardware:

1. Rotational Flange: Reference Section 01 00 00.G – Attachment – Mannequin Rotational Flange.
2. Mega Puck: Reference Section 01 00 00.K – Attachment – Mega Puck.

J. Sign Holders: Reference Section 01 00 00.D – Attachment – Sign Holder Guidelines.

1. Pins:

- a. Outside Diameter: .315-inch, +.002/-.005; finished.
- b. Length: Equals depth of member/tube inserted into, plus 1/4-inch.
- c. Spacing: Center to center dimension of pins shall be 16.375 inch, +.005/-.005 or as otherwise specified by Kohl's.

2. Protective Acrylic Covering:

- a. Provide protective plastic film masking, paper masking is NOT permitted.

3. Rivets:

- a. Position round rivet heads on front face (customer facing side).

K. Sign Holders, Metal Fixture Attachment Methods:

1. Slotted Holes: Reference Section 01 00 00.E – Attachment – Sign Holder Slotted Holes.
2. Pin/Square Punch: Reference Section 01 00 00.F – Attachment – Sign Holder “Stay Square” Pin/Punch Holes.

L. Slatwalls, Extruded Profiles:

1. Single-Side: Reference Section 01 00 00.H – Attachment – Single-Side Slatwalls, Extruded Profile.
2. Double-Side: Reference Section 01 00 00.I – Attachment – Double-Side Slatwalls,

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Extruded Profile.

- M. Tube Filler Caps: Secure metal and plastic caps with adhesive or mechanical attachment.
- N. Item Identification:
 - 1. Label: Affix to fixture; reference Section 01 00 00.A – Attachment – Item Identification Label.
 - 2. Stamp: Reference Section 01 00 00.B – Attachment – Item Identification Stamp.
 - a. DO NOT stamp items that will receive powder coat paint.
- O. Stickmen: Mechanically fastened.
 - 1. Material: Extruded aluminum.
 - 2. Finish: Anodized with clear coat.
 - 3. Finishing: Break all sharp corners and edges.
 - 4. Size: 3/16-inch to 1/4-inch square.
 - 5. Edge Offset: +1/32 / -0-inch (flush).
 - 6. Surface Offset: +0-inch (flush) / -1/32-inch.

2.03 EQUIPMENT

- A. Design to endure the normal wear, tear and abuse encountered in a retail environment, in which material handling and shopping carts are used on a daily basis.
- B. Item Identification:
 - 1. Label: Affix to equipment; reference Section 01 00 00.A – Attachment – Item Identification Label.
 - 2. Stamp: Reference Section 01 00 00.B – Attachment – Item Identification Stamp.
 - a. DO NOT stamp items that will receive powder coat painting.
- C. Installation Requirements: Refer to Section 01 40 00 – Sustainable Design Requirements; for Indoor Air Quality (IAQ) Guidelines.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 01 00 00.A

ATTACHMENT - ITEM IDENTIFICATION LABEL

Purpose:

To provide Stores Associates, and other Field Personnel, with an easy reference to identify part number and manufacturer for communicating requests or issues.

Include:

Kohl's Item Number

Vendor Name

Year of Manufacture

Sample Item Identification Label:

Kohl's Item No.:	AA-123A
Vendor Name:	ABC CORPORATION
Year of Mfg.:	2024

Requirements:

EVERY piece with a Kohl's item number shall have a permanent label.

Label Size: No larger than 1" x 2-5/8".

Label Color: Clear, white or black. (reference Label Color Guidelines below)

Label Font: Arial, **Bold**, CAPS, Black on clear or white, White on black.

Label location shall be noted and its outline shown on the Engineering Drawings.

Label all furniture, fixtures and equipment with the exception of individual hardware components that are plated. (Reference Section 01 00 00.F for requirements)

Placement Guidelines:

Place the label so that it can be easily located by a Store Associates and other Field Personnel, but NOT obvious to the Customer. Inconspicuous, but NOT hidden.

Label edges shall be positioned, so that they are parallel to the fixture (not crooked).

Do not place label on a part that could be removed or replaced such as a backer panel or basedeck cover

May require mechanical attachment (ie. Pins) on porous material (ie. Foam)

Label Color Guidelines:

<u>Clear</u>	<u>White</u>	<u>Black</u>
Acrylics	Lighter Finishes	Darker Finishes
Glass	i.e. - Frost, Oak,	i.e. - Wenge Mahogany, Shaker Cherry,
Metal	Natural Cane	Rattan Cane

Prototype Label:

Reference Requirements and Guidelines above.

Sample Prototype Item ID Label

<u>PROTOTYPE</u>	
Kohl's Item No.:	AA-123A
Vendor Name:	ABC CORPORATION
Year of Mfg.:	2024

KOHL'S Department Stores, Inc.

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SECTION 01 00 00.B

ATTACHMENT - ITEM IDENTIFICATION STAMP

Purpose:

To provide Stores Associates, and other Field Personnel, with an easy reference to identify part number and manufacturer for communicating requests and issues.

Includes:

Vendor Name:

ABC CORP

Kohl's Item No.:

XX-XXXX

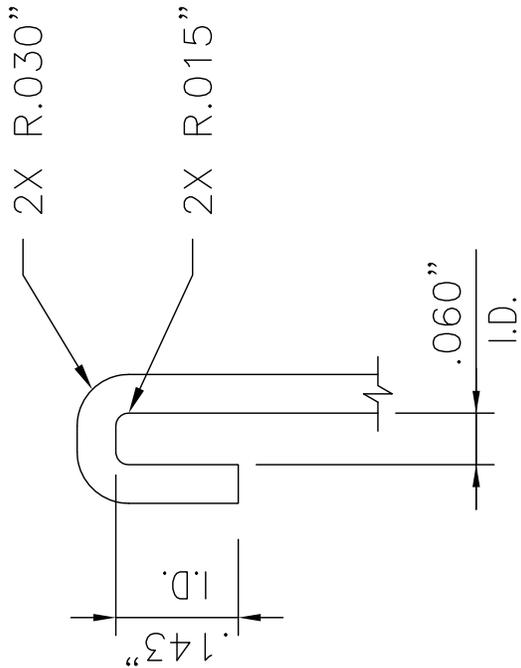
Requirements:

Stamp Font: Legible and all CAPS

Stamp location shall be noted and its outline shown on the Engineering Drawings.

Guidelines:

Place the stamp so that it can be easily located by a Store Associates and other Field Personnel, but NOT obvious to the Customer. Inconspicuous, but NOT hidden.



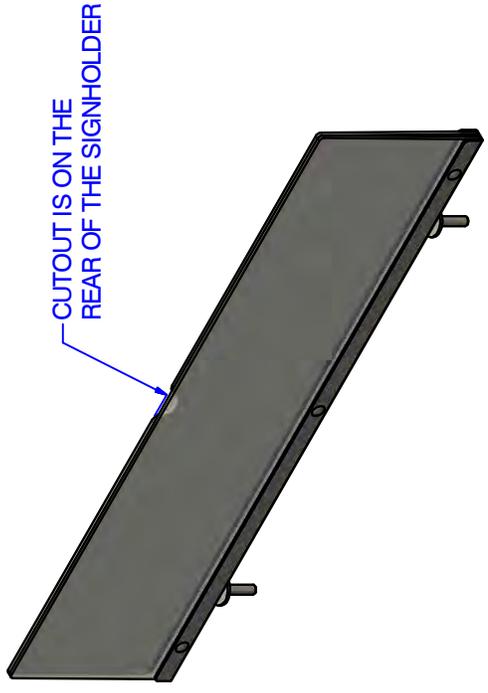
DETAIL A
SCALE 1 : 3

NO POWDER COAT
BUILD-UP, TYP

THICK. 18 GA.

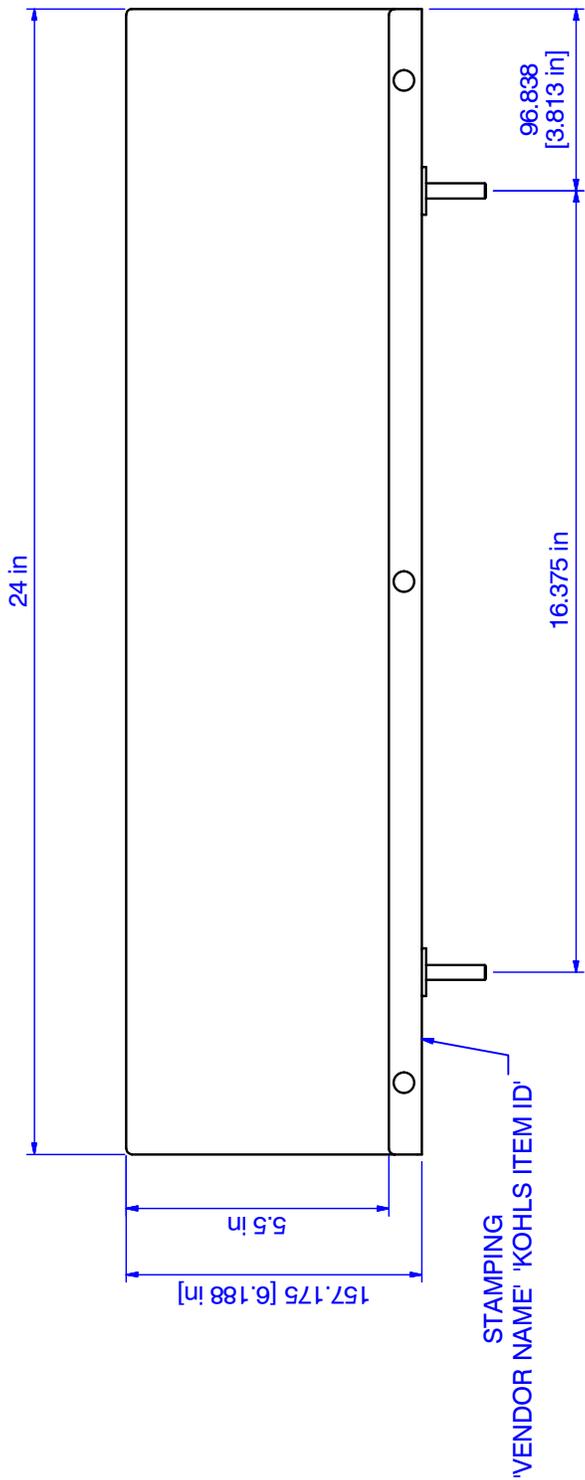
KOHL'S STORE FURNITURE, FIXTURES & EQUIPMENT APPROVED BY:	KOHL'S ITEM #: VENDOR ITEM #: KOHL'S ITEM DESCRIPTION: GRAPHIC HOLDER "METAL CHANNEL"	REV. # REV. DATE DESCRIPTION REF. #	MATERIAL C.R.S.	DESCRIPTION/FINISH N/A	VENDOR ID #: DRWN BY: CHKD BY: DG MR DATE: 05/01/2016 SHEET 1 OF 1
	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5

#	CFT NUMBER	NAME	QTY.
1	01SHD00006-1	SIGN HOLDER-BLOCK	1
2	H300609601556001	ACRYLIC SIGNHOLDER	1
3	S193800160030001	0.188" DIA. x 0.63" L RIVEL	3



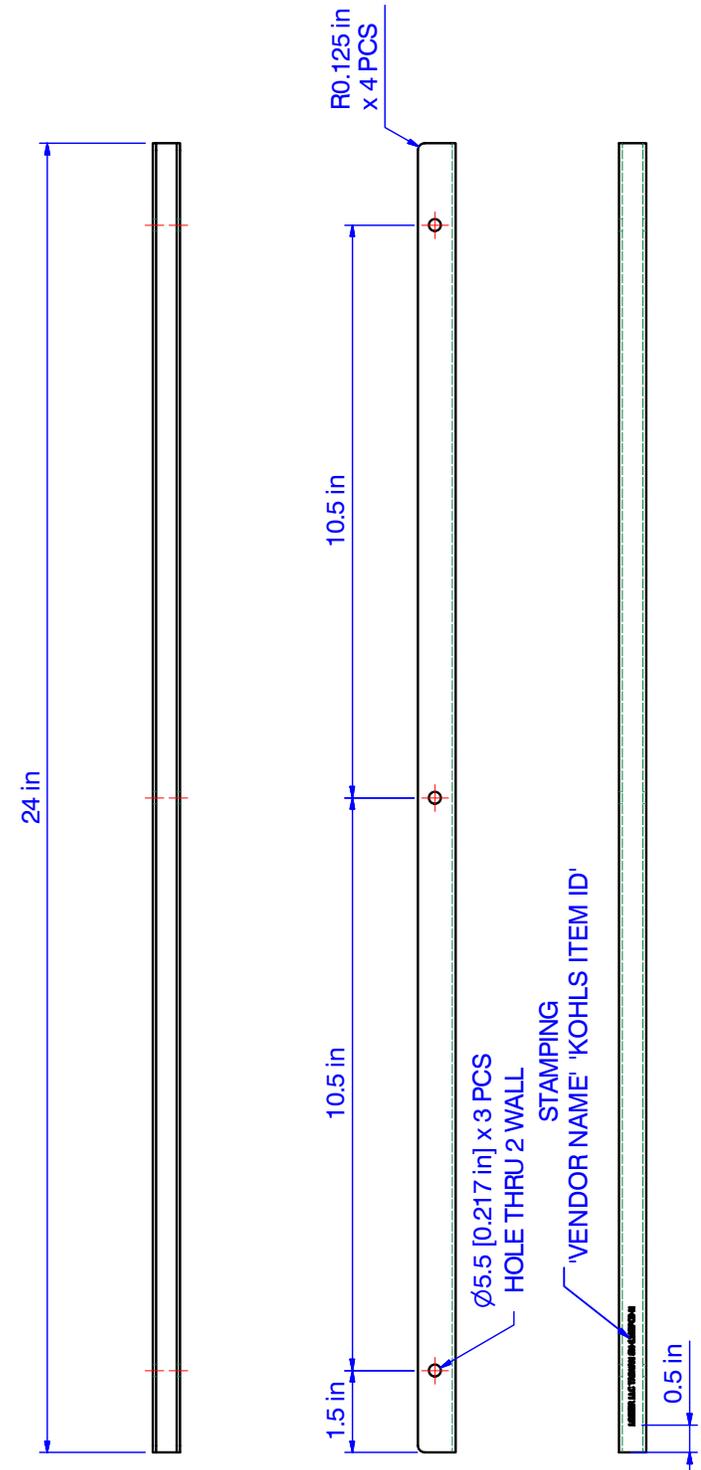
NOTE:
ACRYLIC TO BE SHIPPED WITH PROTECTIVE PLASTIC FILM MASKING NOT PAPER

NOTE:
GRAPHIC SIZE: 24 x 5.5

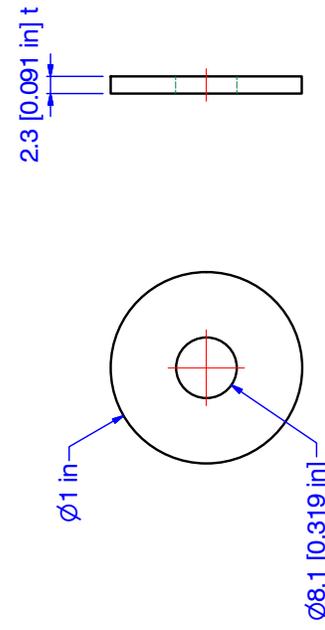
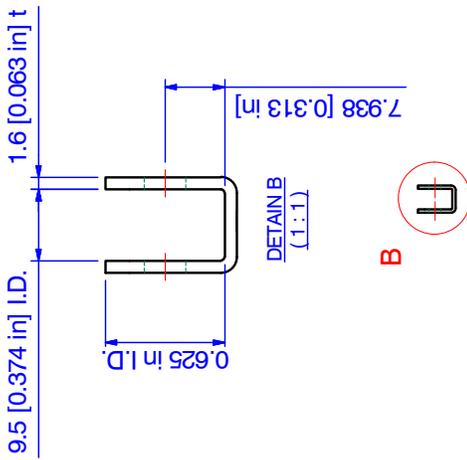


REV. #		REV. DATE	DESCRIPTION	REV. #	MATERIAL	DESCRIPTION	MATERIAL AND FINISH	VENDOR ID #:
1				1	C.R.S.	POLISHED CHROME		
2				2	ACRYLIC	CLEAR		
3				3	RIVET	ZINC		
4				4				
5				5				

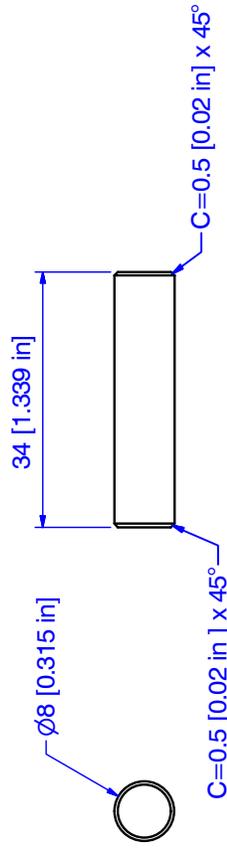
KOHL'S STORE FURNITURE, FIXTURES & EQUIPMENT		KOHL'S ITEM #: DRAWN BY: DESCRIPTION: SIGNHOLDER, 2-PINS W DISCS 16.375 OC, CLR ACR, PCHRM, 24X5.5	VENDOR ITEM #: DATE #: SHEET 1 OF 4
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1-1 x 1 PCS



1-3 x 2 PCS



1-2 x 2 PCS

REV. #		REV. DATE	DESCRIPTION	MATERIAL AND FINISH		VENDOR ID #:
REV. #	MATERIAL	DESCRIPTION	REV. #	MATERIAL	DESCRIPTION	VENDOR ITEM #:
①	C.R.S.	POLISHED CHROME	①	C.R.S.	POLISHED CHROME	
②	ACRYLIC	CLEAR	②	ACRYLIC	CLEAR	
③	RIVET	ZINC	③	RIVET	ZINC	
④			④			

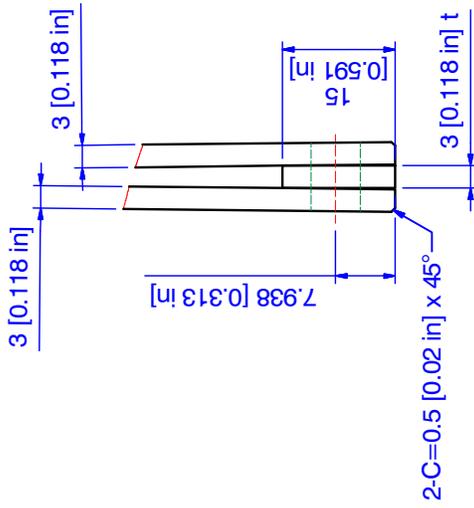
APPROVED BY: _____

KOHL'S
STORE FURNITURE, FIXTURES & EQUIPMENT

KOHL'S ITEM #: _____
DRAWN BY: _____
DESCRIPTION: SIGNHOLDER, 2-PINS W DISCS 16.375 OC, CLR ACR, PCHRM, 24X5.5

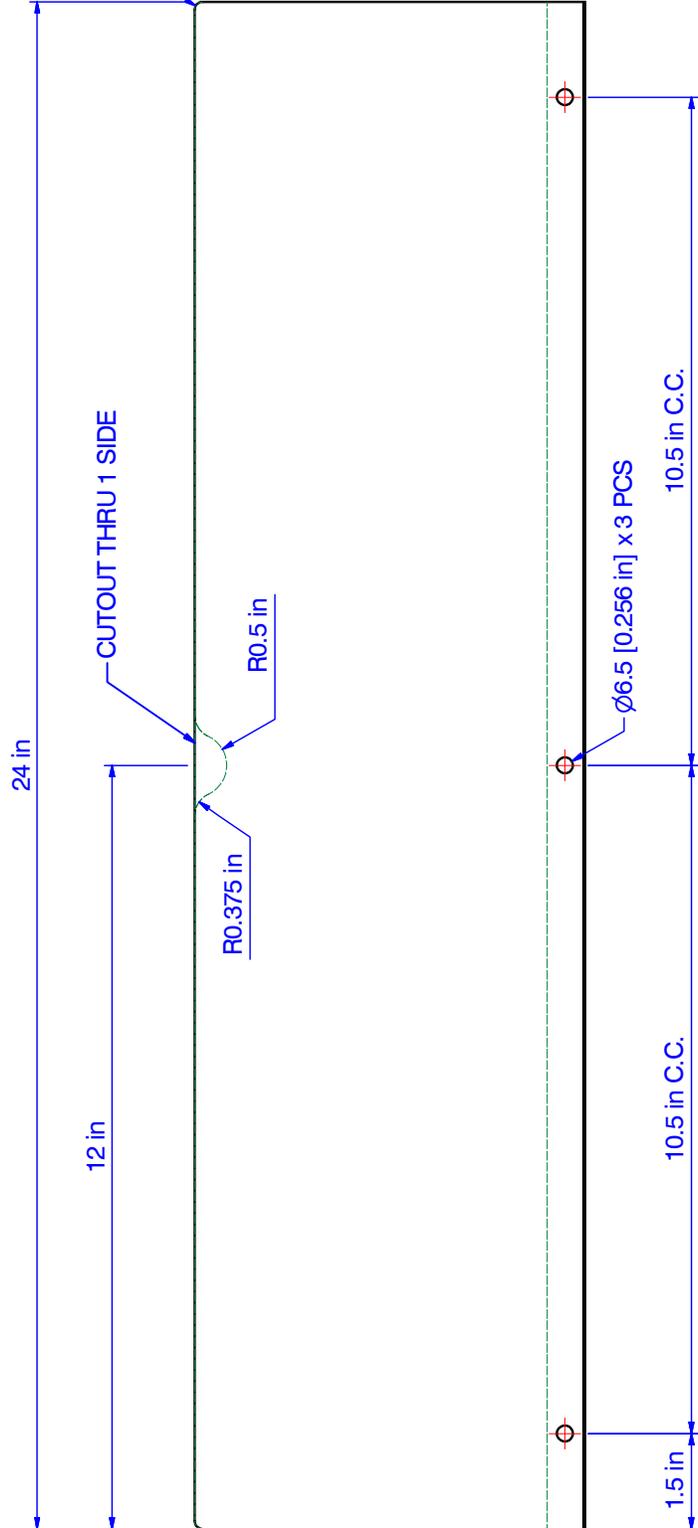
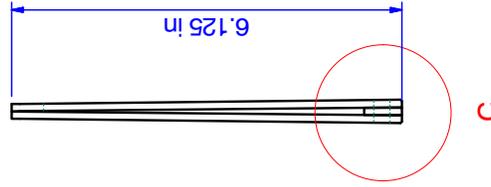
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SHEET 3 OF 4



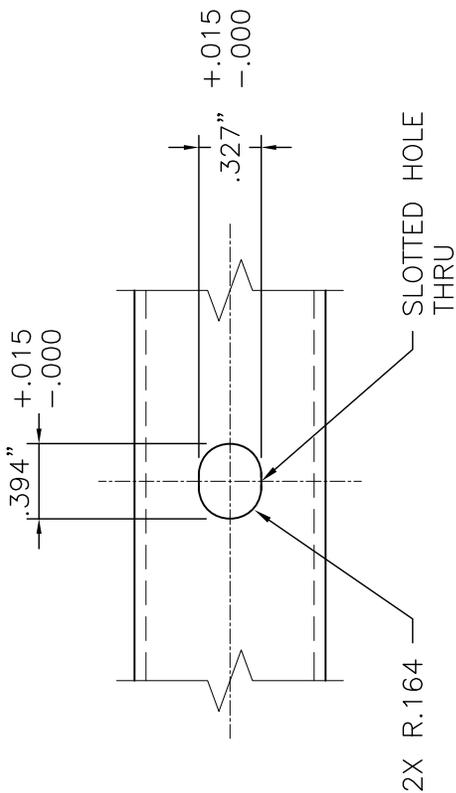
DETAIL C
(1:1)

R0.063 in x 4 PCS



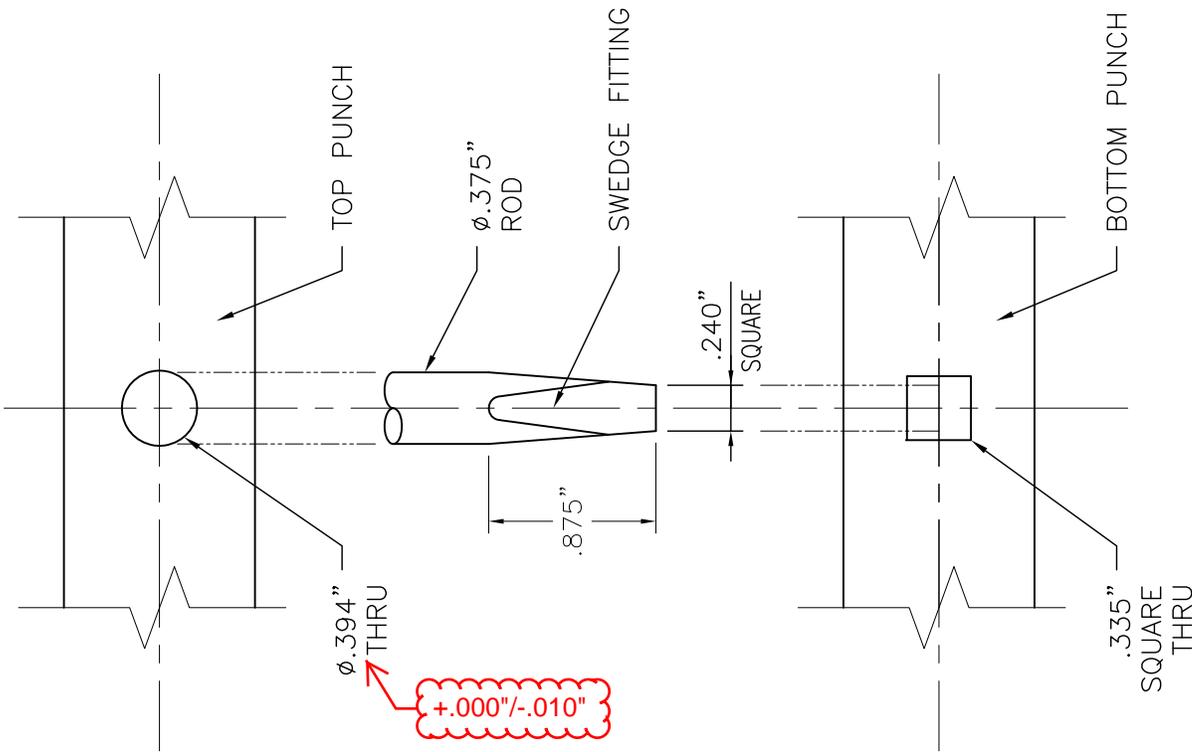
2 x 1 PCS

KOHL'S STORE FURNITURE, FIXTURES & EQUIPMENT		KOHL'S ITEM #: DRAWN BY:		REV. # REV. DATE DESCRIPTION MATERIAL AND FINISH	REV. # MATERIAL DESCRIPTION		VENDOR ID #: VENDOR ITEM #: DATE #: SHEET 4 OF 4	
		DESCRIPTION: SIGNHOLDER, 2-PINS W DISCS 16.375 OC, CLR ACR, PCHRM, 24X5.5			① C.R.S. POLISHED CHROME	② ACRYLIC CLEAR	③ RIVET ZINC	④



NOTE:
TYPICAL FOR ALL SIGNHOLDER HOLES, U.N.O

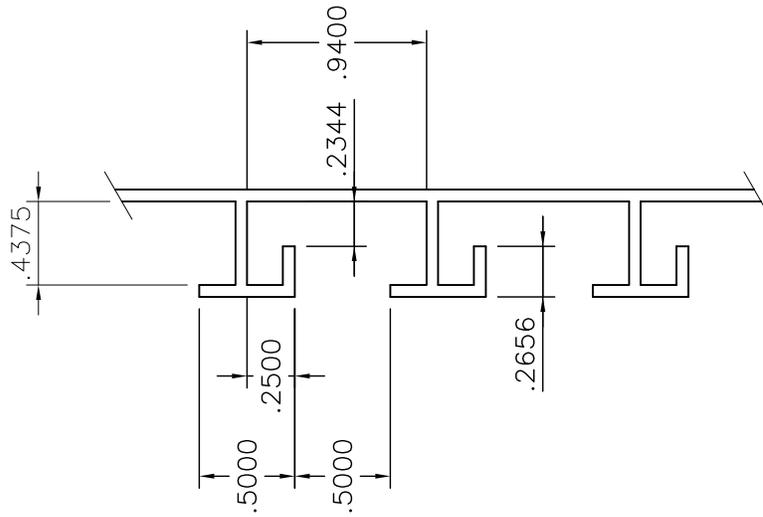
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VENDOR ITEM #:		1			1	C.R.S.	N/A	DRWN BY: DG
KOHLS ITEM DESCRIPTION: BALLET BAR SIGN HOLDER SLOTTED HOLES		2			2			MR
APPROVED BY:		3			3			DATE: 05/01/2016
		4			4			
		5			5			SHEET 1 OF 1



KOHLS ITEM #:		REV. #	REV. DATE	DESCRIPTION	REF. #	MATERIAL	DESCRIPTION/FINISH	VENDOR ID #:	
SWEDGE FITTING	VENDOR ITEM #:							DRWN BY:	CHKD BY:
		1			1	C.R.S.	N/A	DG	MR
		2			2				
		3			3			DATE:	05/01/2016
		4			4				
		5			5				SHEET 1 OF 1

KOHL'S
STORE FURNITURE, FIXTURES & EQUIPMENT

APPROVED BY:

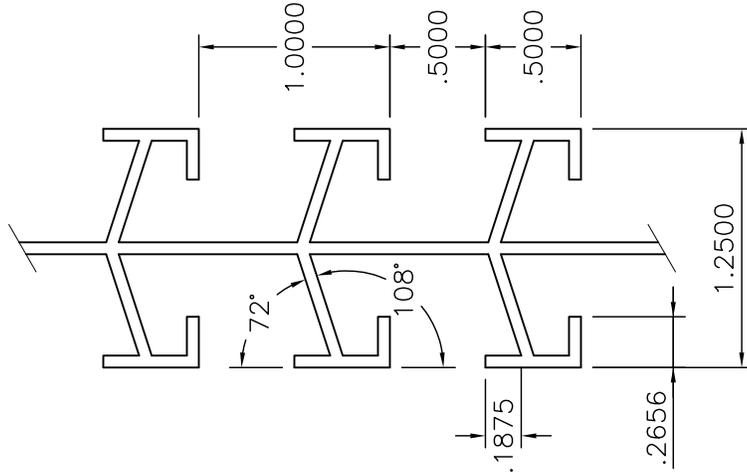


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VENDOR ITEM #:								DRWN BY:	CHKD BY:
		1			1			DG	MR
		2			2				
		3			3			DATE:	05/01/2016
		4			4				
		5			5				SHEET 1 OF 1

KOHL'S
STORE FURNITURE, FIXTURES & EQUIPMENT

KOHL'S ITEM DESCRIPTION:
SINGLE-SIDE
SLATWALL,
EXTRUDED PROFILE

APPROVED BY:



KOHLS ITEM #:		REV. #	REV. DATE	DESCRIPTION	REF. #	MATERIAL	DESCRIPTION/FINISH	VENDOR ID #:		
STORE FURNITURE, FIXTURES & EQUIPMENT	VENDOR ITEM #:							DRWN BY:	CHKD BY:	
KOHL'S STORE FURNITURE, FIXTURES & EQUIPMENT APPROVED BY: _____	KOHLS ITEM DESCRIPTION: DOUBLE-SIDE SLATWALL, EXTRUDED PROFILE	1			1			DG	MR	
		2				2				
		3				3			DATE:	05/01/2016
		4				4				
		5				5				SHEET 1 OF 1

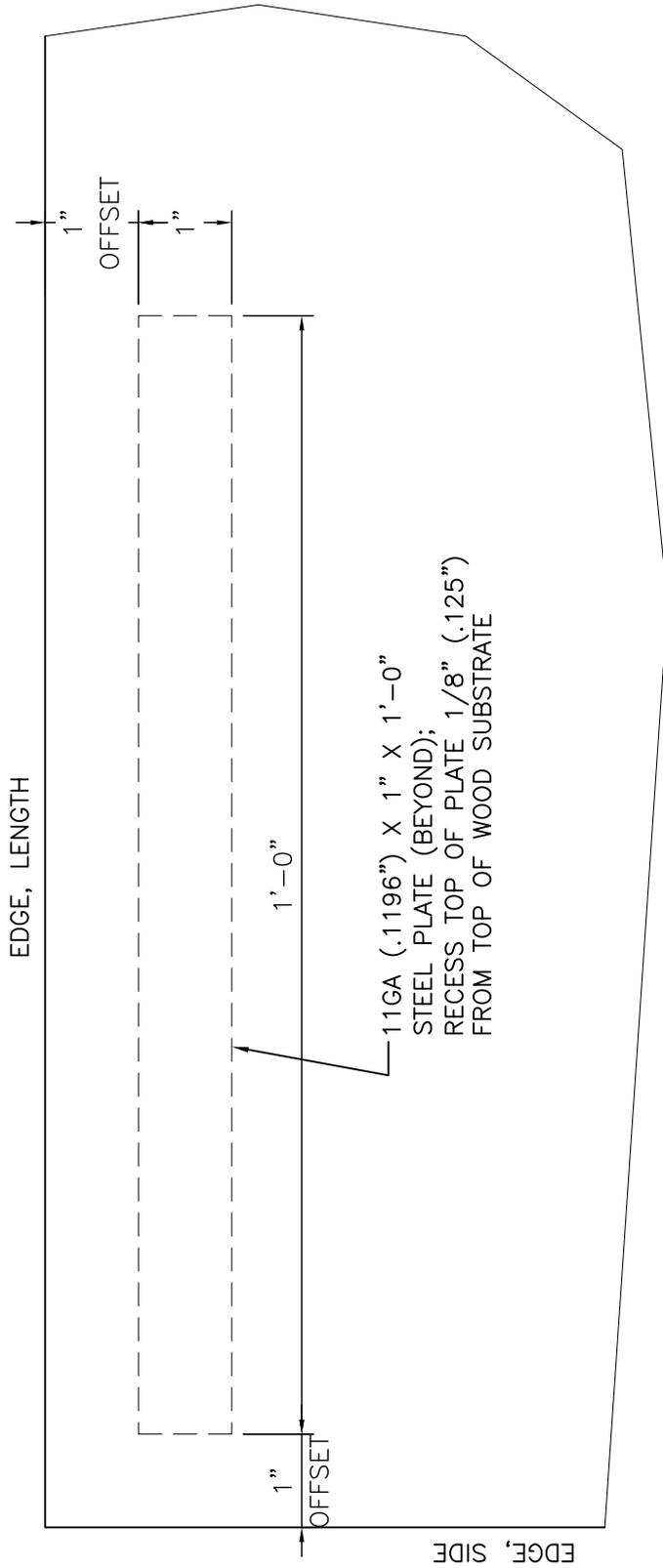
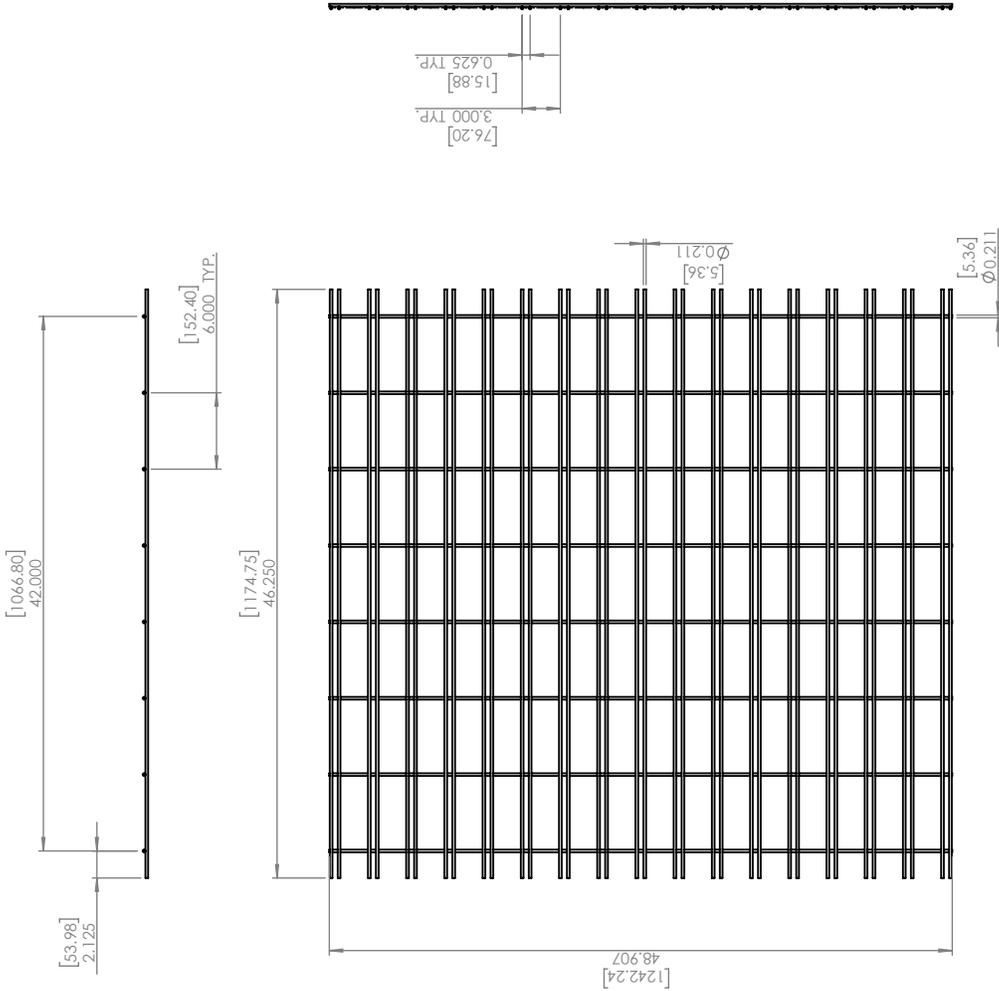
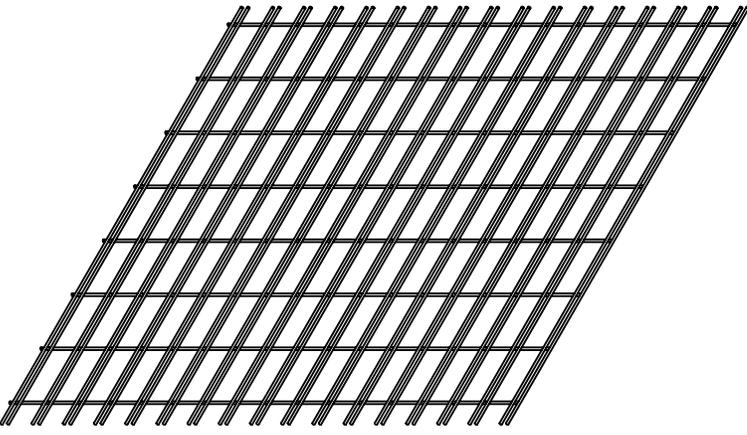


TABLE TOP - PARTIAL VIEW

<p>KOHL'S STORE FURNITURE, FIXTURES & EQUIPMENT</p> <p>APPROVED BY: _____</p>	KOHL'S ITEM #: VENDOR ITEM #: KOHL'S ITEM DESCRIPTION: MAGNETIC CATCH PLATE FOR SIGNHOLDER		REV. #	REV. DATE	DESCRIPTION	REF. #	MATERIAL	DESCRIPTION/FINISH	VENDOR ID #:
			1			1			DRWN BY: DG
			2			2			CHKD BY: MR
			3			3			DATE: 05/01/2016
			4			4			SHEET 1 OF 1



*WEIGHT 19.493 LBS

KOHL'S

STORE FURNITURE, FIXTURES & EQUIPMENT

APPROVED BY:

KOHL'S ITEM #:

DRAWN BY:

DESCRIPTION:

REV. # REV. DATE DESCRIPTION

- 1
- 2
- 3
- 4
- 5

MATERIAL AND FINISH

REF. # MATERIAL DESCRIPTION

- 1 STEEL WIRE, 5 GA POWDERCOAT, DESIGNER WHITE (211 DIA)
- 2
- 3
- 4

VENDOR ID #:

VENDOR ITM #:

DATE:

SHEET

	REV. #	REV. DATE	DESCRIPTION	REF. #	MATERIAL	DESCRIPTION/FINISH	VENDOR ID #:
	①			①			DRWN BY: _____
	②			②			CHKD BY: _____
	③			③			DATE: _____
	④			④			
	⑤			⑤			SHEET OF

<p>KOHL'S STORE FURNITURE, FIXTURES & EQUIPMENT</p>	<p>KOHL'S ITEM #: _____</p> <p>VENDOR ITEM #: _____</p> <p>KOHL'S ITEM DESCRIPTION: _____</p>
<p>APPROVED BY: _____</p>	



KOHLS ITEM #: KOHLS ITEM DESCRIPTION: SCALE/FACTOR:	VENDOR ID #:	REV. #	REV. DATE	DESCRIPTION	REF. #	MATERIAL	DESCRIPTION/FINISH	DRAWN BY:	CHKD BY:
	VENDOR ITEM #:	①			①			DATE:	SHEET OF
		②			②				
		③			③				
		④			④				
	⑤			⑤					

APPROVED BY:

KOHL'S Department Stores, Inc.

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SECTION 01 33 23

ENGINEERING DRAWINGS

PART 1 GENERAL

1.01 SUMMARY

- A. Submit Engineering Drawings in English and with NO translations as specified herein, complete.
- B. Section Includes:
 - 1. Engineering Drawing Requirements
 - 2. Fixture Specific, Engineering Drawing Requirements
 - 3. Revisions.
- C. Related Requirements:
 - 1. Section 01 00 00 – General Requirements
 - 2. Section 01 33 24 – Installation Instructions.

1.02 REFERENCES

- A. Definitions:
 - 1. Item: A single piece of furniture, fixture or equipment.
 - 2. Kit: A grouping of more than one item.
 - 3. Part: Individual components (i.e. accessories or hardware) of an item.
 - 4. Pack (PK): More than one of the same item packaged together.
- B. Reference Standards: Comply with test methods and reference standards in effect as of the date of Contract Documents.
 - 1. American Society of Mechanical Engineers, The (ASME)
 - a. ASME Y14.1 – Decimal Inch Drawing Sheet Size and Format
 - b. ASME Y14.2 – Line Conventions and Lettering
 - c. ASME Y14.3 – Orthographic and Pictorial Views
 - d. ASME Y14.5 – Dimensioning and Tolerancing.
 - 2. ASTM International (ASTM)

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3. American Welding Society (AWS)
 - a. AWS A2.4 – Standard Symbols for Welding, Brazing, and Nondestructive Examination.
4. National Electrical Manufacturers Association (NEMA)
5. UL (formerly Underwriters Laboratories).

1.03 SUBMITTALS

- A. Engineering Drawings: Submit drawings within 15 days of the Contract Date for review and approval.

PART 2 ENGINEERING DRAWING REQUIREMENTS

2.01 DRAWING SHEET SIZE AND FORMAT

- A. Drawing Sheet Size and Format: Submit in accordance with ASME Y14.1.
- B. Approved Drawing Sheet Sizes and Formats:
 1. 8 ½ x 11 – Vertical
 2. 11 x 8 ½ – Horizontal, preferred; Reference Section 01 33 23.A – Attachment – 11 x 8.5 Sheet Format
 3. 17 x 11 – Horizontal, preferred; Reference Section 01 33 23.B – Attachment – 17 x11 Sheet Format.

2.02 TITLE BLOCK

- A. Kohl's Title Block: Reference Section 01 33 23.A – Attachment – 11 x 8.5 Sheet Format and Section 01 33 23.B – Attachment – 17 x11 Sheet Format.
- B. Kohl's Item/Kit Designation:
 1. With Dashes: Indicate ITEM (i.e. WD-182).
 2. Without Dashes: Indicate KIT (i.e. WD182).
- C. Item/Kit Descriptions:
 1. Shall match Kohl's.
- D. Vendor Name and Logo:
 1. Permitted, but NOT recommended.
- E. Vendor Item/Kit Designation/Number:

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- F. Scale Factor:
- G. Drawn By:
- H. Drawing Effective Date:
- I. Drawing Revision Number, Date, and Description:
- J. Sheet Number:

2.03 BILL OF MATERIALS LIST

- A. Vendor Part Designation/Number.
- B. Part Quantities.
- C. Part Materials:
 - 1. Metal: Size, type, class, grade, alloy, temper, and finish.
 - 2. Wood: Thickness, type or specific wood-based fiber board material.
 - 3. Plastic: Thickness, type and color.
 - 4. Glass: Thickness, type and color.
 - 5. Covering, Material/Skin: Material, color, material thickness (when applicable), manufacturer, and manufacturer's product number (including texture when applicable).
 - a. Examples:
 - 1) Laminate, Wild Apple, Wilson Art, 16017-78.
 - 2) Powder Coat, Wildcard Orange, Tiger Drylac, RAL-2003D.
 - 3) Vinyl, Shark Gray, 0.012, Omnova, 509024.
 - 6. Covering, Fabrics/Textiles: Material, color/pattern, manufacturer, and manufacturer's product number.
 - a. Pattern Swatch: Provide color/pattern swatch, elsewhere on Engineering Drawings.
 - 7. Adhesives, Primers, and Sealants: Type, color, manufacture, and manufacturer's product number.
 - 8. Casters: Manufacturer, manufacturer's product number, type, finish, overall height, load capacity, swivel radius, mount type, mount size, locking/non-locking, wheel material type (i.e. soft rubber, hard rubber, or non-marking polyolefin), wheel diameter, and wheel surface contact area.

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9. Fasteners: Type, diameter, length, and thread gage.

D. Part Descriptions.

E. Part Finishes.

2.04 ORTHOGRAPHIC AND PICTORIAL (DRAWING) VIEWS

A. Naming Views:

1. Label sections, views, and details, including exploded and isometric views.

B. Scaling of Views:

1. Indicate scale of all sections and views, if different from object scale.

2. Indicate scale of all details.

C. Direction of Finishes and Coverings: Indicated in Views.

1. Laminate and Edge Banding: Indicate grain direction, if applicable.

2. Metal: Indicate brush/texture direction, if applicable.

2.05 DIMENSIONING AND TOLERANCING

A. Metal Dimensions: In decimal format; inches.

1. Precision: Thousandths (.001) or 1/32 inch.

2. Tolerance: As specified (see individual specification sections for tolerances).

B. Wood Dimensions: In fractional inches.

1. Precision: 1/32 inch.

2. Tolerance: +/- 1/32 inch, unless noted otherwise.

2.06 WELDING

A. Welding Symbols: Provide in accordance with AWS A2.4.

1. Provide welding symbol for all welds.

2. Provide welding method/process/specification for each welding symbol.

2.07 GRAPHIC SIZES

A. Graphic Sizes: Provide on Drawings.

1. Graphic cut size dimensions.

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2. Graphic viewable size dimensions.

2.08 GLASS AND PLASTIC MATERIAL EDGE FINISHES

- A. Specify edge finish of glass and plastic materials.

PART 3 FIXTURE SPECIFIC, ENGINEERING DRAWING REQUIREMENTS

3.01 CORRUGATED

- A. Provide flat line drawings; fully dimensioned.
- B. Provide 3-dimensional view with overall dimensions.

3.02 ELECTRIFIED

- A. Drivers: Provided the following on Drawings.
 1. Usage Rating: Non-plenum, plenum, emergency, etc.
 2. Input Voltage, V: 120-277 (i.e. MVOLT or Universal)
 3. Input Frequency, Hz
 4. Input Current, A
 5. Wattage, W
 6. Output Voltage, V
 7. Output Amperage, A
 8. Power Factor (PF)
 9. Plug Type, P: 90-degree or 180-degree, in accordance with NEMA L5 and NEMA L7 configurations
 10. Receptacle Type, R: Non-locking or twist-locking, in accordance with NEMA L5 and NEMA L7 configurations
- B. LED Information: Provide the following on Drawings.
 1. Color Correlation Temperature (CCT)
 2. Brightness/Illumination values, in foot candles
 3. Uniformity value
 4. Life cycle, in hours of operation.
- C. UL Certification: Provide the following on Drawings.

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1. UL symbol
2. UL file number
3. UL project number
4. Vendor name
5. Vendor city, state, zip code.

3.03 MANNEQUINS AND FORMS

- A. Views: Reference Section 01 33 23.A – Attachment – Mannequin Drawing Example.
 1. Provide illustrated (photographic) views of front, back, sides, and any additional views needed to convey design intent.
 2. Provide illustrated (photographic) views of all connections/fittings to torso, arms, legs and feet.
 3. Provide illustrated (photographic) exploded view with all sub-components/replacement parts labeled with Kohl's Item Identifiers, if applicable.
- B. Measurements: Reference Section 01 33 23.A – Attachment – Mannequin Drawing Example.
 1. Provide form measurements (in inches), as applicable: neck, shoulder, chest, bust, arm, waist, hips, inseam, shoe size (in US), etc.
- C. Materials: Reference Section 01 33 23.C – Attachment – Mannequin Drawing Example.
 1. Provide all form materials, i.e. fiberglass, PU, PVC, etc.
- D. Mannequin Platform Bases: Includes metal base and metal rod.
 1. Metal Base:
 - a. Material: 3/16-inch thick steel plate.
 - b. Geometry: 1/16-inch radiused corners.
 - c. Finish:
 - 1) 240-grit satin nickel finish; No clear coat or lacquer finishes permitted.
 - 2) Grain (grit) Direction: Front to back, unless noted otherwise.
 - d. Feet/Pads:
 - 1) (4) 1-inch diameter by 1/8-inch thick, rubber, anti-skid pads on underside of metal base.

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2. Metal Rod (Ankle/Butt/Calf):
 - a. Material: 3/8-inch (+0 / -.002) square steel rod.
 - b. Welding: Plug-weld rod to underside of metal base and GTAW weld rod to top of metal base.
 - c. Item Identification: Stamped into metal rod; reference Section 01 00 00.B – Attachment – Item Identification Stamp.

3.04 WALL COVERINGS

- A. Views:
 1. Provide illustrated (photographic) view.
- B. Item Identification:
 1. Printed on front, bottom corner; reference Section 01 00 00.A – Attachment – Item Identification Stamp for informational requirements.

PART 4 REVISIONS

4.01 GENERAL

- A. Revisions:
 1. Revisions shall be clouded and identified with a revision symbol.
 - a. Revision symbols (triangle) shall include revision number.
 - b. When adding subsequent revisions, remove previous revision clouds, but leave all previous revision symbols in place.
- B. Overall Dimensional Changes:
 1. Do NOT revise the overall dimensions of an Item, unless approved by Kohl's.

END OF SECTION

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SECTION 01 33 24

INSTALLATION INSTRUCTIONS

PART 1 GENERAL

1.01 SUMMARY

- A. Submit Installation Instructions as specified herein, complete.
- B. Section Includes:
 - 1. Title Block.
 - 2. Step by Step Instructions.
 - 3. Spotter's Guide.
 - 4. Revisions.
- C. Related Requirements:
 - 1. Section 01 00 00 – General Requirements.
 - 2. Section 01 33 23 – Engineering Drawings.

1.02 REFERENCES

- A. Definitions:
 - 1. Item: A single piece of furniture, fixture or equipment.
 - 2. Kit: A grouping of more than one item.
 - 3. Part: Individual components (i.e. accessories or hardware) of an item.
 - 4. Pack (Pk): More than one of the same item packaged together.

1.03 SUBMITTALS

- A. Installation Instructions: Submit within 15 days of the Contract Date for review and approval.

PART 2 INSTALLATION INSTRUCTIONS

2.01 TITLE BLOCK

- A. Kohl's Logo: Reference Section 01 33 23.A – Attachment – 11 x 8.5 Sheet Format and Section 01 33 23.B – Attachment – 17 x 11 Sheet Format.
- B. Kohl's Item Number.

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- C. Fixture Description.
- D. Vendor Identification Number:
 - 1. Vendor name is NOT permitted.
- E. Effective Date.
- F. Materials and Finishes.

2.02 STEP BY STEP INSTRUCTIONS

- A. Isometric of completed furniture, fixture or equipment.
 - 1. Provide direction of laminate grain.
- B. Bill of Materials List:
 - 1. Instruction Identification Numbers.
 - 2. Kohl's Item Numbers.
 - 3. Miscellaneous vendor provided hardware, electrical components, etc.
 - 4. Descriptions.
 - 5. Quantities.
- C. Instruction Steps
 - 1. Items and parts shall be called-out and identified with the exact name as it appears on the Engineering Drawings.

2.03 SPOTTER'S GUIDE

- A. Used only for series of fixtures (i.e. columns, walls, home department, etc.) and should include the following:
 - 1. Kohl's Kit Numbers.
 - 2. Laminate Name/Description.
 - 3. Kohl's Item List, including quantities.
 - 4. Floor Plan Symbol.
 - 5. Isometric of completed furniture, fixture or equipment
 - a. Provide direction of laminate grain.

PART 3 REVISIONS

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3.01 GENERAL

A. Installation Instruction, Revisions:

1. Revisions shall be clouded and identified with a revision symbol.
 - a. Revision symbols (triangle) shall include revision number.
 - b. When adding subsequent revisions, remove previous revision clouds, but leave all previous revision symbols in place.

END OF SECTION

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SECTION 01 40 00

SUSTAINABLE DESIGN REQUIREMENTS

PART 1 GENERAL

1.01 REFERENCE STANDARDS

- A. 2016 California Green Building Standards Code (CALGreen) – Title 24, Part 11, including Supplements and Errata.
 - 1. Low Emitting Materials – Limits: Reference Section 01 40 00.A – Attachment – Low Emitting Materials – Limits.
 - 2. Composite Wood and Agrifiber Products – No Added Formaldehyde: Reference Section 01 40 00.A – Attachment – Low Emitting Materials – Limits.
 - a. Composite wood and Agrifiber products used on the interior or exterior of the building shall contain 'no added urea-formaldehyde' (NAUF) resins.
- B. Sheet Metal and Air Conditioning Contractors' National Association (SMACNA).
 - 1. Indoor Air Quality (IAQ) Guidelines for Occupied Buildings under Construction.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 01 42 00

REFERENCES

PART 1 GENERAL

1.01 ABBREVIATIONS AND ACRONYMS

- A. When abbreviations appear on Drawings or in Specifications, they shall represent technical societies, institutions, associations, governmental agencies and publications as listed below.
1. **AISI** (American Iron and Steel Institute): Provides standards for iron and steel to produce high-quality products and a competitive domestic manufacturing environment.
 2. **ANSI** (American National Standards Institute): Provides standards to protect the environment and ensure the health and safety of consumers.
 3. **ASME** (American Society of Mechanical Engineers, The): Provides standards for promoting the art, science, and practice of multidisciplinary engineering and allied sciences.
 4. **ASTM** (ASTM International): Provides standards on steel, metal, plastics, metal, and textile to enhance product quality and consumer safety.
 5. **AWS** (American Welding Society): Provides standards for advancing the science, technology, and application of welding and allied joining and cutting processes, including brazing, soldering, and thermal spraying.
 6. **CALGreen** (California Green Building Standards Code): Title 24, Part 11 of the California Building Standards Code and is the first statewide "green" building code in the US.
 7. **CPSC** (Consumer Product Safety Commission): Provides standards to protect consumers from fire, electrical, chemical, and mechanical risks.
 8. **ISO** (International Organization for Standardization): Provides standards for manufacturing engineering.
 9. **NEMA** (National Electrical Manufacturers Association): Provides standards for electrical equipment manufacturing.
 10. **SMACNA** (Sheet Metal and Air Conditioning Contractor's National Association): Provides indoor air quality guidelines.
 11. **UL** (formerly Underwriters Laboratories): Provides safety-related certification, validation, testing, and inspection, auditing, advising and training services.

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PART 2 PRODUCTS – NOT USED

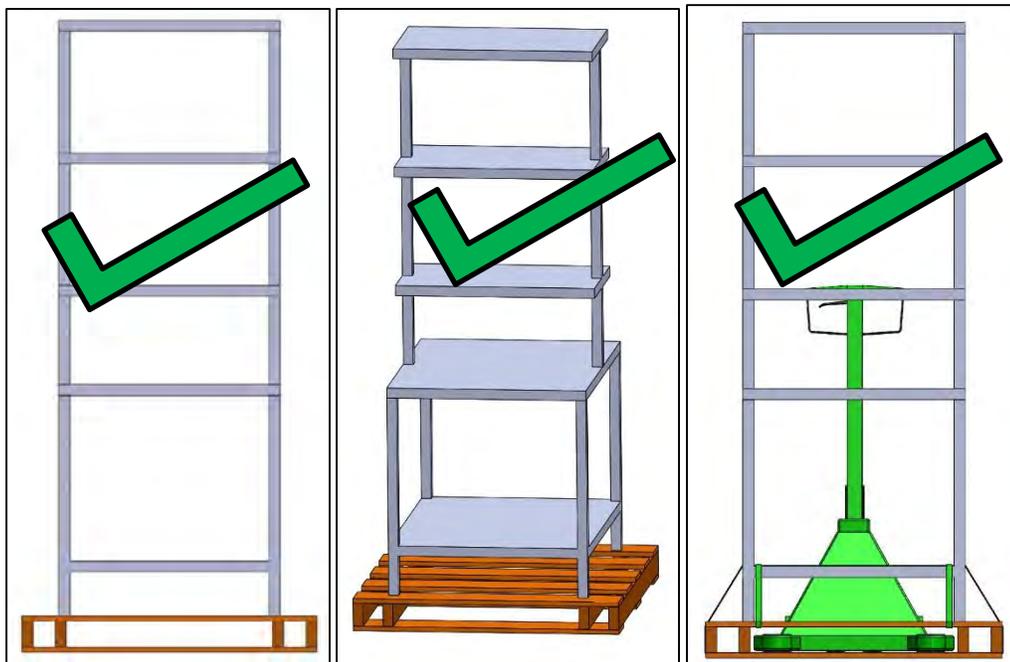
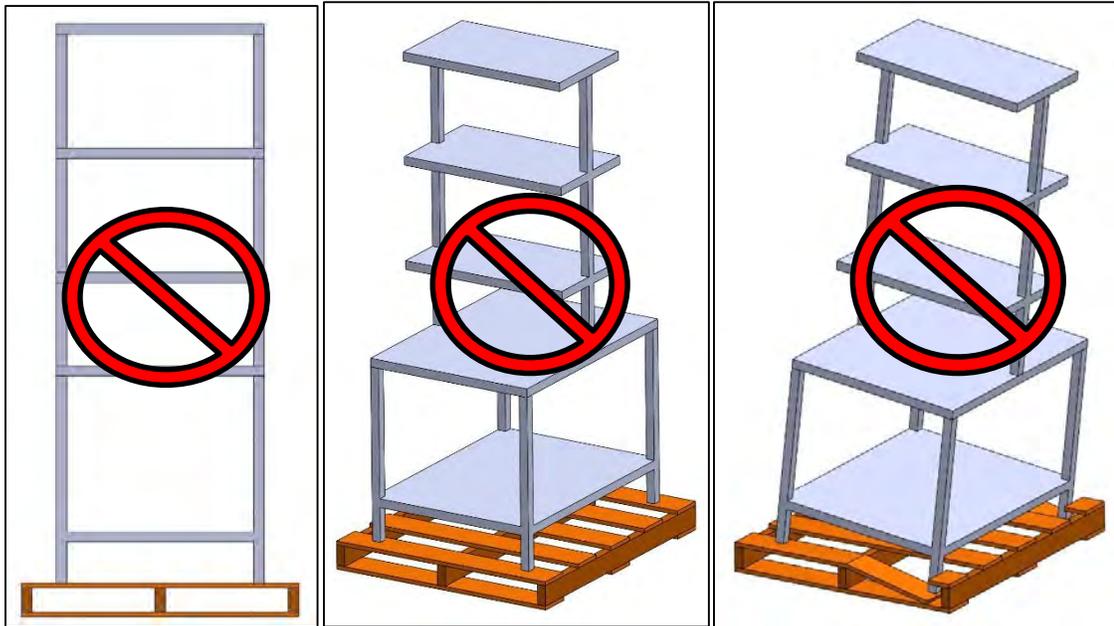
PART 3 EXECUTION – NOT USED

END OF SECTION

Packaging Guidelines

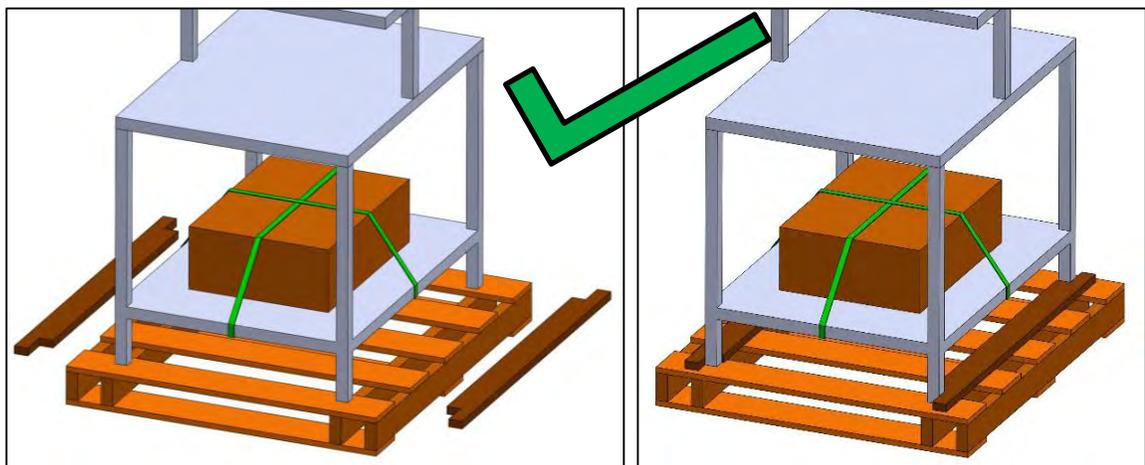
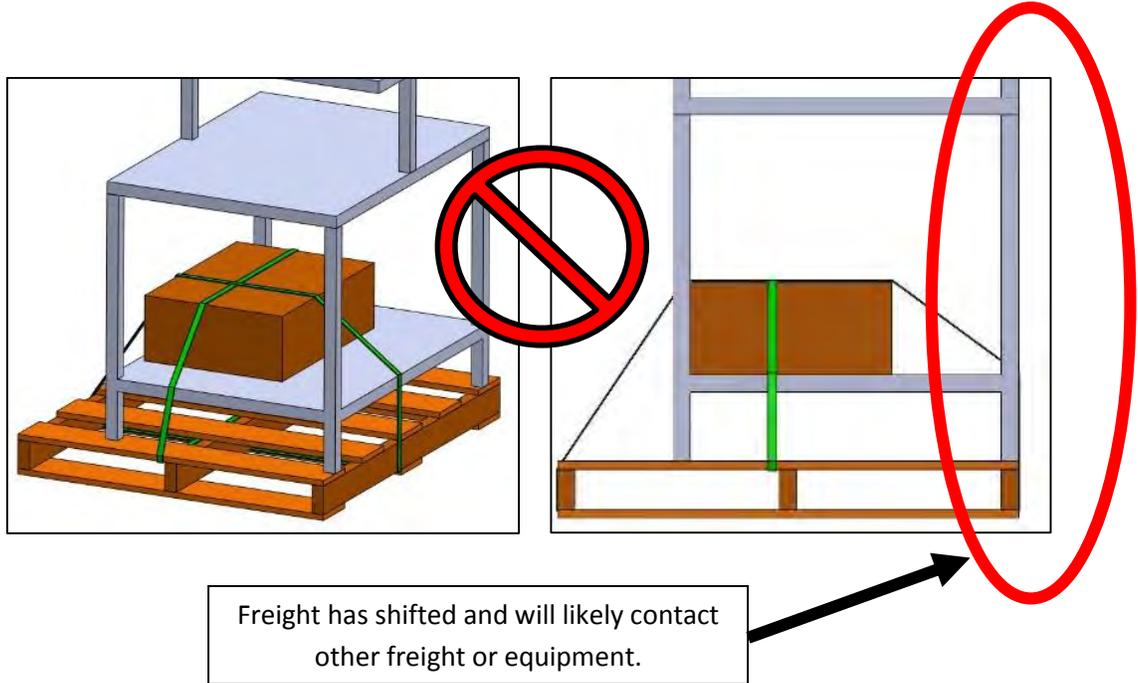
1. Pallets

- Size the pallet to more closely match fixture length and width.
- Ensure pallet directly supports concentrated loading points to prevent pallet failure and freight damage.
- Ensure pallet design allows access for common material handling equipment. See 'Common Material Handling Equipment Dimensions' at the end of this Section.
- Shipments should not exceed 84" tall or be over 2000 lbs.



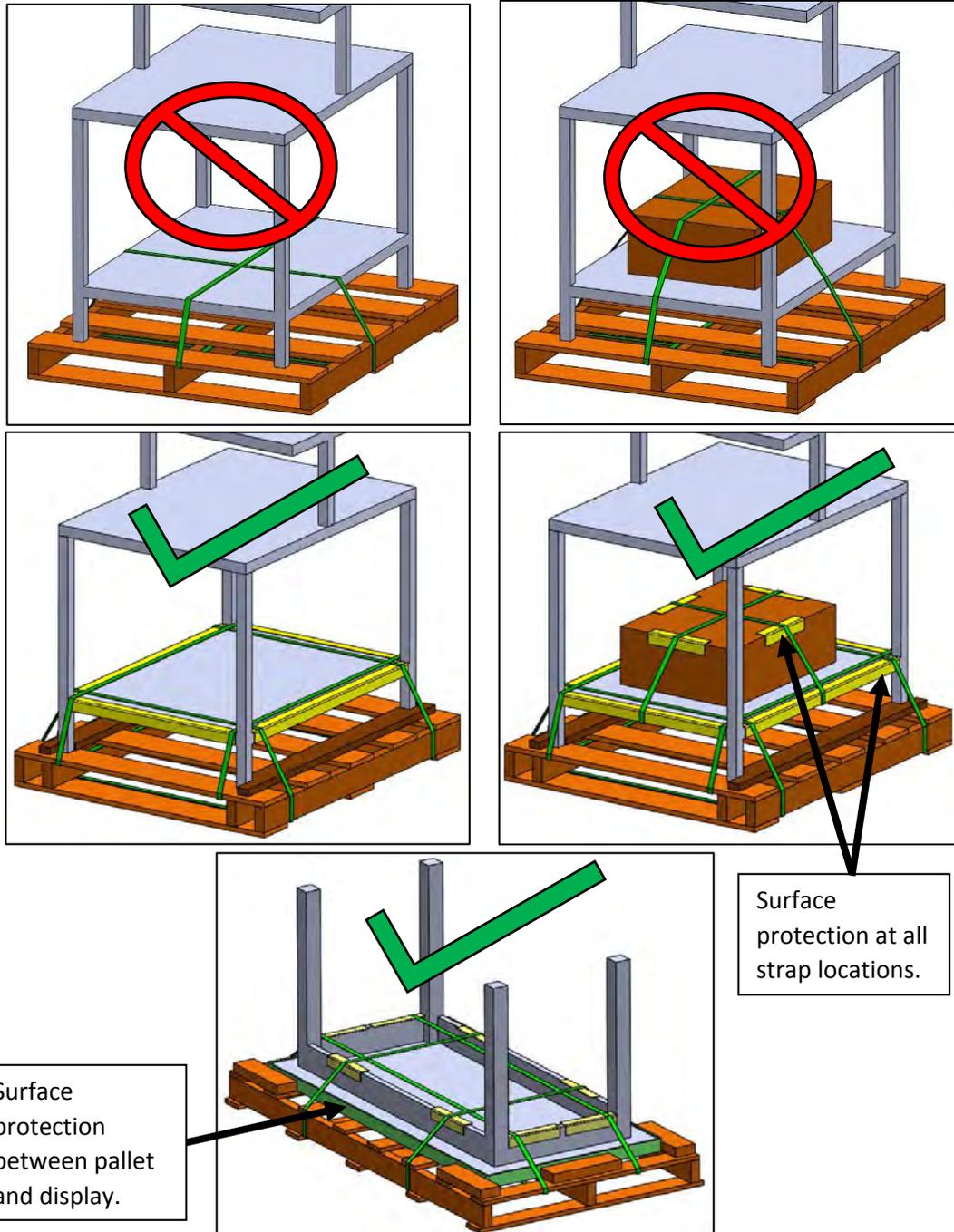
2. Lateral Shifting:

Chock freight to prevent contact with other freight or equipment.



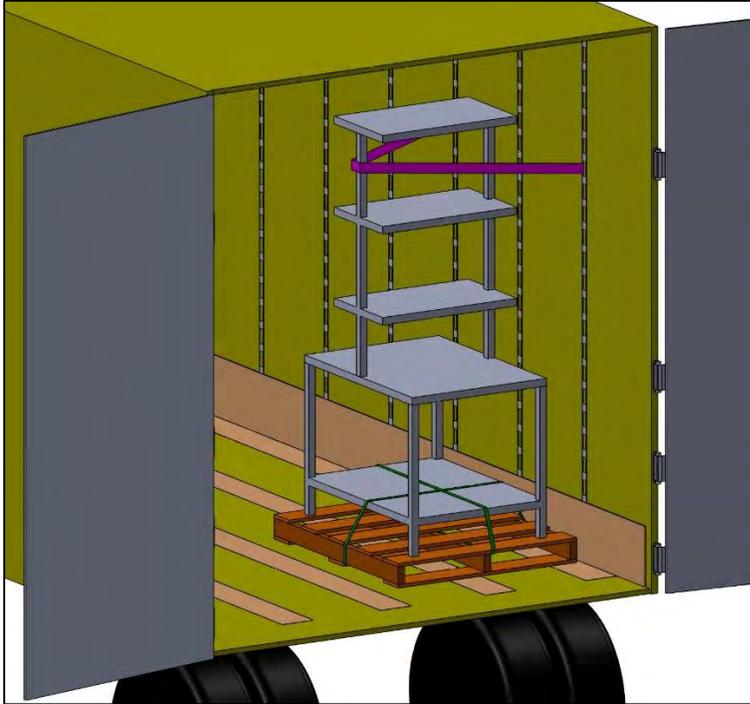
3. Strapping:

- a. Use polyester (PET) strapping, instead of polypropylene (PP), to avoid loosening and stretching of straps over time.
- b. Use at least (2) straps in each direction to prevent fixture from shifting.
- c. Use edge protectors in all locations where straps may damage surface finish damage or tear boxes.
- d. Strap any accessory boxes separately and as low as possible to the fixture.
- e. Protect surface finish of inverted fixture from contact with pallet.

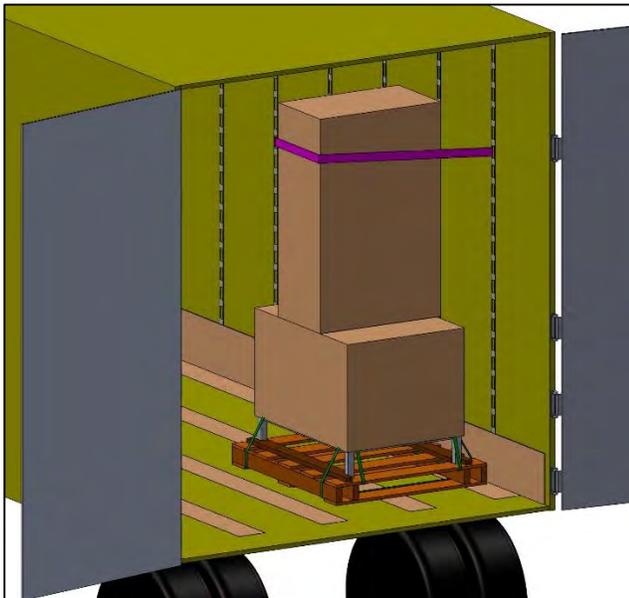


4. Design for In-Transit Securement:

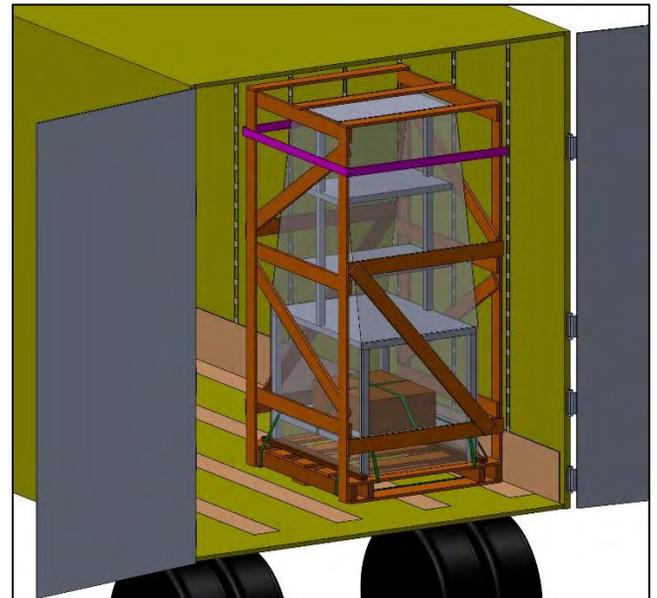
Freight that has height more than two times taller than the smallest base dimension must be packaged so that common securement devices such as strap, ropes and decking beams do not damage the freight's finish or structure during transit.



Strap will prevent tip over but may damage product.



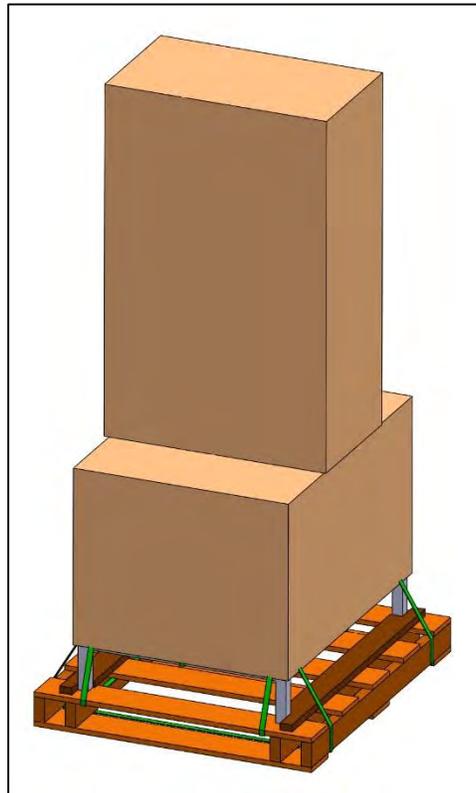
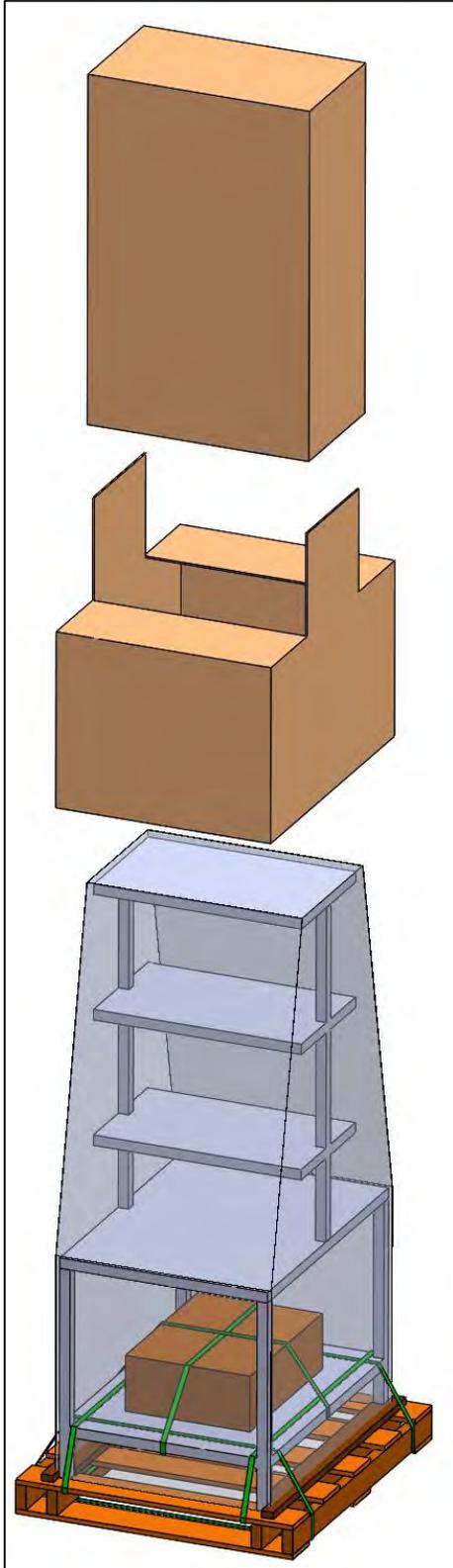
Better: Surface is protected.



Best: Surface and structure protected.

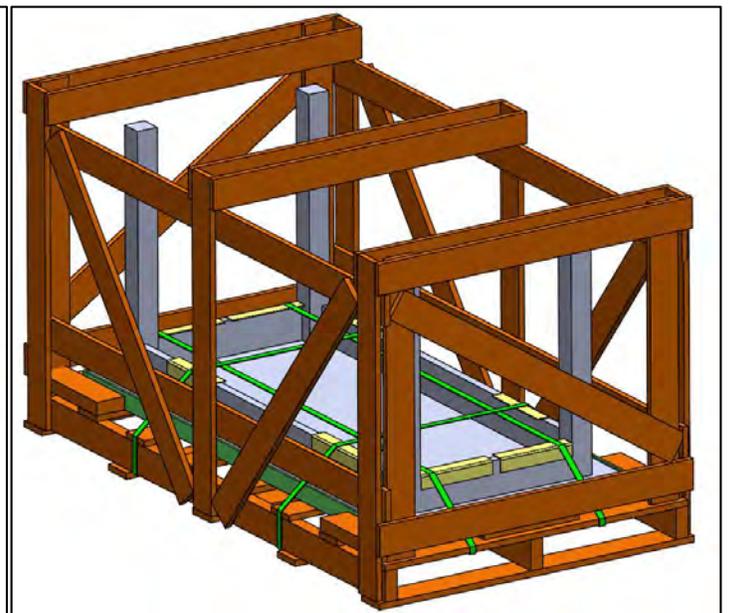
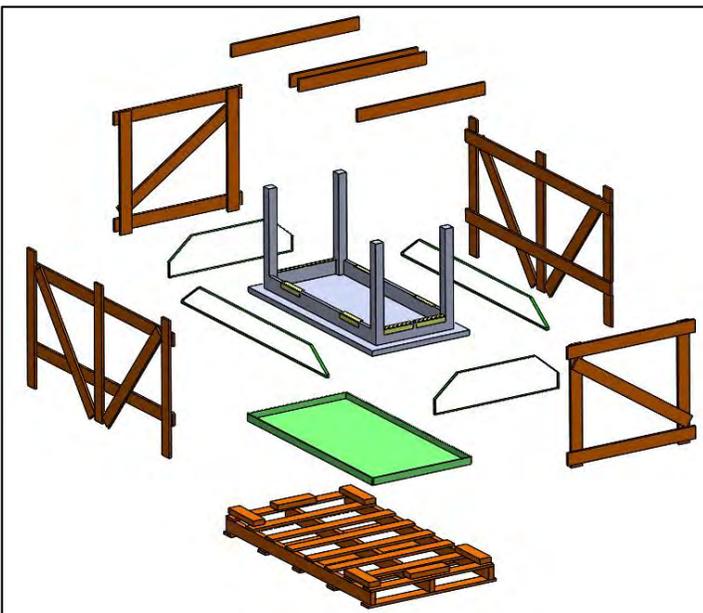
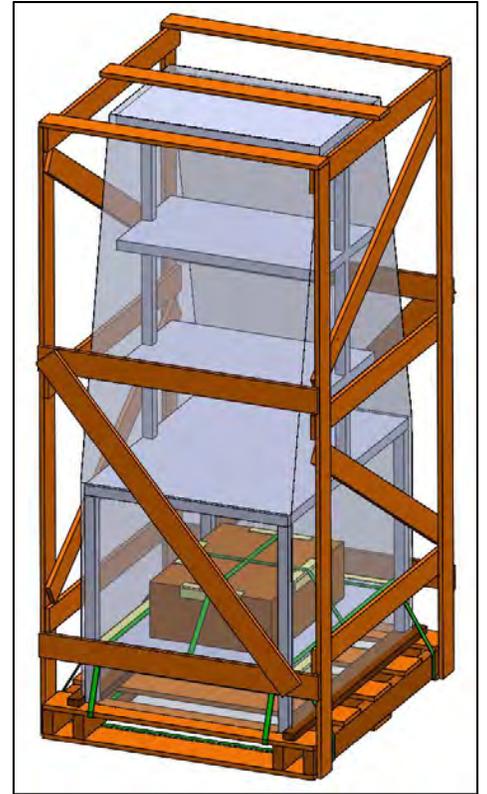
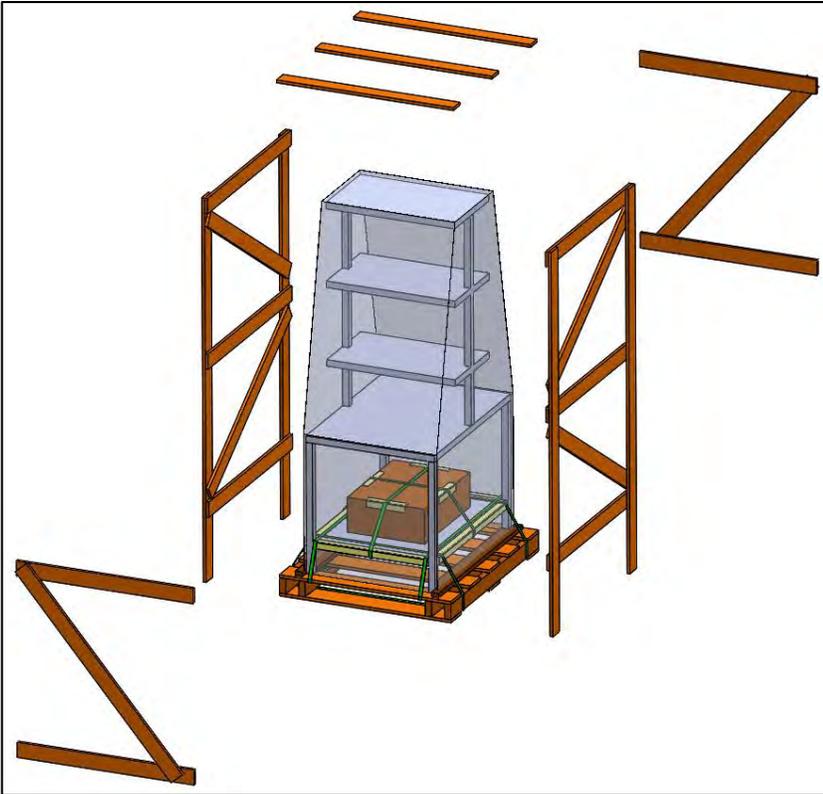
5. Surface Protection:

Cover all critical surfaces to prevent contact damage from other freight or equipment.

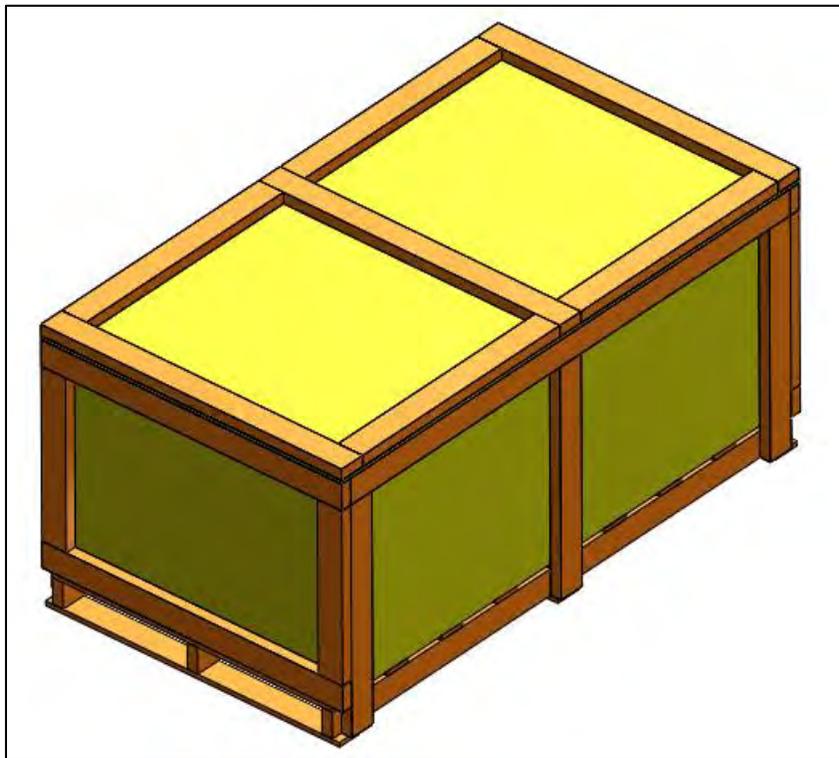
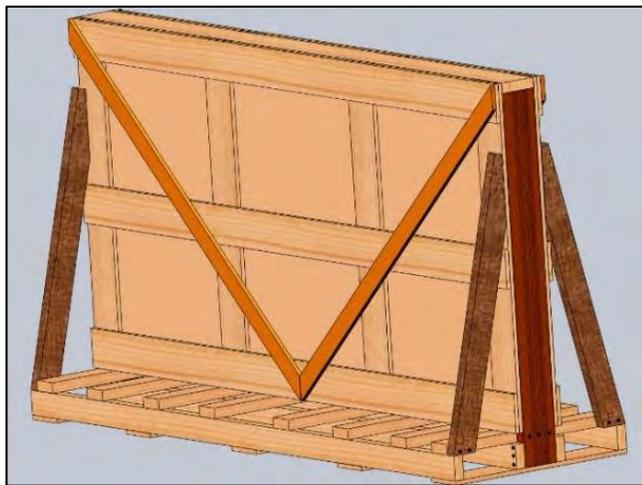
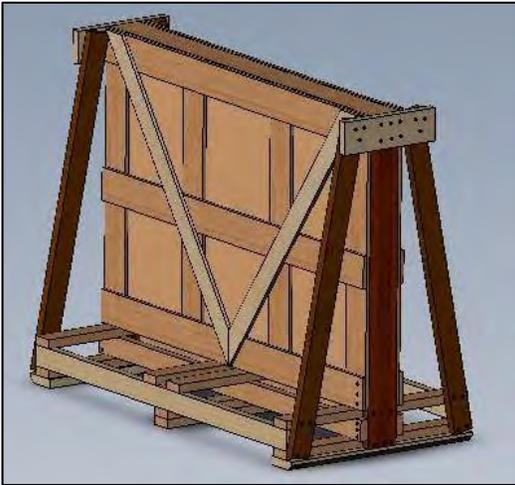
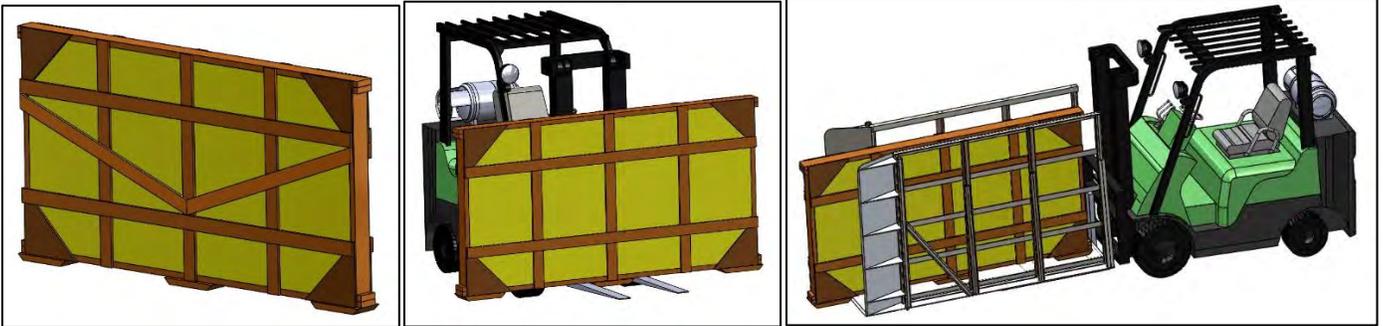


6. Crating:

Use a skeletal crate to protect critical shipments and to comply with National Motor Freight Classification (NMFC) minimum packaging requirements.



7. Additional Examples of Crates meeting NMFC Item 245 Requirements:



8. Additional Resources:

National Motor Freight Classification

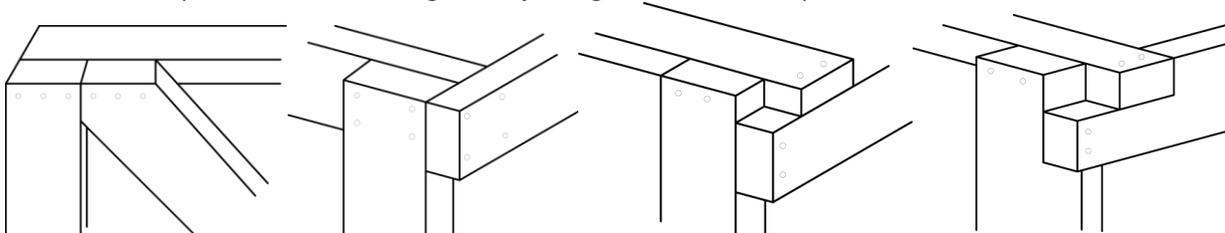
Item 245

DEFINITION OF OR SPECIFICATIONS FOR CRATES

Crates are containers constructed of members made of sawn wood or structural panels or metal with apertures between, or members made of sawn wood or structural panels or metal combined with fiberboard, securely nailed, bolted, screwed, riveted, welded, glued, dovetailed, or wired and stapled together, having sufficient strength to hold the article packed therein so as to protect it from damage when handled or transported with ordinary care. Crates must be constructed so as to protect contents on the sides, ends, tops and bottoms, and in such manner that the crate containing its contents may be taken into or out of the vehicle. Contents must be securely held within crates and no part shall protrude, unless otherwise provided in individual items. Surfaces liable to be damaged must be fully covered and protected. All moveable contents within the crate must be blocked and/or braced to prevent any shifting during transportation. Commodities with legs must be suspended away from all edges of the crate by at least one inch. If the weight of the commodity exceeds 500 pounds, a standard crate must be used instead of a wirebound crate.

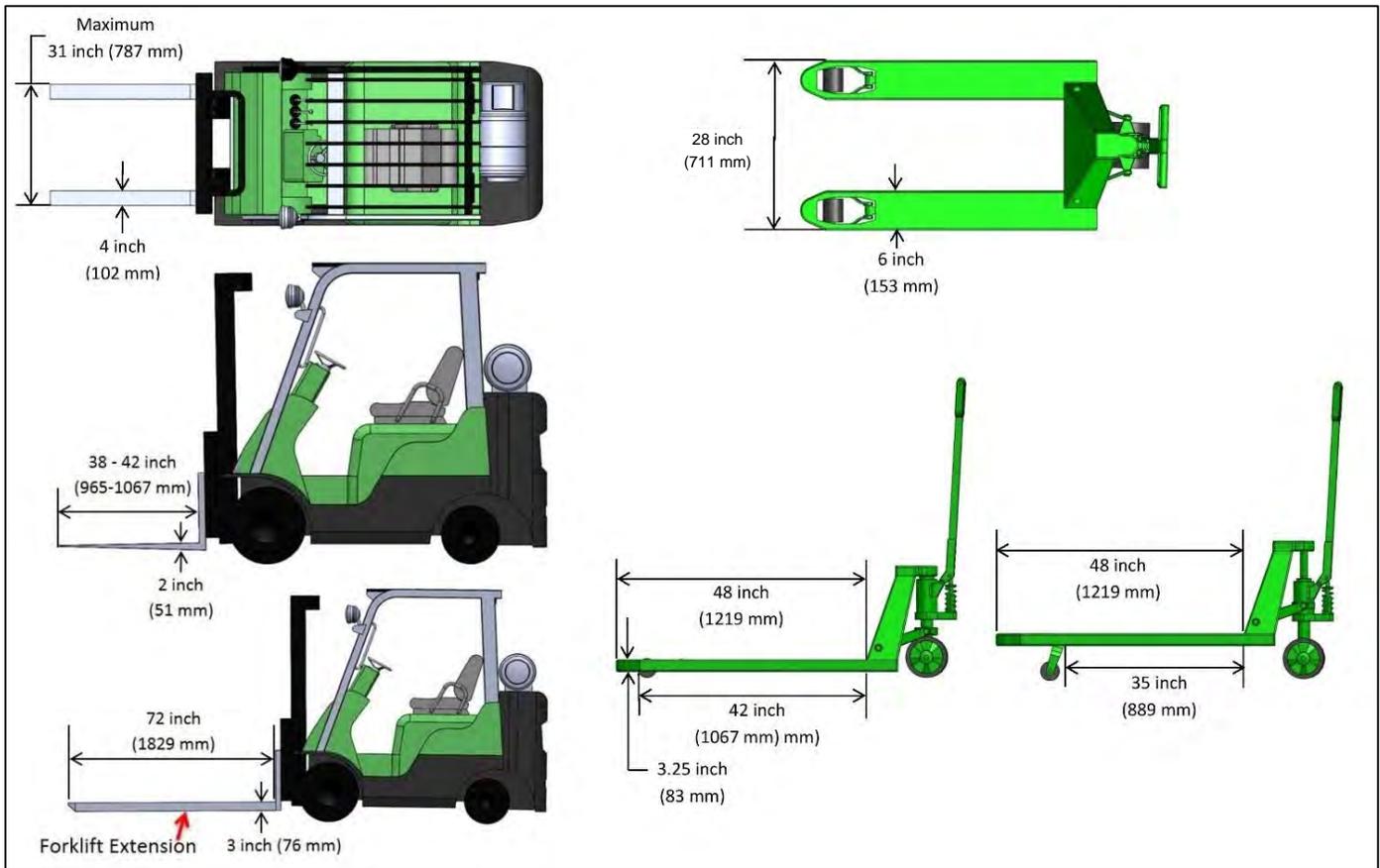
Wooden crates, other than wirebound crates, must be constructed as follows:

- (1) Lumber must be seasoned, reasonably sound, and free from cross grain and knots which would interfere with nailing or stapling, or knots which are greater than $\frac{1}{3}$ the width of the lumber.
- (2) Crates must be constructed with outer framework consisting of upright and horizontal members and with additional diagonal upright and horizontal members where necessary to provide proper strength and rigidity.
- (3) Crates must be constructed with three-way locking corners, where members will be joined with nails or staples driven into side grain of joining members. Examples are shown below:



- (4) All joining crate members must be fastened by double nailing or stapling.
- (5) Crates must be designed and constructed with transverse cross-members at base sufficient in strength to protect underside of article from damage by mechanical handling equipment.
- (6) Structural panels, including plywood, oriented strand board (OSB), and waferboard, must be manufactured with exterior glue.

Common Material Handling Equipment Dimensions



END OF SECTION

		Menomonee Oak	WilsonArt	16007-78												
Wood Tone	Grand Walnut	Grand Walnut	WilsonArt	16024-78	Grand Walnut Grand Walnut	Stevens Flakeboard	W54 16024	Grand Walnut	Omnova	N/A	CMR #91388-50	Grand Walnut	Boltaron	16024-78	Shoes, Cosmetics, Jewelry, Accessories, Bath & Body	
Wood Tone	New Age Oak	New Age Oak	WilsonArt	7938K-78	New Age Oak	Stevens	WA 7938-78	New Age Oak	Omnova	N/A	CMR #126391				CHAPS, Mens, Boys, Misses, Womens, DANA BUCHMAN	
Wood Tone	Oak Sorbonne	Oak Sorbonne	WilsonArt	16014-78	Oak Sorbonne	Flakeboard	16014	Oak Sorbonne	Omnova	N/A	CMR #115982-30				CHAPS, Handbags, Mens Casual & Misses	
Wood Tone	Silver Quill	Silver Quill	WilsonArt	16018-78	Silver Quill Silver Quill	Flakeboard Stevens	16018 W73	Silver Quill	Omnova	N/A	CMR #115691-20	Silver Quill	Boltaron	16018-78	Intimates/Hosiery	
Wood Tone	Wild Cherry	Wild Cherry	WilsonArt	7054-78	Wild Cherry	Flakeboard	7054								Mens: Finishings & Basics	
Wood Tone	Spa Oak	Spa Oak	WilsonArt	16034K-78				Spa Oak	Omnova	N/A	CMR #179166-30				Bath Shop	
Wood Tone	King's Pine Light							King's Pine Light	Omnova	0.012	E-741 (6)				Young Mens: LEVI'S	
Wood Tone	Swiss Elm							429 Swiss Elm Warm	Renolit						AMAZON Smart Home Experience	
Wood Tone	Rattan Cane	Rattan Cane	Formica	3699-58											Young Mens	
Wood Tone	Shaker Cherry	Shaker Cherry (fine grain) Shaker Cherry (textured gloss) Shaker Cherry	WilsonArt WilsonArt WilsonArt	7935-78 7935-07 7935K-60				Shaker Cherry Shaker Cherry	Omnova Omnova	N/A N/A	N/A E-745 (10)	Shaker Cherry	Kydex	0.036	XDWG P-8	Mens Collection & Mens: SONOMA Great Room: Lounge Great Room: Training Room
Wood Tone	Wenge Mahogany	Wenge Mahogany Wenge Mahogany	WilsonArt Stevens	16015-78 L64682 (579-PL)	Wenge Mahogany Wenge Mahogany	Flakeboard Stevens	16015 L64682	Wenge Mahogany	Omnova	N/A	CMR #115690-10	Wenge Mahogany	Boltaron	N/A	16015-77	Misses Contemporary: APT9
Wood Tone	Wild Apple	Wild Apple	WilsonArt	16017-78	Wild Apple	Flakeboard	16017	Wild Apple	Omnova	0.012	E-745 (10)	Wild Apple	Boltaron	N/A	16017-78	Jewelry Showcase, Dec. Home, Home Wall Hutch, Hard T&T, SVVW Strikepoints (Intimate, Misses Contemporary, Shoes, Accessories & Bed), Shoes: Mens Strikepoint and A-Focal, Cashwrap & Customer Service, & Beauty/Cosmetics
Wood Tone	Dark Mahogany	Dark Mahogany	Pionite	WY091Z											Restroom: Cabinetry	
Wood Tone	Sheffield Cherry	Sheffield Cherry Yorkshire Cherry	Nevamar Pionite	WC0070 E WC-411-N											Cashwrap (w/ Honey Maple) & Customer Service (w/ Honey Maple)	
Wood Tone	Saarinen Walnut	Saarinen Walnut						Saarinen Walnut	Omnova	0.012	535683				Scott Living	
Wood Tone	Wenge Mahogany Zebrano	Wenge Mahogany Zebrano	WilsonArt	VG-16036	Wenge Mahogany Zebrano	Stevens	23023 - L 131912								Misses: Rock & Republic	
Wood Tone	Shaker Cherry Zebrano	Shaker Cherry Zebrano	WilsonArt	VG-16035	Shaker Cherry Zebrano	Stevens	23023 - L 131908								Mens: Rock & Republic	
Wood Tone	Asian Night	Asian Night	WilsonArt	7949K-18	Asian Night Grigio Notte	WilsonArt Stevens	7949K-18 G86	Asian Night	Omnova	0.012	E-793 (25)				Table & Tower, 35K, Mens & Misses: COLUMBIA	
Wood Tone	Smokey Brown Pear	Smokey Brown Pear	Formica	5488-NT				Smokey Brown Pear	Omnova	0.012	E-745 (7)				Jewelry: Reinvent	
Wood Tone	Silver Riftwood	Silver Riftwood	Formica	6413-NG				Silver Riftwood	Omnova	0.012	E-0621 (10)				Men's Dress	
Wood Tone	Rift Oak Natural							Rift Oak Natural	Omnova	0.012	534135				New Store Growth Strategy: Walls	

Powder Coats

Color/Finish Code	Name	MFR	MFR Part #	SALES AREA / APPLICATION
K-800 (K-02)	Frosty White Frosty White Frosty White RAL 9016, Smooth Matte 20% (Frosty White)	Pro-Tec TCI Sherwin Williams TIGER Drylac	HS112W137 6410-90214 HWS2-90042 09/13120	Juniors, Kids -Boys & Girls, Toys, Infants, Home -Luggage, 35K: Intimates & Shoes
K-801 (K-05)	Satin White (Frost White)	TCI	8400-9053	Beauty
K-802 (K-203)	Dark Secret (Black Matte) Dark Secret (Black Matte) Dark Secret (Black Matte) Dark Secret (Black Matte)	TCI JiangSu Surpass Jingyuan Taicang Huaqi	6020-72643 HGS38 (TZEN 3383A) W5289 13862380383	Beauty
K-803 (K-301)	Faux Stainless (Satin Stainless) Faux Stainless (Satin Stainless) Faux Stainless (Satin Stainless)	Akzo Nobel Jingyuan Akzo Nobel	EW-121QF B98666 ESEW-5212B-C	Shoes
K-804 (K-304)	Wrought Iron Shark Gray	Kwo Lin Sherwin Williams	PEWTER-K-9713 GA PEWTER-EBF8-C002	Shoes: Athletic (w/ satin stainless), Cosmetics, Bath & Body
K-805 (K-401)	Wildcard Orange	TIGER Drylac	RAL-2003D	Kids: A-Focal
K-806	IZOD Red	Innovative Powder Coatings	RD1404181H3	Izod
K-807 (K-505)	Pure White (Portuna1, Zebrano White, Linea Blanca)	RAL	9010	AOI: Launch Pad, Misses: Mudd, Madden Girl
K-808 (K-603)	Summit Ash (Grand Walnut)	AkzoNobel	30-8713	Shoes, Beauty, Jewelry, Accessories, Bath & Body
K-809 (K-706)	Weathered Brown (Wild Apple) Weathered Brown (Wild Apple) Walnut (Wild Apple)	AkzoNobel AkzoNobel AkzoNobel	23-9189 APR 23-9189 20-8002HY	Jewelry Showcase, Dec. Home, Home Wall Hutch, Hard T&T, SVVW Strikepoints (Intimate, Misses Contemporary, Shoes, Accessories & Bed), Shoes: Mens Strikepoint and A- Focal, Cashwrap & Customer
K-810 (K-709, K-710)	Black Wrinkle(Wenge Mahogany Zebrano or Shaker Cherry Zebrano) Black Wrinkle(Wenge Mahogany Zebrano or Shaker Cherry Zebrano) Black Wrinkle(Wenge Mahogany Zebrano or Shaker Cherry Zebrano)	DuPont Jingyuan Guoli	PC041 GFB-600-W3 H95079 C 8011HW	Misses: Rock & Republic

K-814	Horizon White	Tiger Drylac	39/10160 (Gloss Level 90 +/-5)	Under Armour
K-815	Red	Tiger Drylac	49/31040	Under Armour
K-816	Champagne	Sherwin-Williams	HSM4-60001	Under Armour
	Bengal Dark Gray	Tiger Drylac	49-77518	Under Armour
K-817	Matte Clear Coat	Jingyuan	CLOC03	Levi's
	Super Wet White (Designer White)	Sherwin Williams	HWS8-60002-C50	New Store Growth Strategy
	Shark Gray (Traffic Gray)	RAL	7043 HAA HFH-R19-S7	New Store Growth Strategy
	Tan (PMS 2310C)	American Powder Coatings Inc.	T8-BG (BN140-5)	New Store Growth Strategy
	Sephora Satin Black	Tiger Drylac Matthews (Black)	009/80943 50A9295P - PP0129	Sephora

PAINT PENS

PAINT PENS			203684	203685	203686	
Color	Department	Manufacturer	FRM-PAINTPENKT.1	FRM-PAINTPENKT.2	NS-PAINTPENKT	Samples Approved
Alabaster	Cosmetics / Jewelry / Bath & Body	WilsonArt D431-60	1			
Ama Elm (Swiss Elm Warm)	Amazon	Omnova 537608				
Asian Night / Gregio Notte	Interrupters (Home, Apparel Cages), Wall basedecks	WilsonArt 7949K-18	1		2	
Blanca Elm	Elizabeth & James	Omnova 529730				
Dark Mahogany = NEW Empire Mahogany	Restroom Cabinetry	Wilsonart 7122K-07 / Pionite WY091Z	1	1	1	X
Designer White	Launch Pad, Trend Statement, Juniors - K/Lab & Womens - Popsugar	WilsonArt D354-60 / Omnova 509996	1	1	1	X
Designer White (Super Wet White)	Growth Strategy Format: Active Walls / Fitting Room	Sherwin Williams HWS8-60002-C50			TBD	X
Ebony Recon	CS / CW	WilsonArt 7797-38	1	1		X
Fashion Grey	CS (Pre Innovations) / Young Mens / Boys / Shoes	WilsonArt D381-60	1			
Faux Stainless	Shoes / Home Hangfolds (2 in 1 Pen)	WilsonArt 4830-07	1		1	
Faux Stainless Steel	JLO (Bottle/Brush)	JLO Silver Vein	1	1		
Frosty White	Junior / Boys / Girls / Toys / Infants & Luggage 35K: Intimates & Shoes, Mens & Misses	WilsonArt 1573-60	2		3	
Grand Walnut	Shoes / Jewelry / Accessories / Bath & Body	WilsonArt 16204-78 / Omnova 538679	1			
High Gloss Black	Beauty / Cosmetics	Omnova E-11	1		1	
Honeytone Maple	CW / CS	Nevamar WM0041	2			
Kings Pine Light	Young Mens: Levi's	Omnova 834938	1	1	1	X
Light Sorano Oak	Active / Wellness: Adidas	Omnova E-11	1	1	1	X
Luxe Concrete Stadium	Adidas	Omnova 536264	1	1		X
Manitoba Maple	Infants, Toys & Maternity	Wilson Art 7911-60	1	1		X
Matte Black	Beauty, Shoes, R&R	Wilson Art 1595-60	2		1	
Natural(Bamboo)Cane	Juniors / Boys / Girls	Formica 6930-NT	2			
Neutral Putty		Zar Latex	1		1	
New Age Oak	Dana Buchman / Chaps Mens / Boys / Misses & Womens	WilsonArt 7938K-78	1			

Oak Sorbonne = NEW Castle Oak	Chaps Handbags, Mens Casual & Misses	WilsonArt 16014-78 / WilsonArt 7928-38	1			
Pepperdust	CW / CS (Pre Innovations)	WilsonArt D327-60	1			
Plywood	Womens: Outfit Bar	Omnova 533662	1	1		X
Portuna	In-Aisle Launch Pad, Misses: MUDD, MADDEN GIL	Renolit Coraven 3250001-154 / Omnova 534864	1	1	2	X
Rattan Cane	Young Mens	Formica 3699-58	1			
Saarinen Walnut	Home: Scott Living	Omnova 538963	1	1	1	X
Shaker Cherry	CW / CS / Mens	WilsonArt 7935-78	2			
Shark Gray (Traffic Gray)	Growth Strategy Format: Active Walls / Fitting Room / Shoe Bench	RAL 7043			TBD	X
Silver Riftwood	Mens: Dress Furnishing Test	Formica 6413-NG K-713	1	1		X
Silver Quill	Intimate / Hosiery	WilsonArt 16018-78	1			
Smokey Brown Pear	Jewelry	Formica 5488-NT	1		3	
Tan	Growth Strategy Format: Home Walls / Apparel Walls	Tan PMS 2310C APC T8-BG (BN140-5)			TBD	X
Wenge Mahogany	Misses Contemporary	WilsonArt 16015-78	2			
White Ash	Mens: IZOD	Omnova E11	1	1		X
Wild Apple	Jewelry / SVVW / Home / Mens Shoes	WilsonArt 16017-78	1			
Wild Cherry	Mens	WilsonArt 7054-78	1			
Wrought Iron	Shoes / Cosmetics / Under Armour	Nevamar S6054T	1		1	
			41	13	20	

2022 Add - New Store Growth Strategy Format (#1564)

Seam Fill

Color	Department	Manufacturer	Tube #	FRM-SEAMFILLKT.1 (203671)	FRM-SEAMFILLKT.2 (203680)	NS-SEAMFILLKT (203672)	Samples Approved
Alabaster	Cosmetics / Jewelry	WilsonArt D431-60	D-431-60	1			
Ama Elm (Swiss Elm Warm)	Amazon	Omnova 537608					
Asian Night / Gregio Notte	Interrupters (Home / Apparel Cages) / Wall basedecks	WilsonArt 7949K-18	7949	1	1	1	X
Blanca Elm	Elizabeth & James	Omnova 529730					
Dark Mahogany = NEW Empire Mahogany	Restroom Cabinetry	Pionite WY091Z / Wilsonarrt 7122K-07	7122	1	1	1	X
Designer White	Launch Pad, Trend Statement, Juniors - K/Lab & Womens - Popsugar	WilsonArt D354-60 / Omnova 509996	D-354	1	1		X
Ebony Recon	CS / CW	WilsonArt 7797-38	7997	1	1		X
Fashion Grey	CS (Pre Innovations) / Young Mens / Boys / Shoes	WilsonArt D381-60	D-381-60	1			
Frosty White	Junior / Boys / Girls / Toys / Infants & Luggage	WilsonArt 1573-60	1573-60	2		2	
Grand Walnut	Shoes / Cosmetics / Jewelry / Accessories / Bath & Body	WilsonArt 16024-78 / Omnova 538679	16024-78	1			
Gray Matrix	CW / CS (Pre Innovations)	Nevamar MR6001	MR6001	1			
Honeytone Maple	CW / CS	Nevamar WM0041	WM0041	3			
Ivory Rose	Intimate / Hosiery	WilsonArt D308	D-308	1			
Kings Pine Light	Young Mens: Levi's	Omnova 834938	OB1172R	1	1		X
Light Sorano Oak	Active / Wellness: Adidas	Omnova E-11	OB1173R	1	1		X
Luxe Concrete Stadium	Adidas	Omnova 536264	OB1175	1	1		X
Manitoba Maple	Infants, Toys & Maternity	WilsonArt 7911-60	7911	1	1		X
Matte Black	Beauty, Shoes, R&R	WilsonArt 1595-60	1595-60	2		1	
Natural(Bamboo)Cane	Juniors / Boys / Girls	Formica 6930-NT	OB1173	2	2		X
New Age Oak	Dana Buchman / Chaps Mens, Boys, Misses & Womens	WilsonArt 7938-78	7938-78	1			
Oak Sorbonne = NEW Castle Oak	Chaps Handbags, Mens Casual & Misses	WilsonArt 16014-78 / WilsonArt 7928-38	16014-78	1			
Pepperdust	CW / CS (Pre Innovations)	WilsonArt D327	D-327	1			
Plywood	Womens: Outfit Bar	Omnova 533662	OB1174	1	1		X
Portuna / Linea Blanca	In-Aisle Launch Pad, Misses: MUDD, MADDEN GIL	Renolit Coraven 3250001- 154 / Omnova 534864	OB1176R	1	1	2	X
Rattan Cane	Young Mens	Formica 3699	3699	1			
Saarinen Walnut	Home: Scott Living	Omnova 538963	OB1177	1	1		X
Shaker Cherry	CW / CS / Mens	WilsonArt 7935-78	7935-78	3			
Shaker Cherry Sebrano	Mens R&R	WilsonArt 16035	16035	1			
Silver Quill	Intimate / Hosiery	WilsonArt 16018-78	16018-78	1			
Silver Riftwood	Mens: Dress Furnishing Test	Formica 6413-NG K-713	6413	1	1		X
Smokey Brown Pear	Jewelry	Formica 5488-NT	5488-NT	1	1	2	X
Wenge Mahogany	Misses Contemporary	WilsonArt 16015-78	16015-78	2			
Wenge Mahogany Zebrano	Misses R&R	WilsonArt 16036	16036	1			
White Ash	Mens: IZOD	Omnova E-11	OB1178	1	1		X
Wild Apple	Jewelry / SVVW / Home / Mens Shoes	WilsonArt 16017-78	16017-78	1	1		
Wild Cherry	Mens	WilsonArt 7054	7054	1			
Wrought Iron	Shoes / Cosmetics / Under Armour	Nevamar S6054T	S6054	1		1	X
				43	17	10	

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FF&E – QA/QC SPECIFICATIONS

July 2024

SECTION 05 05 13

POWDER COAT PAINTING

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 01 40 00 – Sustainable Design Requirements; for Low Emitting Materials – Limits.
- B. Section 05 00 00 – Powder Coating Schedules

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Approved Domestic Manufacturers: Reference Section 05 00 00 – Powder Coating Schedules.
- B. Approved Foreign Manufacturers: Reference Section 05 00 00 – Powder Coating Schedules.

2.02 MATERIALS

- A. Powder: ASTM D5965, C – Standard Test Methods for Specific Gravity of Coating Powders and ASTM D3451, 13 – Standard Guide for Testing Coating Powders and Powder Coatings.
- B. Coating:
 - 1. Color: Reference Section 05 00 00 – Powder Coating Schedules.
 - 2. Film/Coating Thickness: ASTM D7091 – Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals.
 - a. Thickness: 60 microns (~2.0 mils, .002-inches) to 80 microns (~3.0 mils, .003-inches).
 - 3. Hardness Grade: > 100 inch-pounds.
 - 4. Finish: PCI Powder Smoothness Number 6 or 7.
 - 5. Physical Properties:
 - a. Adhesion: ASTM D3359 - Standard Test Methods for Measuring Adhesion by

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Tape Test.

1) Test Method: B.

2) Classification: 5B.

b. Cracking Resistance: ASTM D522 – Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings.

c. Pencil Hardness: ASTM D3363 – Standard Test Method for Film Hardness by Pencil Test.

1) Scale: Between F and H.

d. Mar Resistance: ASTM D5178 – Standard Test Method for Mar Resistance of Organic Coatings.

e. Indentation Resistance: ISO 218 – Buchholz Indentation Test.

f. Impact Resistance: ASTM D6905 – Standard Test Method for Impact Flexibility of Organic Coatings.

1) Direct Impact: 120 inch - pounds.

2) Reverse Impact: 80 inch - pounds.

3) Fracturing: None.

g. Abrasion Resistance: ASTM D4060 – Standard Test Method for Abrasion Resistance of organic Coatings by the Taber Abraser.

1) Use a CS-10 wheel at 1,000 revolutions.

2.03 FABRICATION

A. Neither seams nor sanding and grinding marks shall be visible after powder coat painting.

B. All threads shall be free of powder coat paint.

PART 3 EXECUTION – NOT USED

END OF SECTION

KOHL'S Department Stores, Inc.

FF&E – QA/QC SPECIFICATIONS

July 2024

SECTION 05 50 00

METAL FABRICATION

PART 1 GENERAL

1.01 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Stainless Steel: ASTM A276 – Standard Specification for Stainless Steel Bars and Shapes; Annealed, Type 304 (UNS No. S30400), cold-rolled.
- B. Steel Tubing: ASTM A513 – Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing; Grade MT 1020 or equivalent, Type 2, cold-rolled.
- C. Sheet and Coil Steel: ASTM A1008 – Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Alloy with Improved Formability, Solution Hardened, and Baked Hardenable; Material Designation CS, Type B, Matt finish, cold-rolled pickled and oiled.
- D. Steel Plates and Tubing: SAE J403, Grade 1025 (SAE-1025) or equivalent; hot-rolled.
 - 1. Comparative Equivalents: Based on chemical composition.
 - a. ASME SA-29, Grade 1025.
 - b. ASTM A29, Grade 1025.
 - c. ASTM A576, Grade 1025.
 - d. EN 10016-2, C26D.
 - e. EN 10016-4, C26D2.
 - f. GB 13791, Grade 25.
 - g. GB/T 3078, Grade 25.
 - h. GB/T 699, Grade 25.
 - i. ISO 683-1, Grade C 25, C 25 E4 or Grade C 25 M2.
 - j. JIS G 4051, Symbol S 25 C.
- E. Steel Support Brackets: ASTM A1011 – Standard Specification for Steel, Sheet and Strip,

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Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High Strength Low-Alloy with Improved Formability, and Ultra-High Strength; HSLAS (high-strength low-alloy steel), HRP&O (hot-rolled pickled and oiled), Grade 55, Class 2, 0.20 Carbon maximum.

- a. Comparative Equivalent: Based on mechanical properties.
 - 1) GB/T 1591 – High Strength Low-Alloy Structural Steels, Grade Q345.
2. Support Brackets:
 - a. 16 inch or Shorter Knife Brackets: 13 gauge (.0897-inch) minimum.
 - b. 22 inch or Longer Knife Brackets: 11 gauge (.1196-inch) minimum.

2.02 MISCELLANEOUS MATERIALS

- A. Mechanical Fasteners: AISI Type 501, or ASTM A193 (Grade B5), or ISO 3506 (Grade A2).

2.03 FABRICATION

- A. Tubing: OD flash removed; ID will be flash removed (unless noted otherwise).
- B. Finishes, Edge: No sharp edges shall be permitted that could cause a cut or other injury.
 1. Metal Edges: Relieved.
 2. Seams: Neither Lips nor joints are permitted.
 3. Sheet Metal Edges: Hemmed to inside of fixture and not visible to the customer.
 4. Toe Kick Edges: Eased.
- C. Weld Appearance: All visible welds shall be ground flush, smooth and even, unless otherwise approved by Kohl's.
- D. Welding Methodology and Placement:
 1. GMAW (Gas Metal Arc Welding), aka MIG Welding: Used for all non-customer facing applications.
 2. GTAW (Gas Tungsten Arc Welding), aka TIG Welding: Used for all customer facing applications.
 - a. Fully welded to all surface connections.
 - b. Filled and ground smooth prior to finishing.
 3. Weld Lengths: Equal to 100 percent of joint area.
 4. Bead Spot Welds: Used for large areas involving sheet steel connections.

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- a. Spot Weld Intervals: Approval required from Kohl's prior to commencement of fabrication.
5. Welding Gases:
 - a. Argon or equal quality welding gas is preferred for both stainless steel and cold rolled materials.
 - b. Use welding gases that will optimize the physical appearance of welds after the plating process has been completed.

2.04 FINISHES

A. Surface Preparation

1. Materials shall have surface characteristics suitable for powder coat painting or plating.

B. Polished Finishes: ASTM A480 – Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.

1. Finishes: All polished surfaces shall be smooth and uniform in appearance.
 - a. Polished, Number 4 – Brushed, 180 grit abrasive.
 - b. Polished, Number 6 – Satin Finish, 220 – 240 grit abrasive.
 - c. Polished, Number 8 – Mirror Finish, 400 grit abrasive.

C. Plating:

1. Nickel Plating: SAE-AMS QQ-N-290B "Nickel Plating (Electrodeposited)".
 - a. Classes:
 - 1) Class 1 – Corrosion protective plating.
 - b. Plated Finish: Smooth and uniform in appearance.
2. Chrome Plating: SAE-AMS 2460A "Chromium Plating (Electrodeposited)".
 - a. Classes:
 - 1) Class 1 – Corrosion protective plating.
 - b. Plated Finish: Smooth and uniform in appearance.
3. Lacquered Zinc Plating: NOT permitted without Kohl's approval.

2.05 SOURCE QUALITY CONTROL - WELDING

- A. Weld Quality: AWS Welding Handbook, Volume 1, Chapter 13 – Weld Quality.

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1. Welding: Level of discoloration around welds should be minimal and must be approved prior to commencement of fabrication
- B. Nondestructive Examination (NDE): AWS Welding Handbook, Volume 1, Chapter 14 – Welding Inspection and Nondestructive Examination.
 1. Visual Inspection: Attributes measured or detected.
 - a. Surface Anomalies: Scratches, gouges, crazing, pitting, inclusions, and imbedded foreign materials are NOT permitted.
 - b. Surface Connection Anomalies: Cracks, porosity, pinholes, laps, seams, folds, and inclusions are NOT permitted.
 - c. Internal Anomalies: Cracks, separations, hot tears, cold shuts, shrinkage, voids, lack of fusion, pores, cavities, delamination, disbands, poor bonds, inclusions, and segregations are NOT permitted.

PART 3 EXECUTION – NOT USED

END OF SECTION

KOHL'S Department Stores, Inc.

FF&E – QA/QC SPECIFICATIONS

July 2024

SECTION 06 40 00

MEDIUM DENSITY FIBERBOARD

PART 1 GENERAL

1.01 SYSTEM DESCRIPTION

- A. Application: All vertical or horizontal weight bearing surfaces.

1.02 RELATED SECTIONS

- A. Section 01 40 00 – Sustainable Design Requirements; for Low Emitting Materials - Limits and NAUF resins.

1.03 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Medium Density Fiberboard: ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; Grades 140 to 150 minimum, when determined in accordance with ASTM D1037 – Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.

PART 3 EXECUTION – NOT USED

END OF SECTION

KOHL'S Department Stores, Inc.

FF&E – QA/QC SPECIFICATIONS

July 2024

SECTION 06 40 10

PARTICLE BOARD

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 01 40 00 – Sustainable Design Requirements; for Low Emitting Materials - Limits and NAUF resins.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Particle Board: ANSI 208.1 – Particle Board Standard; Industrial Grade M-2.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 06 40 20

PLYWOOD

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 01 40 00 – Sustainable Design Requirements; for Low Emitting Materials – Limits and NAUF resins.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Plywood: Voluntary Product Standard PS 1 (ANSI A-199.1) – Structural Plywood.
 - 1. Classification: Exposure 1.
 - 2. Surface: Sanded 2 sides.

PART 3 EXECUTION – NOT USED

END OF SECTION

KOHL'S Department Stores, Inc.

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SECTION 06 40 30

HIGH DENSITY FIBERBOARD

PART 1 GENERAL

1.01 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. High Density Fiberboard: ANSI A135.4 – Basic Hardboard and in accordance with ASTM D1037 – Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.

PART 3 EXECUTION – NOT USED

END OF SECTION

KOHL'S Department Stores, Inc.

FF&E – QA/QC SPECIFICATIONS

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SECTION 06 60 10

ACRYLIC

PART 1 GENERAL

1.01 SUMMARY

- A. Provide acrylic material that best fits the application, design concept, and general requirements.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. All acrylic material of each Category (cell-cast or extruded) used shall be the product of a single manufacturer.

2.02 MATERIALS

- A. Acrylic Material: Cell-Cast or Extruded; ASTM D4802 – Standard Specification for Poly (Methyl Methacrylate) Acrylic (PMMA) Plastic Sheet.

2.03 FABRICATION

- A. Visible Edges: Router, polished, or bull nosed with additional flame polishing if necessary; cutting-marks shall NOT be visible.

1. NO deviations permitted, unless noted otherwise or by permission of Kohl's.

- B. Concealed Edges: Saw-cut with all sharp edges removed.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 06 60 20

THERMOPLASTIC RESIN MATERIAL

PART 1 GENERAL

1.01 SUMMARY

- A. Provide Standard Resin Material that best fits the application, design concept, and general requirements.
- B. Section Includes:
 - 1. Polycarbonate
 - 2. Polyethylene
 - 3. Polystyrene
 - 4. Polyvinyl Chloride.
 - 5. Acrylonitrile-Butadiene-Styrene.
- C. Related Sections:
 - 1. Section 01 00 00 – General Requirements.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. All materials used shall be the product of a single manufacturer.

2.02 POLYCARBONATE

- A. Polycarbonate Material: ASTM D3935 – Standard Specification for Polycarbonate (PC) Unfilled and Reinforced Material.

2.03 POLYETHYLENE

- A. Polyethylene Material: ASTM D4976 – Standard Specification for Polyethylene (PE) Plastics Molding and Extrusion Materials.
- B. Polyethylene Types:
 - 1. Polyethylene Terephthalate Glycol (PET-G)

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2. High-Density Polyethylene (HDPE).

2.04 POLYSTYRENE

- A. Polystyrene Material: ASTM D4549 – Standard Classification System and Basis for Specification for Polystyrene and Rubber-Modified Polystyrene Molding and Extrusion Materials (PS).
- B. Polystyrene Types:
 1. General Purpose Polystyrene (GPPS)
 2. Expanded Polystyrene (EPS)
 3. High Impact Polystyrene (HIPS)
 4. Extruded Polystyrene (XPS).

2.05 POLYVINYL CHLORIDE

- A. Polyvinyl Chloride Material: ASTM D1784 – Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
- B. Polyvinyl Chloride Types:
 1. Expanded PVC (EPVC).

2.06 ACRYLONITRILE-BUTADIENE-STYRENE

- A. Acrylonitrile-Butadiene-Styrene Material: ASTM D4673 – Standard Classification System for Acrylonitrile-Butadiene-Styrene (ABS) Plastics and Alloys Molding and Extrusion Materials.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 08 81 00

GLASS

PART 1 GENERAL

1.01 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Tempered Glass: ASTM C1036 – Standard Specification for Flat Glass (supersedes FS DD-G-451D); Quality – Q3 and ASTM C1048 – Standard Specification for Heat-Treated Flat Glass — Kind HS, Kind FT Coated and Uncoated Glass (supersedes FS DD-G-1403B and C); Condition A – Uncoated Surfaces and Kind FT (fully tempered).
 - 1. Safety Criteria: CPSC 16 CFR 1201 – Safety Standard for Architectural Glazing Materials, Categories 1 and 3 and ANSI Z97.1 – Safety Performance Specifications and Methods of Test for Safety Glazing Materials Used in Buildings, and qualifies as the glazing material for use in hazardous locations; affix permanent logo in corner indicating its compliance with these standards.

2.02 FABRICATION

- A. Shelves: Tempered glass.
 - 1. Edges shall be rounded and smooth, unless otherwise specified by Kohl's.
 - 2. No visible bubbles or imperfections shall be permitted.
 - 3. Shall have 3030 coloration (green).

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 08 83 00

GLASS MIRRORS

PART 1 GENERAL

1.01 SUMMARY

- A. Provide Glass Mirrors that best fits the application, design concept, and general requirements.
- B. Related Sections:
 - 1. Section 08 81 00 – Glass; for Tempered Safety Glass requirements.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Glass Mirrors: Tempered safety type glass coated on one surface with silver coating, copper protective coating, and mirror backing paint.
 - 1. Silver coating shall be highly adhesive pure silver coating of a thickness which shall provide reflectivity of 83 percent or more of incident light when viewed through 1/4-inch thick glass, and shall be free of pinholes or other defects.
 - 2. Copper protective coating shall be pure bright reflective copper, homogeneous without sludge, pinholes or other defects, and shall be of proper thickness to prevent "adhesion pull" by mirror backing paint.
 - 3. Mirror backing paint shall consist of two coats of special scratch and abrasion-resistant paint, and shall be baked in uniform thickness to provide a protection for silver and copper coatings which will permit normal cutting and edge fabrication.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 09 91 00

PAINTING

PART 1 GENERAL

1.01 SUMMARY OF WORK

A. Furnish Paint and Primer as specified, complete. Include without limitation:

1. A-Focal Walls.
2. Modular Walls.
3. Trim.

1.02 RELATED SECTIONS

- A. Section 01 40 00 – Sustainable Design Requirements; for Low Emitting Materials – Limits and NAUF resins.
- B. Section 05 00 00 – Powder Coat Schedules; for painting.

1.03 QUALITY ASSURANCE

- A. Conform to the recommendations of the Painting and Decorating Contractors of America (PDCA) for Premium Grade work.
- B. Material Quality: Provide manufacturer's best quality trade sale paint material of the various coating types specified.
1. Each product container shall bear manufacturer's legible label indicating manufacturer's name, type of material, product number, batch number, color and instructions for reducing where applicable.
- C. Single Source Responsibility: Furnish primers and undercoat paint produced by the same manufacturer as the finish coats. Use only thinners approved by the paint manufacturer, and use only within recommended limits.
- D. Paint Coordination: Provide finish coats which are compatible with primer paints used.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Approved Manufacturer: All materials of each type used in the work shall be the product of a single manufacturer.
1. PPG Architectural Coatings.
 - a. NO SUBSTITUTIONS permitted without Kohl's approval.

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2.02 MATERIALS

A. Paint: PPG Architectural Coatings.

1. NO SUBSTITUTIONS permitted without Kohl's approval.

B. Primer/Sealer: PPG Architectural Coatings.

1. NO SUBSTITUTIONS permitted without Kohl's approval.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 10 11 43

MAGNETIC SURFACE MATERIAL

PART 1 GENERAL

1.01 SUMMARY

- A. Provide magnetic surface material that best fits the application, design concept, and general requirements.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Magnetic Surface Material: Flexible, ferrite-based magnetic material that can receive magnetic-receptive media (graphic).
 - 1. Material Thicknesses, Allowable:
 - a. 30-mil (.030-inch), +/- 2-mil (.002-inch).
 - b. 40-mil (.040-inch), +/- 2-mil (.002-inch).
 - 2. Magnetic Pull Force: Indicate on Drawings.

2.02 FABRICATION

- A. Edges: Neither edge chipping nor delamination shall be permitted.
- B. Fasteners: Telegraphing of fasteners through the surface that is to receive the magnetic receptive graphic is NOT permitted.

PART 3 EXECUTION – NOT USED

END OF SECTION

KOHL'S Department Stores, Inc.

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SECTION 10 11 46

MAGNETIC-RECEPTIVE MEDIA (GRAPHIC)

PART 1 GENERAL

1.01 SUMMARY

- A. Provide magnetic-receptive media (graphic) that best fits the application, design concept, and general requirements.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Magnetic-Receptive Media (Graphic): Printed graphic media that has a white high-quality printable film on the front surface for receiving printed graphics and a magnetic-receptive coating on the reverse surface to allow it to stick to magnetic (surface) material.

1. Thickness: 13-mil (.013-inch), +/- 1-mil (.001-inch)
2. Dyne Level (magnetic force/strength): 33 g·cm/s²; not less than.

2.02 FABRICATION

- A. Edges: Neither edge chipping nor delamination shall be permitted.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 10 19 10

LED EDGE-LIT LIGHT BOX

PART 1 GENERAL

1.01 SUMMARY

- A. Provide LED Edge-lit Light Boxes as specified herein, complete.
- B. Section Includes:
 - 1. Light Panel.
 - 2. Light Box.
 - 3. Drivers and Power Supplies.
- C. Related Requirements:
 - 1. Section 06 60 10 – Acrylic.

1.02 REFERENCES

- A. Definitions:
 - 1. Binning: The systematic dividing of distribution of performance parameters (Flux, Wavelength or CCT, and Vf) in to small finite groupings that may be selected to optimize assembly performance.
 - 2. Correlated Color Temperature (CCT): The color temperature of a light source is the temperature of an ideal black-body radiator that radiates light of comparable hue to that of the light source. Color temperature is conventionally stated in the unit of absolute temperature, Kelvin (K).
 - 3. Light-Emitting Diode (LED): Semiconductor light source.
 - 4. LED Drivers, Electronic: LEDs require a device that can convert incoming AC power to the proper DC voltage and regulate the current that flows through the LED during operation. An LED driver converts 120V (or other voltage) 60 Hz AC power to the low-voltage DC power required by the LEDs and protects them from line-voltage fluctuations.
- B. Reference Standards: Comply with testing methods and reference standards in effect as of the date of the Contract Documents.
 - 1. American National Standards Institute (ANSI).
 - a. ANSI C78.377 – Specifications for the Chromaticity of Solid State Lighting (SSL) Products; specifies the recommended chromaticity (color) ranges for white light LED's with various correlated color temperatures (CCT).

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- b. ANSI C82.SSL1 – Power Supply; specifies operational characteristics and electrical safety of SSL power supplies and drivers.
- c. ANSI C82.77 – Harmonic Emission Limits – Related Power Quality Requirements for Lighting; specifies the maximum allowable harmonic emission of SSL power supplies.

1.03 WARRANTY

- A. Light Panel Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.
- B. Driver and Power Supply Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 LIGHT PANEL

- A. Light Source: LED modules.
 - 1. Configuration: Edge-lit; 1-edge, 2-edges or all edges.
 - 2. Correlated Color Temperature: 4100K, neutral white, unless otherwise specified by Kohl's.
 - a. Binning: Plus or minus 200K.
 - 3. Illumination: 350 foot-candles, minimum.
 - a. Provide even illumination from edge to edge (not greater than 30 percent change in illumination from any edge to center of panel).
 - 4. Life Cycle, L70: 50,000 hours of operation, minimum.
- B. Panel: Acrylic, optical.
 - 1. Edges:
 - a. All Edges: Polished.
 - b. Un-lit Edges: Provide reflective (metallic) edge tape.
 - 2. Protection: Provide tinted, protective plastic film on panel for shipping; not required when supplied with a lens.
- C. Lens: Acrylic, engraved.
 - 1. Engraving: Patterns to meet illumination variance.
 - 2. Diffuser Tape: Provide along perimeter surface of lens, as needed to conceal light

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source from customer's view.

3. Protection and Labeling: Provide tinted, protective plastic film on both sides of lens and a label affixed to both outside surfaces of the protective plastic film.
 - a. Labeling Requirements: Provide an adhesive label that instructs the Store's Visual Personnel to remove protective plastic film from both sides of the lens prior to installation of graphic.

2.02 LIGHT BOX

- A. Frame: Front-loading, 4-sided snap-flush frame with mitered corners.
 1. Material: Anodized aluminum; extruded.
 2. Color: As selected by Kohl's.
 3. Profile, Thickness and Width: As selected by Kohl's.
 - a. Conceal light source from customer's view.
- B. Backing Panel: Light-proof and light-reflecting.

2.03 DRIVERS AND POWER SUPPLIES

- A. Driver: Electronic, UL certified.
 1. Input Voltage, V: 120-277 (i.e. MVOLT or Universal).

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 10 19 20

LED TAPE-LIT LIGHT BOX

PART 1 GENERAL

1.01 SUMMARY

- A. Provide LED Tape-Lit Light Box as specified herein, complete.
- B. Section Includes:
 - 1. LED Tape.
 - 2. Light Box.
 - 3. Drivers and Power Supplies.
- C. Related Requirements:
 - 1. Section 06 60 10 – Acrylic.

1.02 REFERENCES

- A. Definitions:
 - 1. Binning: The systematic dividing of distribution of performance parameters (Flux, Wavelength or CCT, and Vf) in to small finite groupings that may be selected to optimize assembly performance.
 - 2. Correlated Color Temperature (CCT): The color temperature of a light source is the temperature of an ideal black-body radiator that radiates light of comparable hue to that of the light source. Color temperature is conventionally stated in the unit of absolute temperature, Kelvin (K).
 - 3. Light-Emitting Diode (LED): Semiconductor light source.
 - 4. LED Drivers, Electronic: LEDs require a device that can convert incoming AC power to the proper DC voltage and regulate the current that flows through the LED during operation. An LED driver converts 120V (or other voltage) 60 Hz AC power to the low-voltage DC power required by the LEDs and protects them from line-voltage fluctuations.
- B. Reference Standards: Comply with testing methods and reference standards in effect as of the date of the Contract Documents.
 - 1. American National Standards Institute (ANSI).
 - a. ANSI C78.377 – Specifications for the Chromaticity of Solid State Lighting (SSL) Products; specifies the recommended chromaticity (color) ranges for white light LED's with various correlated color temperatures (CCT).

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- b. ANSI C82.SSL1 – Power Supply; specifies operational characteristics and electrical safety of SSL power supplies and drivers.
- c. ANSI C82.77 – Harmonic Emission Limits – Related Power Quality Requirements for Lighting; specifies the maximum allowable harmonic emission of SSL power supplies.

1.03 WARRANTY

- A. LED Tape Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.
- B. Drivers and Power Supply Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 LED LIGHT TAPE

- A. Light Source: LED modules.
 - 1. Configuration: Flexible strip/tape.
 - 2. Correlated Color Temperature: 4100K, neutral white, unless otherwise specified by Kohl's.
 - a. Binning: Plus or minus 200K.
 - 3. Illumination: 350 foot-candles, minimum.
 - a. Provide even illumination from edge to edge (not greater than 30 percent change in illumination from any edge to center of panel).
 - 4. Life Cycle, L70: 50,000 hours of operation, minimum.
- B. Lens: Acrylic, engraved.
 - 1. Engraving: Patterns to meet illumination variance.
 - 2. Protection and Labeling: Provide tinted, protective plastic film on both sides of lens and a label affixed to both outside surfaces of the protective plastic film.
 - a. Labeling Requirements: Provide an adhesive label that instructs the Store's Visual Personnel to remove protective plastic film from both sides of the lens prior to installation of graphic.

2.02 LIGHT BOX

- A. Frame: Front-loading, 4-sided snap-flush frame with mitered corners.
 - 1. Material: Anodized aluminum; extruded.

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2. Color: As selected by Kohl's.
 3. Profile, Thickness and Width: As selected by Kohl's.
- B. Backing Panel and Sides: Light-proof and light-reflecting.

2.03 DRIVERS AND POWER SUPPLIES

- A. Driver: Electronic, UL certified.
1. Input Voltage, V: 120-277 (i.e. MVOLT or Universal).

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 12 53 10

HIGH-PRESSURE DECORATIVE LAMINATE

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 06 40 00 – Medium Density Fiberboard; for substrate.
- B. Section 06 40 10 – Particle Board; for substrate.
- C. Section 06 40 20 – Plywood; for substrate.
- D. Section 12 00 00 – Plastic Finishes Schedules; for color, finish and manufacturer.

1.02 DEFINITIONS

- A. High-Pressure Decorative Laminate: Composed of resin-impregnated kraft paper, decorative paper face material and a clear melamine-impregnated overly. These sheets are bonded at pressures not lower than 1,000 pounds per square inches.

1.03 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Approved Manufacturers: Reference Section 12 00 00 – Plastic Finishes Schedules.

2.02 MATERIALS

- A. High-Pressure Decorative Laminate: NEMA LD 3 – High-Pressure Decorative Laminates.
 - 1. Color and Finish: Reference Section 12 00 00 – Plastic Finishes Schedules.
 - 2. General Purpose Type: Designed for both horizontal and vertical applications where appearance, durability, resistance to stains and resistance to heat up 275 degrees Fahrenheit.
 - a. Grade HGS and VGS: Used for both horizontal and vertical applications where surface must be functional, durable and decorative. Wilsonart Type 107 or equivalent.
 - 1) Sheet Thickness:
 - a) HGS, Horizontal: .048 inch ± .005-inch.

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- b) VGS, Vertical: .028 inch \pm .004-inch.
- 2) Fire Test Requirements: ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; Unbonded.
 - a) Flame Spread Index: \leq 50.
 - b) Smoke Developed Index: \leq 45.
- b. Grade VGS: Used for vertical applications where a functional, durable, decorative surface must absorb somewhat less impact than a comparable horizontal surface. Wilsonart Type 335 or equivalent.
 - 1) Sheet Thickness:
 - a) VGS, Vertical: .028 inch \pm .004-inch.
 - 2) Fire Test Requirements: ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; Unbonded.
 - a) Flame Spread Index: \leq 45.
 - b) Smoke Developed Index: \leq 40.
- 3. Post-Forming Type: Similar to the General Purpose Type, but is capable of being thermoformed under controlled temperature and pressure.
 - a. Grade VGP: Used to achieve radiused edges in vertical applications. Wilsonart Type 335 or equivalent.
 - 1) Sheet Thickness:
 - a) VGP, Vertical: .028 inch \pm .004-inch.
 - 2) Fire Test Requirements: ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; Unbonded.
 - a) Flame Spread Index: \leq 45.
 - b) Smoke Developed Index: \leq 40.
- 4. Patterns and Surface Finishes: Section 1.7 – Surface Finishes, Section 3.2 – Surface Finish and ASTM D523 – Standard Test Method for Specular Gloss.
 - a. Textured Finish, High Gloss: Wilsonart #07 equivalent to MD and CD 42 ± 4 .
 - b. Textured Finish, Low Gloss (Matte): Wilsonart #60 equivalent to MD and CD 10 ± 2 .
 - c. Furniture Finish (Fine Grain): Wilsonart #78 equivalent to MD and CD 41 ± 8 .

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B. Adhesives:

1. Adhesive Types:

- a. Contact: Used for bonding laminates to metal or other impervious surfaces. Water-based is prohibited.
- b. Polyvinyl Acetate (PVAc): Used for bonding laminates to wood substrates where resistance to moisture and high heat are not required in the application.
- c. Thermosetting: Resorcinal and phenol-resorcinol adhesives are used for bonding laminates to wood substrates where resistance to moisture and heat are required in the application.

2.03 FABRICATION

- A. Shall be double-sided or one-side with a backer. Exposed substrate shall NOT be permitted.
- B. Saw, drill, edge file, and rout laminate with decorative side up to prevent cracking or chipping of laminate surface.
 1. Cut curved edges slightly oversized and finish by sanding, filing or routing for smooth edges.
- C. Laminates shall be bonded to a substrate of reliable quality.
- D. Bond with adhesives and follow the techniques recommended by the adhesive manufacturer. Use permanent type adhesives.
- E. To avoid stress cracking, do not use square-cut inside corners. All inside corners should have a minimum of 1/8 inch radius and all edges should be routed smooth.
- F. Drill oversized holes for screws or bolts. Screws or bolts should be slightly countersunk into the face side of a laminate-clad substrate.
- G. Ensure an appropriate acclimation between the laminate and the substrate prior to fabrication. The face and backing laminates and the substrate should be conditioned in the same environment for 48 hours before fabrication.
- H. Carbide-tipped saw and router blades should be used for cutting. High tool speed and low feed speed are advisable. Cutting blades should be kept sharp. Use a hold-down to prevent any vibration.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 12 53 20

LOW-PRESSURE LAMINATE

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 06 40 00 – Medium Density Fiberboard; for substrate.
- B. Section 06 40 10 – Particle Board; for substrate.
- C. Section 12 00 00 – Plastic Finishes Schedules; for color, finish and manufacturer.

1.02 DEFINITIONS

- A. Low-Pressure Laminate: Composed of decorative paper impregnated with “melamine resin” which is bonded directly to a substrate. No adhesives are used as the resins in the paper thermally fuse the paper to the substrate at pressures in general of 400 pounds per square inch. Does not have a kraft paper core.

1.03 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Approved Manufacturers: Reference Section 12 00 00 – Plastic Finishes Schedules.

2.02 MATERIALS

- A. Low-Pressure Laminate:
 - 1. Color and Finish: Reference Section 12 00 00 – Plastic Finishes Schedules.

2.03 FABRICATION

- A. Low-Pressure Laminate and Substrate:
 - 1. Manufactured through a thermally fused process.
 - 2. Shall be double-sided or one-side with a backer. Exposed substrate shall NOT be permitted.
- B. Router cuts, including but not limited to acrylic sign frames and raw edges, shall be painted and covered.
- C. Cut laminate in a manner that prevents splintering or tearing.

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PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 12 53 30

PVC BASED VINYL

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 06 40 00 – Medium Density Fiberboard; for substrate.
- B. Section 06 40 10 – Particle Board; for substrate.
- C. Section 12 00 00 – Plastic Finishes Schedules; for color, finish and manufacturer.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Approved Manufacturers: Reference Section 12 00 00 – Plastic Finishes Schedules.

2.02 MATERIALS

- A. PVC Based Vinyl:
 - 1. Impact Resistance: NEMA LD 3 – High-Pressure Decorative Laminates.
 - 2. Fire Test Requirements: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; unbonded.
 - 3. Additional testing standards may be required at the sole discretion of Kohl's.
- B. Color and Finish: Reference Section 12 00 00 – Plastic Finishes Schedules.

2.03 FABRICATION

- A. Shall be double-sided or one-side with a backer. Exposed substrate shall NOT be permitted.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 12 53 40

PVC EDGE BANDING

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 06 40 00 – Medium Density Fiberboard; for substrate.
- B. Section 06 40 00 – Particle Board; for substrate.
- C. Section 12 00 00 – Plastic Finishes Schedules; for color and finish.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Edge Banding: Thermoplastic PVC; grain through preferred. Neither T-molding nor non-PVC edge banding shall be permitted.
 - 1. Color and Finish: Provide a close match to laminate and PVC vinyl base surface color and finish. Reference Section 12 00 00 – Plastic Finishes Schedules.
 - 2. Edge banding thickness will be specified by Kohl's for individual applications.
 - 3. Color Variability: Slight color variations are possible. Color must be evaluated visually by holding and observing the edge banding under standard florescent lighting at a distance of 3 feet.
 - 4. Impact Resistance: Use a Gardner IG-1115 impact tester, resistance not less than 20 inch-pounds.
 - 5. Solvent Resistance: No significant gloss reduction or print erasure shall be observed after 10 double-rubs of MIBK, applied with normal had pressure and using a cleaning towel.
 - 6. Band Straightness – M.
 - a. Maximum Camber: .150-inch on a 3 foot sample for 3 mm (.118-inch) to 5 mm (.196-inch) PVC Edge Banding.
 - 7. It is NEVER acceptable for edge banding to come off, exposing unfinished wood.
- B. Finish: Smooth and without visual defect.

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1. Visual Defects: Evaluated by holding and observing the edge banding at a distance of 3 feet from observer.
- C. Adhesive: Jowatherm Edgebanding Hot Melt Glue 286.62 or equivalent.
1. 3 mm (.118-inch) edge banding and thicker shall be attached with a hot melt glue process.
 2. 0.4572 (0.018-inch) edge banding in select instances. Kohls to review and approve as need based on fixture functionality.
 3. 5 mm (.197-inch) edge banding in select instances. Kohls to review and approve as need based on fixture functionality.

PART 3 EXECUTION – NOT USED

END OF SECTION

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SECTION 12 53 50

APVC ACRYLIC BASED VINYL

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Section 06 40 00 – Medium Density Fiberboard; for substrate.
- B. Section 06 40 10 – Particle Board; for substrate.
- C. Section 12 00 00 – Plastic Finishes Schedules; for color, finish and manufacturer.

1.02 WARRANTY

- A. Manufacturer's Warranty: Reference Contract Agreement for schedule of materials and functional specifications, specific details, and warranty periods.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Approved Manufacturers: Reference Section 12 00 00 – Plastic Finishes Schedules.

2.02 MATERIALS

- A. APVC Based Vinyl: Acrylic-polyvinyl chloride.
 - 1. Impact Resistance: NEMA LD 3 – High-Pressure Decorative Laminates.
 - 2. Fire Test Requirements: ASTM E 162 – Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source.
 - 3. Additional testing standards may be required at the sole discretion of Kohl's.
- B. Color and Finish: Reference Section 12 00 00 – Plastic Finishes Schedules.

2.03 FABRICATION

- A. Shall be double-sided or one-side with a backer; exposed substrate is NOT permitted without Kohl's approval.

PART 3 EXECUTION – NOT USED

END OF SECTION

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UNACCEPTABLE QUALITY ISSUES

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EDGE BANDING

Failure: Edge banding did not adhere to fixture

Failure mode: Non-PVC edge banding used



LAMINATE

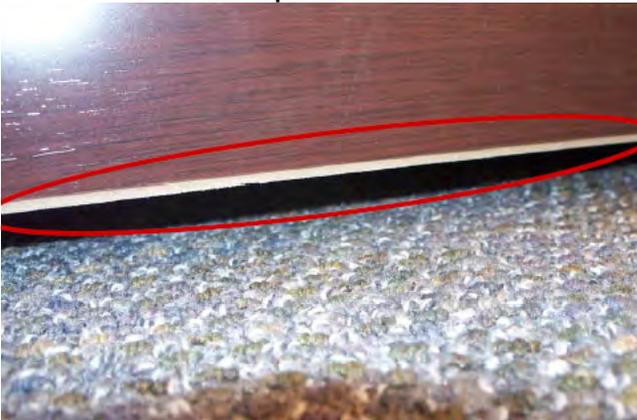
Failure: Laminate tore off of cash wrap

Failure mode: Melamine cut in incorrect manner



Failure: Unfinished wood is visible to customer

Failure Mode: Laminate does not come down far enough to cover all of the wood and exposed wood is not stained to specifications



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LAMINATE

Failure: Laminate is chipped

Failure Mode: Laminate is not cut in a manner that prevents chipping



Failure: Exposed wood is visible to customers

Failure Mode: Laminate did not hold up and tore off

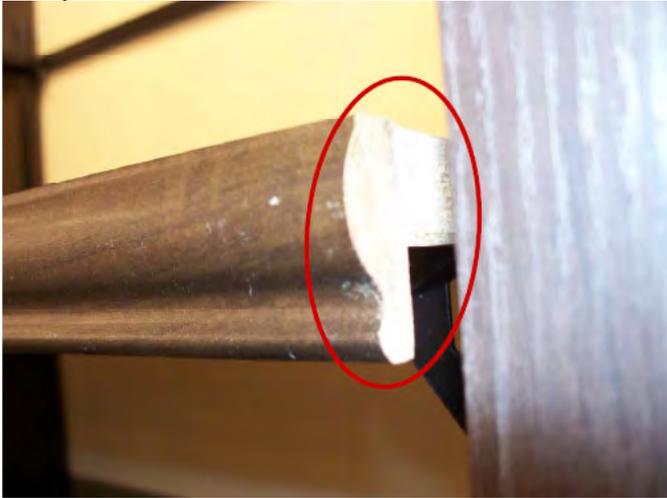


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WOOD

Failure: Unfinished wood is visible to customer

Failure Mode: Shelf comes out too far and exposed wood is not stained to specification



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METAL

Failure: Unfinished weld prevents assembly

Failure Mode: Sheet metal edges are not hemmed to inside of fixture correctly, which prevents another piece from fitting into the fixture



Failure: Metal fixture bent at connection point

Failure Mode: Improper welding techniques used



METAL

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Failure: Metal fixture bent at connection point
Failure Mode: Improper welding techniques used



Failure: Metal fixture bent at connection point
Failure Mode: Improper welding techniques used

