

SECTION 12350

DISPLAY CASEWORK

THIS SECTION IS WRITTEN IN CSI 3-PART FORMAT AND IN CSI PAGE FORMAT; THE PROJECT NAME/NUMBER/DATE AND SECTION TITLE IN THE FOOTER ARE OPTIONAL. NOTES TO THE SPECIFIER, SUCH AS THIS, MUST BE DELETED FROM THE FINAL SPECIFICATION.

IT IS ASSUMED THAT THE GENERAL CONDITIONS BEING USED ARE AIA A201-97.

PART 1 GENERAL

1.01 SUMMARY

A. Related Sections:

EDIT LIST BELOW TO CONFORM TO PROJECT REQUIREMENTS.

1. Section 01630 Substitutions
2. Masonry Block Walls: Division 4
3. Rough carpentry: Division 6.
4. Architectural woodwork and custom casework: Division 6.
5. Gypsum Wall Board: Division 9
6. Paint and Coatings: Division 9
7. Electrical connections: Division 16.

IF THE PROJECT INCLUDES ALLOWANCES OR ALTERNATES OR UNIT PRICES, RETAIN PARAGRAPHS BELOW AND COORDINATE WITH DIVISION 1.

B. Allowances: Section 01210.

C. Alternates: Section 01230.

D. Unit Prices: Section 01270.

1.02 REFERENCES

DELETE REFERENCES NOT USED IN PART 2 OR PART 3.

A. American National Standards Institute (ANSI):

1. A208.1, American National Standard for Particleboard.

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2. H35.1 Alloy and Temper Designation for Aluminum.
 3. A135.4, American National Standard for Basic Hardboard.
- B. American Society for Testing and Materials (ASTM):
1. A 424, Specification for Steel, Sheet, for Porcelain Enameling.
 2. B 221, Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 3. C208, Specification for Cellulosic Fiberboard.
 4. C 1048, Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass.
 5. D1752, Specification for cork sheet, bulletin board
- C. GSA Federal Specification (FS):
1. CCC-W-408a, Specification for vinyl coated wall covering.

RETAIN IF SITE IS WITHIN AN EARTHQUAKE PRONE AREA.

1.03 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Provide display casework and installation capable of withstanding the effects of earthquake tremors calculated according to requirements of authorities having jurisdiction or ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 9, "Earthquake Loads," whichever is most stringent.

1.04 SUBMITTALS

- A. Product Data: Manufacturer's technical data for display casework specified.
- B. Shop Drawings: Include plans and elevations, details at a large scale showing the location of each item, identify components used, and indicate method of attachment.
1. Submit wiring diagrams for lights for coordination with Electrical Contractor.
- C. Samples:

RETAIN BELOW ONLY IF WOOD VENEERED UNITS ARE SPECIFIED.

1. Veneer Core Plywood: 12-inch by 12-inch finished sample.
2. Transparent Finish:

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- a. Selection: Manufacturer's standard range of colors.
- b. Verification: 5-by 3-inch samples of each finish and selected color.

RETAIN BELOW ONLY IF PLASTIC LAMINATE FINISHED UNITS ARE SPECIFIED.

- 3. Plastic Laminate:
 - a. Selection: Manufacturer's standard range of colors.
 - b. Verification: Standard size color chips made available by the laminate manufacturer in each finish and color selected.
- D. Quality Control Submittals:
 - 1. Certificates:
 - a. Contractor's certification that the manufacturer has the specified experience.
 - b. Manufacturer's certification that the installer is acceptable.
- E. Contract Closeout Submittals:
 - 1. Maintenance Data: Manufacturer's cleaning and maintenance instructions covering both routine (daily or weekly) and long-term (yearly or longer) operations.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Not less than 5 years experience in manufacturing specified products.
- B. Installer Qualifications: Acceptable to the manufacturer.

RETAIN BELOW IF MOCK-UP IS REQUIRED.

- C. Mock-Ups: Furnish a full size base and wall cabinet showing actual construction and materials to be used.
 - 1. Deliver mock-ups to the site.
 - 2. Acceptable mock-ups may be incorporated into the Work.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Protection: Store all materials in dry areas at temperatures above 55 degrees F.

1.07 PROJECT CONDITIONS

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- A. Environmental Requirements: Deliver and install products after the building has been enclosed and interior air and substrate temperatures are stable and approximate design conditions.
- B. Field Measurements: Verify all field measurements prior to fabrication.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. The design is based on products manufactured by PolyVision Corporation, as provided by WIUSA.com, PO Box 567949, Dallas, TX 75356, 800-527-9014, FAX 214-631-4654, web: www.wiusa.com, email: sales@wiusa.com.
- B. Products specified herein indicate a minimum standard of materials, methods, and workmanship.

2.02 MATERIALS

RETAIN BELOW ONLY IF WOOD VENEER DISPLAY CASES AND/OR EXECUTIVE CONFERENCE UNITS ARE SPECIFIED. ADD OPTIONS INCLUDE WHITE MAPLE, RED OAK, CHERRY AND WALNUT.

- A. Veneer Core Plywood: ¾" thick 7 ply birch veneer core plywood, Grade A.

RETAIN BELOW ONLY IF PLASTIC LAMINATE INTERIORS, BASES, OR EXECUTIVE CONFERENCE UNITS ARE SPECIFIED.

- B. High Pressure Decorative Laminate (HPDL): Horizontal General Purpose type (HGS).
 - 1. Nominal Thickness: GP50 for countertops, GP28 for all other surfaces.

SELECT COLOR BELOW. IF MORE THAN ONE COLOR IS BEING USED, CREATE A DESIGNATOR FOR EACH COLOR AND COORDINATE WITH THE DRAWINGS.

- 2. Color(s): As selected by the Architect from the manufacturer's range of standard colors.

RETAIN STANDARDS AND BRACKETS ONLY IF TROPHY

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AND/OR DISPLAY CASES ARE SPECIFIED.

- C. Shelf Standards: 5/8-inch by 7/16-inch steel with anachrome finish and slots in 1-inch increments.

REVISE LENGTH BELOW AS REQUIRED, 4-INCH TO 20-INCH LENGTHS ARE AVAILABLE IN EVEN-NUMBERED INCREMENTS.

- D. Shelf Brackets: Steel, boltless with lip front and anachrome finish in 4-inch length.

- E. Glass: ASTM C 1048, Kind FT (fully tempered), Type I.

1. Thickness: 6 mm (1/4 inch nominal).
2. Color: Clear.

- F. Aluminum Perimeter Trim: 6063-T5 alloy

1. 2" x 2" x 1/8" satin anodized aluminum angle mitered, with reinforced corners and mechanical fasteners. *(SDC OR HDC SERIES)*
1. 2" x 2" x 1/8" satin anodized aluminum tube mitered, with reinforced corners and mechanical fasteners. *(STC OR STB SERIES)*

RETAIN BELOW ONLY IF EXECUTIVE CONFERENCE UNITS ARE SPECIFIED.

- G. Whiteboards and Chalkboards:

SELECT FACING SHEET BELOW. SELECT THE LOW GLOSS FACING SHEET ONLY FOR SURFACES USED MORE FOR PROJECTION THAN WRITING.

1. Facing sheet: P³ ceramicsteel™ Markerboard 80 to 85 percent gloss (low gloss surface).
1. Facing sheet: P³ ceramicsteel™ Markerboard, 91 to 97 percent gloss (high gloss surface).
1. Facing sheet: P³ ceramicsteel™ Chalkboard, 4 to 7 percent gloss.

SELECT COLOR BELOW. IF MORE THAN ONE COLOR IS BEING USED, CREATE A DESIGNATOR FOR EACH COLOR AND COORDINATE WITH THE DRAWINGS.

2. Color(s): As selected by the Architect from the manufacturer's range of

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standard colors.

RETAIN AND SELECT IF TACKABLE SURFACES ARE SPECIFIED.

H. Tackable Surface:

1. Covering: 1/4-inch thick pure grain natural cork.
1. Covering: 1/4-inch thick linoleum grade cork with burlap backing.
1. Covering: 15 ounce per linear yard, Polyvision Type I Vinyl.
1. Covering: 21 ounce per linear yard, Polyvision Type II Vinyl.
1. Covering: 20 ounce per linear yard, 2-ply, 100 percent polyester fabric with a plain weave pattern.

SELECT COLOR BELOW. IF MORE THAN ONE COLOR IS BEING USED, CREATE A DESIGNATOR FOR EACH COLOR AND COORDINATE WITH THE DRAWINGS.

2. Color(s): As selected by the Architect from the manufacturer's range of standard colors.

SELECT CORE MATERIAL.

3. 1/4-inch fiberboard and 1/4-inch natural cork.
3. 1/4-inch fiberboard.
3. 3/8-inch fiberboard and 1/8-inch natural cork.
3. 1/2-inch fiberboard.
3. 1/4-inch medium density fiberboard (hardboard) and 1/4-inch natural cork.
3. 1/4-inch medium density fiberboard (hardboard)
3. 1/2-inch agricultural board

2.03 MANUFACTURED UNITS

SELECT CASES REQUIRED BELOW. IF MORE THAN ONE CASE IS RETAINED, CREATE DESIGNATORS AND COORDINATE WITH THE DRAWINGS.

A. Trophy Cases:

STC SERIES IS WALL MOUNTED AND HAS SATIN ALUMINUM TRIM.

1. STC Series:

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- a. Product No.: STC12-044, 48 inches wide by 48 inches high by 12 inches deep.
- b. Product No.: STC12-064, 72 inches wide by 48 inches high by 12 inches deep.
- c. Product No.: STC12-084, 96 inches wide by 48 inches high by 12 inches deep.
- d. Product No.: STC12-104, 102 inches wide by 48 inches high by 12 inches deep.
- e. Product No.: STC16-044, 48 inches wide by 48 inches high by 16 inches deep.
- f. Product No.: STC16-064, 72 inches wide by 48 inches high by 16 inches deep.
- g. Product No.: STC16-084, 96 inches wide by 48 inches high by 16 inches deep.
- h. Product No.: STC16-104, 102 inches wide by 48 inches high by 16 inches deep.
- i. Product No.: STC24-044, 48 inches wide by 48 inches high by 24 inches deep.
- j. Product No.: STC24-064, 72 inches wide by 48 inches high by 24 inches deep.
- k. Product No.: STC24-084, 96 inches wide by 48 inches high by 24 inches deep.
- l. Product No.: STC24-104, 102 inches wide by 48 inches high by 24 inches deep.

1) Shelving: 2 rows per case

1) Shelving: _ rows per case

STB SERIES CASES ARE MOUNTED ON AN 18-INCH HIGH BASE. CASES ARE MOUNTED AGAINST THE WALL AND HAVE SATIN ALUMINUM TRIM.

2. STB Series:
 - a. Product No.: STB12-W1, 48 inches wide by 66 inches high by 12 inches deep.
 - b. Product No.: STB12-W2, 60 inches wide by 66 inches high by 12 inches deep.
 - c. Product No.: STB12-W3, 72 inches wide by 66 inches high by 12 inches deep.
 - d. Product No.: STB12-W4, 96 inches wide by 66 inches high by 12 inches deep.
 - e. Product No.: STB12-W5, 120 inches wide by 66 inches high by 12 inches deep.

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inches deep.

- f. Product No.: STB16-W1, 48 inches wide by 66 inches high by 16 inches deep.
- g. Product No.: STB16-W2, 60 inches wide by 66 inches high by 16 inches deep.
- h. Product No.: STB16-W3, 72 inches wide by 66 inches high by 16 inches deep.
- i. Product No.: STB16-W4, 96 inches wide by 66 inches high by 16 inches deep.
- j. Product No.: STB16-W5, 120 inches wide by 66 inches high by 16 inches deep.
- k. Product No.: STB24-W1, 48 inches wide by 66 inches high by 24 inches deep.
- l. Product No.: STB24-W2, 60 inches wide by 66 inches high by 24 inches deep.
- m. Product No.: STB24-W3, 72 inches wide by 66 inches high by 24 inches deep.
- n. Product No.: STB24-W4, 96 inches wide by 66 inches high by 24 inches deep.
- o. Product No.: STB24-W5, 120 inches wide by 66 inches high by 24 inches deep.

- 1) Shelving: 2 rows per case
- 1) Shelving: _ rows per case

THE FOLLOWING CASES ARE MOUNTED ON AN 18" HIGH BASE AND ARE FREE STANDING, HAVE A GLASS BACK, AND SATIN ALUMINUM TRIM.

- f. Product No.: STB16-C1, 36 inches wide by 54 inches high by 16 inches deep.
- g. Product No.: STB16-C2, 48 inches wide by 54 inches high by 16 inches deep.
- h. Product No.: STB16-C3, 60 inches wide by 54 inches high by 16 inches deep.
- i. Product No.: STB24-C1, 36 inches wide by 54 inches high by 24 inches deep.
- j. Product No.: STB24-C2, 48 inches wide by 54 inches high by 24 inches deep.
- k. Product No.: STB24-C3, 60 inches wide by 54 inches high by 24 inches deep.

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- 1) Shelving: 2 rows per case
- 1) Shelving: _ rows per case

B. Display Cases:

THE FOLLOWING SERIES HAS SLIDING DOORS AND SATIN ALUMINUM TRIM.

1. SDC Series:

- a. Product No.: SDC-044, 48 inches wide by 48 inches high by 12 inches deep.
- b. Product No.: SDC-064, 72 inches wide by 48 inches high by 12 inches deep.
- c. Product No.: SDC-084, 96 inches wide by 48 inches high by 12 inches deep.
- d. Product No.: SDC-104, 120 inches wide by 48 inches high by 12 inches deep.
- e. Product No.: SDC-044, 48 inches wide by 48 inches high by 16 inches deep.
- f. Product No.: SDC-064, 72 inches wide by 48 inches high by 16 inches deep.
- g. Product No.: SDC-084, 96 inches wide by 48 inches high by 16 inches deep.
- h. Product No.: SDC-104, 120 inches wide by 48 inches high by 16 inches deep.
- i. Product No.: SDC-044, 48 inches wide by 48 inches high by 24 inches deep.
- j. Product No.: SDC-064, 72 inches wide by 48 inches high by 24 inches deep.
- k. Product No.: SDC-084, 96 inches wide by 48 inches high by 24 inches deep.
- l. Product No.: SDC-104, 120 inches wide by 48 inches high by 24 inches deep.

- 1) Shelving: 2 rows per case
- 1) Shelving: _ rows per case

THE FOLLOWING SERIES HAS HINGED DOORS AND SATIN ALUMINUM TRIM.

2. HDC Series:

- a. Product No.: HDC-044, 48 inches wide by 48 inches high by 12 inches deep.

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- b. Product No.: HDC-064, 72 inches wide by 48 inches high by 12 inches deep.
- c. Product No.: HDC-084, 96 inches wide by 48 inches high by 12 inches deep.
- d. Product No.: HDC-104, 120 inches wide by 48 inches high by 12 inches deep.
- e. Product No.: HDC-044, 48 inches wide by 48 inches high by 16 inches deep.
- f. Product No.: HDC-064, 72 inches wide by 48 inches high by 16 inches deep.
- g. Product No.: HDC-084, 96 inches wide by 48 inches high by 16 inches deep.
- h. Product No.: HDC-104, 120 inches wide by 48 inches high by 16 inches deep.
- i. Product No.: HDC-044, 48 inches wide by 48 inches high by 24 inches deep.
- j. Product No.: HDC-064, 72 inches wide by 48 inches high by 24 inches deep.
- k. Product No.: HDC-084, 96 inches wide by 48 inches high by 24 inches deep.
- l. Product No.: HDC-104, 120 inches wide by 48 inches high by 24 inches deep.

- 1) Shelving: 2 rows per case
- 1) Shelving: _ rows per case

THE FOLLOWING SERIES IS WOOD VENEER, SURFACE MOUNTED.

- 3. WSD Series:
 - a. Product No. WSD 4036, 48 inches wide by 36 inches high by 12 inches deep.
 - b. Product No. WSD 4048, 48 inches wide by 48 inches high by 12 inches deep.
 - c. Product No. WSD 5036, 60 inches wide by 36 inches high by 12 inches deep.
 - d. Product No. WSD 5048, 60 inches wide by 48 inches high by 12 inches deep.
 - e. Product No. WSD 6036, 72 inches wide by 36 inches high by 12 inches deep.
 - f. Product No. WSD 6048, 72 inches wide by 48 inches high by 12 inches deep.

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- 1) Shelving: 2 rows per case
- 1) Shelving: _ rows per case

C. Display Case Fronts:

SERIES BELOW IS AVAILABLE IN ANY SIZE FROM 4 FEET WIDE BY 3 FEET HIGH TO 8 FEET WIDE BY 4 FEET HIGH. DOORS ARE MADE WITH ALUMINUM ANGLE TRIM AND TRACK, SATIN FINISH. REVISE DIMENSIONS TO SUIT PROJECT REQUIREMENTS, CONTACT WIUSA.com at 800-527-9014 FOR PRODUCT NO.

1. SDCF Series: Product No. SDCF 064, 72 inches wide by 48 inches high

SERIES BELOW IS AVAILABLE IN ANY SIZE FROM 4 FEET WIDE BY 5 FEET HIGH TO 8 FEET WIDE BY 8 FEET HIGH. DOORS ARE MADE WITH ALUMINUM TUBE FRAMING, SATIN FINISH. REVISE DIMENSIONS TO SUIT PROJECT REQUIREMENTS, CONTACT WIUSA.com at 800-527-9014 FOR PRODUCT NO.

2. SDCFX Series: Product No. SDCFX 086, 96 inches wide by 72 inches high.

D. Executive Conference Units:

SERIES BELOW HAS A WOOD VENEER FINISH WITH A STATIC WHITEBOARD AND TACKABLE SURFACE ON DOOR INTERIORS.

1. ECUV Series:

SELECT PRODUCT NUMBER VENEER SPECIES, AND MARKERBOARD OR CHALKBOARD COLOR BELOW.

- a. Product No. ECUV-0440:
 - 1) Closed Size: 48 inches by 48 inches.
 - 2) Open Size: 96 inches by 48 inches.
- a. Product No. ECUV-0640:
 - 1) Closed Size: 72 inches by 48 inches.
 - 2) Open Size: 144 inches by 48 inches.
- b. Veneer species: Plain sliced red oak.
- b. Veneer species: Plain sliced select white hard maple.
- b. Veneer species: Plain sliced walnut.

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- b. Veneer species: Plain sliced cherry.
- c. Markerboard color: 6100H White.
- c. Markerboard color: 6101H Light Grey.
- c. Markerboard color: 6102H Beige.
- c. Chalkboard color: 6500U Green.
- c. Chalkboard color: 6501U Black.
- c. Chalkboard color: 6502U Grey.

SELECT ADD OPTIONS AS DESIRED

SERIES BELOW HAS A PLASTIC LAMINATE FINISH WITH A STATIC WHITEBOARD AND TACKABLE SURFACE ON DOOR INTERIORS.

2. ECUL Series:

SELECT PRODUCT NUMBER LAMINATE COLOR, AND MARKERBOARD OR CHALKBOARD COLOR BELOW.

- a. Product No. ECUL-0440:
 - 1) Closed Size: 48 inches by 48 inches.
 - 2) Open Size: 96 inches by 48 inches.
- a. Product No. ECUL-0640:
 - 1) Closed Size: 72 inches by 48 inches.
 - 2) Open Size: 144 inches by 48 inches.
- b. Plastic laminate color: As selected by the Architect from the manufacturer's range of standard colors.
- c. Markerboard color: 6100H White.
- c. Markerboard color: 6101H Light Grey.
- c. Markerboard color: 6102H Beige.
- c. Chalkboard color: 6500U Green.
- c. Chalkboard color: 6501U Black.
- c. Chalkboard color: 6502U Grey.

3. TS Series:

PRODUCTS BELOW HAVE A WOOD VENEER FINISH WITH AN INTERACTIVE WHITEBOARD AND TACKABLE SURFACE ON DOOR INTERIORS.

- a. Product No. TSL-4V:
 - 1) Closed Size: 50 inches by 45 inches.
 - 2) Open Size: 96 inches by 48 inches.
 - 3) TS400L 3' x 4' Interactive Whiteboard with Lightning™

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- a. Product No. TSL-6V:
 - 1) Closed Size: 70 inches by 53 inches.
 - 2) Open Size: 139 inches by 53 inches.
 - 3) TS600L 6' x 4' Interactive Whiteboard with Lightning™
- b. Veneer species: Plain sliced red oak.
- b. Veneer species: Plain sliced select white hard maple.
- b. Veneer species: Plain sliced walnut.
- b. Veneer species: Plain sliced cherry.

PRODUCTS BELOW HAVE A PLASTIC LAMINATE FINISH WITH AN INTERACTIVE WHITEBOARD AND TACKABLE SURFACE ON DOOR INTERIORS.

- a. Product No. TSL-4L:
 - 1) Closed Size: 50 inches by 45 inches.
 - 2) Open Size: 96 inches by 48 inches.
 - 3) TS400L 3' x 4' Interactive Whiteboard with Lightning™
- a. Product No. TSL-6L:
 - 1) Closed Size: 70 inches by 53 inches.
 - 2) Open Size: 139 inches by 53 inches.
 - 3) TS600L 6' x 4' Interactive Whiteboard with Lightning™
- b. Plastic laminate color: As selected by the Architect from the manufacturer's range of standard colors.

2.05 ACCESSORIES

RETAIN BELOW ONLY FOR TROPHY AND/OR DISPLAY CASES.

- A. Trophy and Display Case
 - 1. Lighting: 110/277 volt fluorescent lights.
SELECT ONE EACH CATEGORY
 - a. Single Tube
 - a. Double Tube
 - b. Surface Mounted
 - b. Recessed
 - 2. Locks: chrome plated, one per set of doors.
 - a. Sliding Doors: ratchet type.
 - b. Hinged Doors: 90-degree cam type.

RETAIN BELOW IF TACKABLE DOORS FOR EXECUTIVE CONFERENCE CABINETS. SELECT ONE.

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B. Executive Conference Units

1. Tackable Surface: 1/4-inch thick pure grain natural cork.
1. Tackable Surface: 1/4-inch thick linoleum grade cork with burlap backing.
1. Tackable Surface: 15 ounce per linear yard, Polyvision Type I Vinyl laminated to 1/4-inch natural cork.
1. Tackable Surface: 21 ounce per linear yard, Polyvision Type II Vinyl laminated to 1/4-inch natural cork.
1. Tackable Surface: 20 ounce per linear yard, 2-ply, 100 percent polyester fabric with a plain weave pattern laminated to 1/4-inch natural cork.

*SELECT COLOR
BELOW. IF MORE THAN ONE COLOR IS BEING USED,
CREATE A DESIGNATOR FOR EACH COLOR AND
COORDINATE WITH THE DRAWINGS.*

- a. Color(s): As selected by the Architect from the manufacturer's range of standard colors.

*RETAIN FOR ADD OPTIONS FOR EXECUTIVE CONFERENCE
UNITS ECUV AND ECUL*

2. Projection Screen: 40" x 40"
3. M-1B Map Rail

2.06 FABRICATION

- A. All Display Cases or Display Case Fronts shall be sized as noted above or as noted on the drawings.
- B. Display Cases shall be complete with 1/2-inch plywood box, metal standards and brackets, and 1/4-inch tempered glass shelves. All exposed metal shall be extruded aluminum 6063-T5 alloy, anodized satin finish. Doors shall be 1/4-inch tempered glass. Number of doors per unit as recommended by the manufacturer.
- C. Sliding Doors:
 1. Top and bottom of sliding doors shall have satin anodized aluminum "H" molding with fiber wheels at the bottom and plastic guides at the top. Each glass door shall have finger slots.

OPTIONAL-FOR LARGER DOOR APPLICATIONS
 1. Doors shall be fully framed with 7/8-inch by 1-1/2-inch satin anodized aluminum trim with bottom rollers and nylon top guides.
 2. Door track: satin anodized aluminum with guide rail

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D. Hinged Doors:

1. Doors shall be fully framed with 9/16-inch by 1-1/8-inch satin anodized aluminum. Case shall have continuous doors stops at top and bottom as well as continuous vertical aluminum piano hinges.

OPTIONAL-FOR LARGER DOOR APPLICATIONS

1. Doors shall be fully framed with 7/8-inch by 1-1/2-inch satin anodized aluminum trim. Cases shall have continuous door stops at top and bottom as well as continuous vertical piano hinge, 1-inch by .040 nickel plated steel, finished to match case

E. Display Case Backs or Backs and Sides

1. Display cases mounted against walls shall have:

a. Interior backs of: *SELECT ONE*

- 1) Wood Veneer
- 1) Plastic Laminate
- 1) Tackable Surface

b. Interior sides of:

- 1) Wood Veneer
- 1) Plastic Laminate

2. Free Standing Display Cases shall have:

a. Interior backs of 1/4-inch tempered glass

b. Interior sides of:

- 1) 1/4-inch tempered glass
- 2) Wood Veneer
- 3) Plastic Laminate

F. Shop/Factory Finishing:

RETAIN BELOW ONLY IF WOOD VENEERED UNITS ARE SPECIFIED.

1. Transparent Finish: For consistency in sanding and finishing, wood parts shall be prepared under a controlled process with machine sanding and topcoating. Open pore wood surfaces will have a UV curable filled finish in a standard color selected by the architect.
1. Transparent Finish: For consistency in sanding and finishing, wood parts shall be prepared under a controlled process with machine sanding and topcoating. Open pore wood surfaces will have a UV curable filled finish to match color sample provided by the architect.
2. Miscellaneous Metal Parts: Protect from oxidation by painting or anodizing.

PART 3 EXECUTION

3.01 EXAMINATION

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- A. Verification of Conditions:
 - 1. Verify that surfaces to receive units are true and plumb.
 - 2. Verify that blocking and backings have been installed as required for anchorage.
 - 3. Advise responsible contractor of unacceptable conditions. Begin installation upon correction.

3.02 INSTALLATION

- A. General:
 - 1. All installation shall be under the supervision of the manufacturer. All installation must be handled by crews who do this type of work for regular employment.
 - 2. Provide all necessary installation accessories.
 - 3. Install doors to operate smoothly with edges aligned.

3.03 ADJUSTING

- A. At Substantial Completion, adjust and lubricate cabinet hardware for smooth operation if required.

3.04 CLEANING

- A. At Substantial Completion, clean exposed and semi-exposed parts using manufacturer's recommended procedures.

3.05 PROTECTION

- A. Protect casework from damage and maintain design environmental conditions until Substantial Completion.

END OF SECTION 12300