

SECTION 101200
DISPLAY CASES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Recessed display cases.
- B. Surface-mounted and Free-standing display cases.

1.02 REFERENCE STANDARDS

- A. AAMA 611 - Specification for Anodized Architectural Aluminum; 2024.
- B. ASTM A555/A555M - Standard Specification for General Requirements for Stainless Steel Wire and Wire Rods; 2023.
- C. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.
- D. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- E. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.
- F. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2025.
- G. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2024.

1.03 SUBMITTALS

- A. Product Data: Submit complete printed data and installation details indicating products to be provided as specified.
 - 1. Submit color charts for selection by the Architect.
- B. Shop Drawings: Indicate plans, wall elevations, dimensions, joint locations.
 - 1. Indicate panel joint locations, including field-assembled joints for factory units exceeding shipping size, if applicable.
- C. Samples: Submit samples of material and trim to illustrate finish, color, and texture.
- D. Specimen Warranty.

1.04 **QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least 20 years of documented experience.

1.05 **DELIVERY, STORAGE AND HANDLING**

- A. Deliver display cases and materials to the Project site with manufacturer's protective crate covering and do not open until ready for use.
- B. Protect display cases before, during, and after installation. In case of damage, immediately provide necessary repairs and replacements.

1.06 **FIELD CONDITIONS**

- A. Field Measurements: Verify field measurements for recessed application for display cases before preparation of shop drawings and before fabrication to ensure proper installation.

1.07 **WARRANTY**

- A. Provide five year manufacturer warranty against defects and in materials, finish product and workmanship.
- B. The warranty excludes labor and any additional material expenses related to the removal or reinstallation of display cases.
- C. When properly installed per manufacturer instructions, Display Cases are warranted for one year against workmanship defects. This warranty excludes damage from misuse, vandalism, or improper handling and covers only material replacement, not removal or reinstallation costs.

PART 2 PRODUCTS

2.01 **MANUFACTURERS**

- A. **Display Case**
 - 1. Nelson Adams NACO
 - 2. Address: 420 S E st, San Bernardino, CA, 92401.
 - 3. P. (877) 810-4080.
 - 4. Web Page: <https://www.nelsonadamsnaco.com>

2.02 **DISPLAY CASES**

- A. **Recessed Display Case:** Factory-fabricated wood-framed display case with adjustable glass shelves, finished interior, and aluminum trim on face to cover edge of recessed opening.
 - 1. Width: As indicated on drawings.
 - 2. Height: As indicated on drawings.
 - 3. Depth: As indicated on drawings.
 - 4. **Components:**
 - a. Glazed Doors: [Hinged][Sliding]
 - 1) Number of Doors: As indicated on drawings.

- b. Side Panels: [Stained veneer plywood][Laminated-face substrate]
- c. Back Panel: [Tackable][Laminated Face]
- d. Top Panel: [Laminate-faced substrate][Stained Veneer Plywood]
- e. Bottom Panel: [Laminate-faced substrate][Stained Veneer Plywood]
- f. Lighting: [LED][Fluorescent]

B. Surface-Mounted Display Case: Factory-fabricated aluminum-framed display case with adjustable glass shelves, finished interior.

- 1. Width: As indicated on drawings.
- 2. Height: As indicated on drawings.
- 3. Depth: As indicated on drawings.
- 4. **Components:**
 - a. Glazed Doors: [Hinged][Sliding]
 - 1) Number of Doors: As indicated on drawings.
 - b. Side Panels: [Stained veneer plywood][Laminated-face substrate]
 - c. Back Panel: [Tackable][Laminated Face]
 - d. Top Panel: [Laminate-faced substrate][Stained Veneer Plywood]
 - e. Bottom Panel: [Laminate-faced substrate][Stained Veneer Plywood]
 - f. Lighting: [LED][Fluorescent]
- 5. Free-Standing Display Case Base: Legs to match frame construction.

2.03 COMPONENTS

- A. **Wood Case Construction:** 3/4 inch (19 mm) 7-ply oak veneer plywood with manufacturer's standard stain.
- B. **Aluminum Framed Case Construction:** 1-1/2 inch by 2 inch (38 mm by 51 mm) extruded aluminum tube frame with tempered glass, laminate-faced, and stained veneer plywood infill panels.
- C. **Aluminum Case Construction:** Aluminum side, bottom, and top panels fabricated from extruded aluminum shapes.
- D. **Face Frame Trim for Recessed Installation:** 2 inch (51 mm) flat face dimension extruded aluminum trim mitered with corner clips and mechanical fasteners.
- E. **Glazed Sliding Doors:**
 - 1. [1/4 inch (6 mm)][3/16 inch (4.76 mm)] clear tempered glass with plastic finger pulls.
 - 2. Door track: Extruded aluminum glass shoe with bottom rollers and top plastic guide.
 - 3. Lock: Glass door cylinder lock and Track plunger lock.
- F. **Glazed Hinged Doors:**
 - 1. [1/4 inch (6 mm)][3/16 inch (4.76 mm)] clear tempered glass framed with 1/2 inch by 1 inch (13 mm by 25 mm) extruded aluminum trim.
 - 2. Hinges: 1 inch by .040 inch (25 mm by 1 mm) nickel-plated steel-continuous piano hinges.
 - 3. Lock: Glass door cylinder lock and Track plunger lock.
- G. **Glass Shelves:**
 - 1. 1/4 inch (6 mm) clear tempered glass with flat-polished edges.
 - 2. Shelf Depth: As indicated on drawings.

3. Shelves per Unit: As indicated on drawings.
- H. **Shelf Standards and Brackets:** Double-slotted channel standards for brackets adjustable in 1 inch (25 mm) increments along entire length of standard, drilled and countersunk for screws.
1. Standards Mounting: Surface-mounted on back panel.
 2. Face Width: 1-1/4 inch (31.75 mm).
 3. Material: 16 gauge, 0.0598 inch (1.52 mm) sheet steel.
 4. Lengths: As indicated on drawings.
 5. Finish: Anochrome.
 6. Brackets: Boltless with lip front; 16 gauge, 0.0598 inch (1.52 mm) sheet steel, reinforced, locking into slots; size to suit shelves; same finish as standards.
- I. **Cable Display Systems:** Sizes and configurations indicated on drawings.
1. **Manufacturers:**
 - a. Nelson Adams NACO:
 - b. Address: 420 S E st, San Bernardino, CA, 92401
 - c. P. (877) 810-4080
 - d. Web Page: <https://www.nelsonadamsnaco.com>
 2. **Description:**
 - a. Tensioned cable display system used to support shelving, panels, and artwork from walls and ceilings with the following components:
 - 1) Suspended Fittings: Top articulated piers.
 - a) Top Fitting Mounting: Ceiling.
 - 2) Wire Cable: 7x7 construction.
 - a) Stainless Steel: ASTM A555/A555M; ASTM A666/A666M, Type 304 or Type 316.
 - b) Size: 1/16-inch (1.5 mm) diameter.
 - c) Cable End: Barrel-End fitting.
 - 3) Cable Gripper Fittings: Provide stainless steel fittings as indicated on drawings.
- J. **Tackable Back Panel:** Vinyl or Fabric on Natural Cork and MDF..
1. **Facing:** [Vinyl][Fabric]; minimum fabric weight: 13 oz/sq yd (440 g/sq m).
 - a. **Multiple options Available:**
 - 1) Koroseal
 - 2) Maharam
 - 3) Guildford of Maine
 - 4) Carnegie Xorel
 - 5) Forbo
 2. **Color, Texture, Weave, and Pattern:** As selected from manufacturer's full range.
 3. **Core:** [1/4" Inch (6 mm) Natural Cork]
 4. **Forbo Bulletin core Option:** [1/4" Inch (6.35 mm) Bulletin Forbo]
 - a. **Color:** As indicated on drawings
 5. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
- K. **Laminate Back Panel:** Low-pressure laminate on one face of [hardboard] substrate.
1. Laminate Color and Texture: As selected from manufacturer's full range.

- L. **Lighting:** Manufacturer's standard [LED][Fluorescent] light fixture housed at top of case with louvered aluminum access door with keyed lock.
 - 1. Surface Mounted: Under cabinet type fixture.
 - 2. Recessed: Fixture with egg crate diffuser.

2.04 MATERIALS

- A. Aluminum Extrusions for Framing and Trim: Alloy as recommended by manufacturer for construction and specified finish; nominal 1/8 inch (3.2 mm) wall thickness.
- B. Aluminum Extrusions: ASTM B221 (ASTM B221M), 6063 alloy, T5 temper.
 - 1. Finish: Factory anodized; AAMA 611: Clear anodized.
- C. Plywood: Fir plywood with particleboard core, waterproof glue, 3/4 inch (19 mm) thick.
- D. Heat-Strengthened and Fully Tempered Glass: ASTM C1048, Kind FT.

PART 3 EXECUTION

3.01 PREPARATION

- A. Finished openings, electrical pre-wiring, and final finishing are by other trades.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Provide factory trained installers.
- C. Refer to drawings for display case mounting heights.
- D. Clean case and glass using manufacturers recommended procedures.
- E. Provide mitered and wrapped hairline joints for all trims.

3.03 ADJUSTING AND CLEANING

- A. Verify that all accessories are installed as detailed for each unit.
- B. At completion of work, clean glass surfaces, back panels and trim in accordance with manufacturer's recommendations leaving units ready for use.

END OF SECTION