

SECTION 06067

PLASTIC AND METAL SURFACING MATERIALS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Standard Decorative Laminates.
- B. Colorthrough Decorative Laminates.
- C. Pearlescent Decorative Laminates.
- D. Custom Decorative Laminates.
- E. Markerboard Laminates.
- F. Metal Laminates.
- G. Fire-Rated Decorative Laminates.
- H. Chemical Resistant Decorative Laminates.
- I. High Wear Decorative Laminates.
- J. Extra Strength Decorative Laminates.
- K. Solid Surfacing Veneer.
- L. Solid Surfacing Material.
- M. Solid Surfacing Material Shaped Goods.
- N. Moldings.

1.2 RELATED SECTIONS

- A. Section 06200 - Finish Carpentry.
- B. Section 06400 - Architectural Woodwork.
- C. Section 12300 - Manufactured Casework.

1.3 REFERENCES

- A. ANSI Z124.6 - Plastic Sinks.

- B. ASTM D 256 - Standard Test Method for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.
- C. ASTM D 570 - Standard Test Method for Water Absorption of Plastics.
- D. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
- E. ASTM D 696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 degrees C and 30 degrees C.
- F. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- G. ASTM D 785 - Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials.
- H. ASTM D 2583 - Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Compressor.
- I. ASTM G 21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- J. ASTM G 22 - Standard Practice for Determining Resistance of Plastics to Bacteria.
- K. FS L-P-508H - Plastic Sheets, Laminated, Decorative and Nondecorative.
- L. NEMA LD 3-1995 - High Pressure Decorative Laminates; National Electrical Manufacturers Association.
- M. ISO 4586-2 - High Pressure Decorative Laminates; International Standards Organization.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Samples:

1. Selection Samples: Submit actual samples of surfacing materials to illustrate full range of colors, patterns, and finishes available.
 2. Verification Samples: Submit two samples, each 12 inches square, illustrating each selected surfacing material in specified color, pattern, and finish.
- C. Manufacturer's Instructions:
1. Submit manufacturer's printed installation instructions for each product.
 2. Submit manufacturer's Safety Data Sheets (M.S.D.S.) for each adhesive.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect, and handle products in accordance with provisions of Section 01600.
- B. Store surfacing materials to prevent breakage and marring of surfaces in accordance with manufacturer's printed instructions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Wilsonart International, 2400 Wilson Place, P. O. Box 6110, Temple, TX 56503-6110; telephone 817-778-2711, FAX 817-770-2384, response line 1-800-433-3222.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted.

2.2 STANDARD DECORATIVE LAMINATES

- A. Acceptable Product: Wilsonart Laminate.
- B. Product Description: Decorative surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.

- C. Standard Decorative Laminate - General Purpose Type:
Wilsonart Type 107, having the following physical characteristics:
1. Sheet thickness: 0.048 inch (1.219 mm) plus/minus 0.005 inch (0.127 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGS.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 50; Smoke developed 45.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- D. Standard Decorative Laminate - Vertical Surface Type:
Wilsonart Type 335, having the following physical characteristics:
1. Sheet thickness: 0.028 inch (0.711 mm) plus/minus 0.004 inch (0.101 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade VGS and VGP.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 55; Smoke developed 65.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- E. Standard Decorative Laminate - Postforming Type:
Wilsonart Type 350, having the following physical characteristics:
1. Sheet thickness: 0.039 inch (1.00 mm) plus/minus 0.005 inch (0.127 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGP.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 60; Smoke developed 35.
 4. Pattern: _____.

5. Finish: _____.
6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
7. Patterns and Finishes: Indicated on drawings.
8. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.3 COLORTHROUGH DECORATIVE LAMINATES

- A. Acceptable Product: Wilsonart Colorthrough Laminate Type 560.
- B. Product Description: Decorative alpha cellulose papers, impregnated with thermosetting resins, bonded under heat and pressure.
 1. Sheet thickness: 0.056 inch (1.422 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995.
 3. Pattern: _____.
 4. Finish: 60.
 5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 6. Patterns and Finishes: Indicated on drawings.
 7. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.4 PEARLESCENT DECORATIVE LAMINATES

- A. Acceptable Product: Wilsonart Pearlescent Laminates.
- B. Product Description: Decorative surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.
- C. Pearlescent Decorative Laminate - Vertical Surface Type: Non-Forming Type 103.
 1. Sheet thickness: 0.030 inch (0.762 mm) plus/minus 0.005 inch (0.127 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade VGS.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 50; Smoke developed 35.
 4. Pattern: _____.
 5. Finish: No.7.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.

7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- D. Pearlescent Decorative Laminate - General Purpose Type: Type 107.
1. Sheet thickness: 0.046 inch (1.168 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 HGS.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 50; Smoke developed 45.
 4. Pattern: _____.
 5. Finish: No.7.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.5 CUSTOM DECORATIVE LAMINATES

- A. Acceptable Product: Wilsonart Custom Laminates.
- B. Product Description: Decorative surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.
- C. Custom Decorative Laminate - General Purpose Type: Type 107.
1. Sheet thickness: 0.046 inch (1.168 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGS.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 50; Smoke developed 45.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- D. Custom Decorative Laminate - Vertical Surface Type: Type 335.

1. Sheet thickness: 0.028 inch (0.711 mm) plus/minus 0.004 inch (0.101 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade VGP.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 55; Smoke developed 65.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- E. Custom Decorative Laminate - Post Forming Type: Type 350.
1. Sheet thickness: 0.039 inch (1.0 mm) plus/minus 0.005 inch (0.127 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGP.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 60; Smoke developed 35.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.6 MARKERBOARD LAMINATES

- A. Acceptable Product: Wilsonart Marker Board Laminate.
- B. Product Description: Overlay saturated with melamine resins and decorative surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.
- C. Markerboard Laminate - Horizontal Grade Type: Type 136.
 1. Sheet thickness: 0.050 inch (1.27 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGS.

3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 40; Smoke developed 115.
- D. Markerboard Laminate - Vertical Grade Type: Type 336.
1. Sheet thickness: 0.028 inch (0.711 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade VGP.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 40; Smoke developed 70.
 4. Color: _____.
 5. Colors: Specified in SCHEDULE Article of this section.
 6. Colors: Indicated on drawings.
 7. Colors: Selected from manufacturer's full range of available selections.
- E. Markerboard Laminate - Fire-Rated Type: Type 636.
1. Sheet thickness: 0.048 inch (1.219 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGF.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 20; Smoke developed 110.
 4. Color: _____.
 5. Colors: Specified in SCHEDULE Article of this section.
 6. Colors: Indicated on drawings.
 7. Colors: Selected from manufacturer's full range of available selections.

2.7 METAL LAMINATES

- A. Acceptable Product: Wilsonart Decorative Metals.
- B. Metal Laminate - "Mirror" Type for Interior Use: Type 401 Mirror Quality.
1. Laminated composite panel having the following components:
 - a. Electroplated mirror surface.
 - b. Aluminum electroplating base sheet.
 - c. Thermoplastic core.
 - d. Aluminum balance sheet.
 - e. Acrylic resin backing.
 2. Minimum overall sheet thickness: 0.079 inch (2 mm).
 3. Maximum overall sheet thickness: 0.118 inch (3 mm).

4. Surface burning characteristics in accordance with ASTM E 84; unbonded: Class I or A rating; Flame spread 0, Smoke developed 5.
 5. Pattern: _____.
 6. Finish: _____.
 7. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 8. Patterns and Finishes: Indicated on drawings.
 9. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- C. Metal Laminate - "Mirror" Type for Exterior Use: Type 401 Mirror Quality.
1. Laminated composite panel having the following components:
 - a. Transparent fluoride resin face coating.
 - b. Electroplated mirror surface.
 - c. Aluminum electroplating base sheet.
 - d. Thermoplastic core.
 - e. Aluminum balance sheet.
 - f. Acrylic resin backing.
 2. Minimum overall sheet thickness: 0.079 inch (2 mm).
 3. Maximum overall sheet thickness: 0.118 inch (3 mm).
 4. Surface burning characteristics in accordance with ASTM E 84: Class I or A rating; Flame spread 0, Smoke developed 15.
 5. Pattern: _____.
 6. Finish: _____.
 7. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 8. Patterns and Finishes: Indicated on drawings.
 9. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- D. Metal Laminate - "Aluminum" Type: Type 418.
1. Laminated composite panel having the following components:
 - a. Anodized aluminum face sheet.
 - b. Phenolic backing.
 2. Overall sheet thickness: 0.046 inch (1.16 mm) plus/minus 0.004 inch (0.101 mm).
 3. Surface burning characteristics in accordance with ASTM E 84: Class I or A rating; Flame spread 5, Smoke developed 0.
 4. Pattern: _____.
 5. Finish: _____.

6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- E. Metal Laminate - "Aluminum" Type: Type 419; anodized aluminum sheet material.
1. Overall sheet thickness: 0.025 inch (0.635 mm) plus/minus 0.002 inch (0.050 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- F. Metal Laminate - "Brass" Type: Type 420.
1. Composite panel having the following components:
 - a. Brass face sheet; 70 percent copper content, 30 percent zinc content.
 - b. Baked transparent synthetic film protective coating.
 2. Overall sheet thickness: 0.020 inch (0.508 mm) plus/minus 0.003 inch (0.076 mm).
 3. Pattern: _____.
 4. Finish: _____.
 5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 6. Patterns and Finishes: Indicated on drawings.
 7. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.8 FIRE-RATED DECORATIVE LAMINATES

- A. Acceptable Product: Wilsonart Fire-Rated Laminate.
- B. Product Description: Fire retardant overlay and decorative alpha cellulose surface papers bonded under heat and pressure to fire retardant resin coated kraft papers impregnated with phenolic resins.
- C. Fire-Rated Decorative Laminate - Vertical Surface Type: Type 604.
1. Sheet thickness: 0.032 inch (0.813 mm).

2. Exceeding performance requirements of NEMA LD 3-1995 Grade VGF.
 3. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded: Flame spread 15; Smoke developed 15.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- D. Fire-Rated Decorative Laminate - General Purpose Type: Type 605.
1. Sheet thickness: 0.050 inch (1.270 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGF.
 3. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded: Flame spread 15; Smoke developed 15.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- E. Fire-Rated Decorative Laminate - General Purpose Type: Type 607.
1. Sheet thickness: 0.059 inch (1.50 mm) plus/minus 0.005 inch (0.127 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade SGF.
 3. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded: Flame spread 15; Smoke developed 25.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- F. Fire-Rated Decorative Laminate - Backer Type: Type 264.

1. Sheet thickness: 0.028 inch (0.711 mm) plus/minus 0.004 inch (0.102 mm).
 2. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded: Flame spread 15; Smoke developed 0.
 3. Pattern: _____.
 4. Finish: _____.
 5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 6. Patterns and Finishes: Indicated on drawings.
 7. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- G. Fire-Rated Decorative Laminate - Backer Type: Type 266.
1. Sheet thickness: 0.048 inch (1.219 mm) plus/minus 0.005 inch (0.127 mm).
 2. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded: Flame spread 20; Smoke developed 0.
 3. Pattern: _____.
 4. Finish: _____.
 5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 6. Patterns and Finishes: Indicated on drawings.
 7. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.9 CHEMICAL RESISTANT DECORATIVE LAMINATES

- A. Acceptable Products: Wilsonart Chemsurf Chemical-Resistant Laminate.
- B. Product Description: Chemical resistant overlay and decorative alpha cellulose surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.
- C. Chemical Resistant Decorative Laminate: Type 190.
1. Sheet thickness: 0.033 inch.
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HCL except for thickness.
 3. Pattern: _____.
 4. Finish: _____.
 5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 6. Patterns and Finishes: Indicated on drawings.

7. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- D. Chemical Resistant Decorative Laminate: Type 390.
1. Sheet thickness: 0.036 inch (0.914 mm) plus/minus 0.005 inch (0.127 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGP except for thickness.
 3. Meeting bacterial resistance and susceptibility requirements of ASTM G 22.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- E. Chemical Resistant Decorative Laminate - Non-Forming Type: Type 690.
1. Sheet thickness: 0.031 inch (0.787 mm) plus/minus 0.004 inch (0.100 mm).
 2. Exceeding performance requirements of NEMA LD 3-1995 Grade VGP.
 3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 50; Smoke developed 85.
 4. Pattern: _____.
 5. Finish: _____.
 6. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 7. Patterns and Finishes: Indicated on drawings.
 8. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.10 HIGH WEAR DECORATIVE LAMINATES

- A. Acceptable Product: Wilsonart High Wear Laminate.
- B. Product Description: Abrasion resistant overlay and decorative surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.
- C. High Wear Decorative Laminate - General Purpose Type: Type 107HW.

1. Sheet thickness: 0.048 inch (1.219 mm) plus/minus 0.005 inch (0.127 mm).
2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGS, High Wear.
3. Pattern: _____.
4. Finish: _____.
5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
6. Patterns and Finishes: Indicated on drawings.
7. Patterns and Finishes: Selected from manufacturer's full range of available selections.

D. High Wear Deocrative Laminate - Vertical Surface Type: Type 335HW.

1. Sheet thickness: 0.028 inch (0.711 mm) plus/minus 0.005 inch (0.127 mm).
2. Exceeding performance requirements of NEMA LD 3-1995 Grade VGS, High Wear.
3. Pattern: _____.
4. Finish: _____.
5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
6. Patterns and Finishes: Indicated on drawings.
7. Patterns and Finishes: Selected from manufacturer's full range of available selections.

E. High Wear Decorative Laminate - Postforming Type: Type 350HW.

1. Sheet thickness: 0.039 inch (1.00 mm) plus/minus 0.005 inch (0.127 mm).
2. Exceeding performance requirements of NEMA LD 3-1995 Grade HGP, High Wear.
3. Pattern: _____.
4. Finish: _____.
5. Patterns and Finishes: Specified in SCHEDULE Article of this section.
6. Patterns and Finishes: Indicated on drawings.
7. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.11 EXTRA STRENGTH DECORATIVE LAMINATES

- A. Acceptable Product: Wilsonart Metal Core Laminate.
- B. Product Description: Abrasion resistant overlay and decorative surface papers, impregnated with melamine

- resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins and metal core sheet.
1. Flame Spread rating 2.19 when tested in accordance with ASTM E 162.
 2. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 15; Smoke developed 5.
- C. Extra Strength Decorative Laminate: Type 927, with 0.020 inch (0.508 mm) thick (27 gage) steel core.
1. Overall sheet thickness: 0.033 inch (0.838 mm) plus/minus 0.004 inch (0.101 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- D. Extra Strength Decorative Laminate: Type 953, with 0.025 inch (0.635 mm) thick alloy 5052-H32 aluminum core.
1. Overall sheet thickness: 0.038 inch (0.965 mm) plus/minus 0.004 inch (0.101 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- E. Extra Strength Decorative Laminate: Type 958, with 0.050 inch (1.270 mm) thick alloy 5052-H32 aluminum core.
1. Overall sheet thickness: 0.063 inch (1.60 mm) plus/minus 0.004 inch (0.101 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- F. Extra Strength Decorative Laminate: Type 960, with 0.063 inch (1.600 mm) thick alloy 5052-H32 aluminum core.

1. Overall sheet thickness: 0.075 inch (1.90 mm) plus/minus 0.004 inch (0.101 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- G. Extra Strength Decorative Laminate: Type 964, with 0.080 inch (2.032 mm) thick alloy 5052-H32 aluminum core.
1. Overall sheet thickness: 0.093 inch (2.362 mm) plus/minus 0.004 inch (0.101 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- H. Extra Strength Decorative Laminate: Type 965, with 0.093 inch (2.362 mm) thick alloy 5052-H32 aluminum core.
1. Overall sheet thickness: 0.106 inch (2.692 mm) plus/minus 0.004 inch (0.101 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.
- I. Extra Strength Decorative Laminate: Type 966, with 0.093 inch (2.362 mm) thick alloy 5052-H32 aluminum core and phenolic backer.
1. Overall sheet thickness: 0.110 inch (2.794 mm) plus/minus 0.004 inch (0.101 mm).
 2. Pattern: _____.
 3. Finish: _____.
 4. Patterns and Finishes: Specified in SCHEDULE Article of this section.
 5. Patterns and Finishes: Indicated on drawings.
 6. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.12 SOLID SURFACING VENEER

- A. Acceptable Product: Wilsonart Solid Surfacing Veneer Type 013.
- B. Product Description: Homogenous sheet material composed of acrylic resins, fire-retardant filler materials, and coloring agents.
1. Sheet thickness: 0.115 inch (3.05 mm) plus/minus 0.010 inch (0.20 mm).
 2. Surface burning characteristics in accordance with ASTM E 84: Class II or B, and as follows:
 - a. Flame spread: Less than 75.
 - b. Smoke developed: Less than 75.
 3. Moisture Absorption, ISO 4586-2: 0.40 percent after 2 hour period in boiling water.
 4. Izod Impact, ASTM D 256, Method A: 0.233 foot-pounds per inch.
 5. Thermal Expansion, ASTM D 696: 0.000019 inch per inch per degree F.
 6. Hardness, ASTM D 2583: 59 Barcol Impressor.
 7. Flexural Modulus, ASTM D 790 (toughness): 6 inch-pounds per cubic inch.
 8. Deflection Temperature under load, ASTM D 648: 90 degrees C.
 9. Stain Resistance, ANSI Z124.6: No effect.
 10. Boiling Water Resistance, NEMA LD 3-1995, Method 3.5: Slight effect.
 11. High Temperature Resistance, NEMA LD 3-1995, Method 3.6: Moderate effect.
 12. Radiant Heat Resistance, NEMA LD 3-1995, Method 3.10: No effect.
 13. Light Resistance, NEMA LD 3-1995, Method 3.3: No effect.
 14. Ball Impact Resistance, NEMA LD 3-1995, Method 3.8, one half pound ball, supported value: No failure at 150 inches.
 15. Specific Gravity: 1.55 grams per cubic centimeter.
 16. Approximate weight: 1.1 pounds per square foot.
 17. Weatherability, ASTM D 2565: Pass.
 18. Fungi Resistance, ASTM G 21: Pass.
 19. Bacterial Resistance, ASTM G 22: Pass.
 20. Pittsburgh Protocol Toxicity: 30 grams.
 21. Pattern: _____.
 22. Finish: _____.
 23. Patterns and Finishes: Specified in SCHEDULE Article of this section.

24. Patterns and Finishes: Indicated on drawings.
25. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.13 SOLID SURFACING MATERIAL

- A. Acceptable Product: Wilsonart Gibraltar Solid Surfacing, Type 050.
- B. Product Description: Homogenous sheet material composed of acrylic resins or polyester/acrylic resin blend, fire-retardant filler materials, and coloring agents.
 1. Nominal sheet thickness: 0.50 inch (13 mm).
 2. Surface burning characteristics in accordance with ASTM E 84: Flame spread 5, Smoke developed 25.
 3. Liquid Absorption, ASTM D 570, for 1/2 inch material thickness: 0.03 percent after 24 hour period.
 4. Izod Impact, ASTM D 256, Method A: 0.242 foot pounds per inch.
 5. Tensile Modulus, ASTM D 638 Nominal: 1.7 million pounds per square inch.
 6. Thermal Expansion, ASTM D 696: 0.0000164 inch per inch per degree F, maximum.
 7. Hardness, ASTM D 2583, Barcol Impressor: 60.
 8. Flexural Modulus, ASTM D 790: 1.6 million pounds per square inch.
 9. Deflection Temperature under load, ASTM D 648: 92 degrees C.
 10. Stain Resistance, NEMA LD 3-1995, Method 3.4: No effect.
 11. Boiling Water Resistance, NEMA LD 3-1995, Method 3.5: No effect.
 12. High Temperature Resistance, NEMA LD 3-1995, Method 3.6: No effect.
 13. Radiant Heat Resistance, NEMA LD 3-1995, Method 3.10: No effect.
 14. Light Resistance, NEMA LD 3-1995, Method 3.3: No effect.
 15. Ball Impact Resistance, NEMA LD 3-1995, Method 3.8, one half pound ball, unsupported: 159 inches.
 16. Specific Gravity: 1.78 grams per cubic centimeter.
 17. Approximate weight: 4.50 pounds per square foot.
 18. Weatherability, ASTM D 2565: Pass.
 19. Fungus Resistance, ASTM G 21: Pass.
 20. Bacterial Resistance, ASTM G 22: Pass.
 21. Pittsburgh Protocol Toxicity: 100 grams.
 22. Pattern: _____.

23. Finish: _____.
24. Patterns and Finishes: Specified in SCHEDULE Article of this section.
25. Patterns and Finishes: Indicated on drawings.
26. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.14 SOLID SURFACING MATERIAL SHAPED GOODS

- A. Acceptable Product: Wilsonart Gibraltar Shaped Goods.
- B. Product Description: Cast items of same homogenous material composed of polyester and acrylic resins, fire-retardant filler materials, and coloring agents, as solid surfacing sheet material.
 1. Offset Double Sink: Product Type BD321; size 29-1/2 inches (749 mm) by 17-1/2 inches (445 mm), 8 inches (203 mm) bowl depth.
 2. Double sink: Product Type BD322; size 30 inches (762 mm) by 18 inches (457 mm), 8 inches (203 mm) bowl depth.
 3. Double Sink: Product Type BD323; size 34 inches (864 mm) by 19 inches (475 mm), 8-1/2 inches (216 mm) bowl depth.
 4. Round Sink: Product Type BK128; size 16-1/4 inches (413 mm) diameter, 7-3/4 inches (197 mm) bowl depth.
 5. Square Sink: Product Type BK222; size 16-3/4 inches (425 mm) by 16-3/4 inches (425 mm), 7-3/4 inches (197 mm) bowl depth.
 6. Rectangle Sink: Product Type BK323; size 10-1/4 inches (260 mm) by 16-3/4 inches (425 mm), 8 inches (203 mm) bowl depth.
 7. Rectangle Sink: Product Type BK324; size 21-1/4 inches (540 mm) by 15-3/4 inches (400 mm), 7-1/2 inches (190 mm) bowl depth.
 8. Bar Sink: Product Type BK325; size 8-3/4 inches (222 mm) by 11-3/4 inches (298 mm), 5-1/2 inches (140 mm) bowl depth.
 9. Disposal Sink: Product Type BK327; size 8 inches (203 mm) by 15-1/2 inches (394 mm), 5-1/2 inches (140 mm) bowl depth.
 10. "D" Bowl: Product Type BK426; size 20-3/4 inches (527 mm) by 16-1/2 inches (419 mm), 7-1/2 inches (190 mm) bowl depth.
 11. Vanity Bowl: Product Type BV111; drop-in type; size 12-3/4 inches (324 mm) by 15-3/4 inches (400 mm), 6 inches (152 mm) bowl depth.

12. Vanity Bowl: Product Type BV121; size 12-3/4 inches (324 mm) by 15-3/4 inches (400 mm), 6 inches (152 mm) bowl depth.
13. Vanity Bowl: Product Type BV122; ADA-approved type; size 12-3/4 inches (324 mm) by 15-3/4 inches (400 mm), 4 inches (102 mm) bowl depth.
14. Vanity Bowl: Product Type BV123; size 13-1/2 inches (343 mm) by 16-1/4 inches (413 mm), 5-1/2 inches (140 mm) bowl depth.
15. Furnish types indicated on drawings.
16. Furnish types indicated on approved shop drawings required in Section 06400, Architectural Woodwork.
17. Furnish types specified in SCHEDULE Article of this section.
18. Pattern: _____.
19. Finish: _____.
20. Patterns and Finishes: Specified in SCHEDULE Article of this section.
21. Patterns and Finishes: Indicated on drawings.
22. Patterns and Finishes: Selected from manufacturer's full range of available selections.

2.15 MOLDINGS

- A. Acceptable Product: Wilsonart Custom Edges.
- B. Bevel Profile Edge Molding Style __.
 1. A-Face: _____ surfacing material, _____ pattern, _____ finish.
 2. B-Face: _____ pattern, _____ finish.
- C. Gibraltar Solid Surfacing Style __ in _____ pattern, _____ finish.
- D. Acrylic Style __ in _____ pattern, _____ finish.
- E. Backsplash Style BS.
 1. A-Face: _____ surfacing material, _____ pattern, _____ finish.
 2. B-Face: _____ pattern, _____ finish.
- F. Wood Molding Style __ in _____ species.
- G. Rounded Corner Molding Style __ in _____ species, _____ inch radius.

- H. Wood Molding Style __, with recess for laminate insert, in _____ species.
- I. Wood Door and Drawer Molding Style __ in Red Oak species.
- J. Furnish types indicated on drawings.
- K. Furnish types indicated on approved shop drawings. required in Section 06400, Architectural Woodwork.
- L. Furnish types specified in SCHEDULE Article of this section.

2.16 ACCESSORY MATERIALS

- A. Adhesives: Provide types as specified in manufacturer's printed installation instructions.

PART 3 EXECUTION

3.1 PREPARATION

- A. Surface preparation: Precondition surfacing materials and surfaces to receive surfacing materials in accordance with manufacturer's printed installation instructions.

3.2 APPLICATION

- A. Install materials in accordance with manufacturer's printed instructions and requirements of Section 06400, Architectural Woodwork.

3.3 SCHEDULE

- A. Room:
 - 1. Fixture:
 - a. Horizontal Surfaces Exposed to View: Product Type; pattern; color; finish.
 - b. Vertical Surfaces Exposed to View: Product Type; pattern; color; finish.
 - c. Semi-exposed Surfaces: Product Type; pattern; color; finish.
 - d. Shaped Goods: Product Type; pattern; color; finish.
 - e. Moldings: Product Type; pattern; color; finish.
- B. Cafeteria:
 - 1. Serving Line Counter and Base:

- a. Tray line surface: High Wear General Purpose Type; "Fleck" pattern; Gray No.12; finish 7.
 - b. Other Horizontal Surfaces Exposed to View: Standard Decorative Laminate, General Purpose Type; solid color, black, matte finish.
 - c. Vertical Surfaces Exposed to View: "Mirror" Type Metal Laminate; pattern 4; finish 7.
 - d. Surfaces not Exposed to View: Backer Type.
2. Beverage Counter:
 - a. Counter Surface: Solid Surfacing; pattern alpha.
 - b. Sink: Solid Surfacing Bar Sink; same pattern.

END OF SECTION