

SECTION 06067

PLASTIC AND METAL SURFACING MATERIALS

NOTE ** This section is based on the full product line of Wilsonart plastic and metal surfacing materials.

NOTE **

NOTE ** For more information on Wilsonart products and availability, or for the name of your local Wilsonart representative, call or write:

NOTE ** Wilsonart International

NOTE ** 2400 Wilson Place

NOTE ** P. O. Box 6110

NOTE ** Temple, TX 76503-6110

NOTE ** Tel: (254) 207-7000

NOTE ** Fax: (254) 207-2384

NOTE ** Response Line: (800) 433-3222.

NOTE **

NOTE ** The section must be edited to delete surfacing types and accessories not required on a particular project and, if more than one type is used, to identify each type with a generic name or type number that can be used to indicate where each type is to be used.

NOTE **

NOTE ** SECTION 06067 - PLASTIC AND METAL SURFACING MATERIALS, Copyright 2000, Wilsonart International.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Standard Decorative Laminates.
- B. Custom Decorative Laminates.
- C. Markerboard Laminates.
- D. Metal Laminates.
- E. Fire-Rated Decorative Laminates.
- F. Chemical Resistant Decorative Laminates.
- G. High Wear Decorative Laminates.
- H. Solid Surfacing Material.

I. Solid Surfacing Material Shaped Goods.

J. Moldings.

K. Backers.

L. Liners.

1.2 RELATED SECTIONS

NOTE ** Delete any sections below not relevant to this project; add others as required.

A. Section 06200 - Finish Carpentry.

B. Section 06400 - Architectural Woodwork.

C. Section 12300 - Manufactured Casework.

1.3 REFERENCES

NOTE ** Delete references from the list below that are not actually required by the text of the edited section.

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 638 - Standard Test Method for Tensile Properties of Plastics.

D. ASTM D 696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 degrees C and 30 degrees C.

E. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

F. ASTM D 785 - Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials.

G. ASTM D 2583 - Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Compressor.

- H. ASTM G 21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- I. ASTM G 22 - Standard Practice for Determining Resistance of Plastics to Bacteria.
- J. NEMA LD 3 current revision- High Pressure Decorative Laminates; National Electrical Manufacturers Association.
- K. ISO 4586-2 - High Pressure Decorative Laminates; International Organization for Standardization.

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 76503-6110; Tel:

(254) 207-7000, Fax: (254) 207-2384, Response Line: (800) 433-3222. email: smartline@wilsonart.com website: www.wilsonart.com

NOTE ** Delete one of the two paragraphs below; coordinate with Division 1 requirements.

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 nominal (1.22mm)
2. Exceeding performance requirements of NEMA LD 3 current revision Grade HGS.
3. Surface burning characteristics in accordance with ASTM E 84; unbonded.
4. Pattern: _____.
5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 nominal (0.71 mm)
2. Exceeding performance requirements of NEMA LD 3 current revision Grade VGS and VGP.
3. Surface burning characteristics in accordance with ASTM E 84; unbonded.
4. Pattern: _____.

5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 nominal (1.00 mm).

2. Exceeding performance requirements of NEMA LD 3 current revision Grade HGP.

3. Surface burning characteristics in accordance with ASTM E 84; unbonded.

4. Pattern: _____.

5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 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 173 or 174.

1. Sheet thickness: 0.048 inch nominal (1.22).

2. Exceeding performance requirements of NEMA LD 3 current revision Grade HGS.

3. Pattern: _____.

4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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. Custom Decorative Laminate - Vertical Surface Type: Type 363 or 364.

1. Sheet thickness: 0.028 inch nominal (0.71 mm).

2. Exceeding performance requirements of NEMA LD 3 current revision Grade VGP.

3. Pattern: _____.

4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 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: 0.048 inch nominal (1.22mm)

2. Exceeding performance requirements of NEMA LD 3 current revision Grade HGS.

3. Surface burning characteristics in accordance with ASTM E 84; unbonded.

D. Markerboard Laminate - Vertical Grade Type: Type 336.

1. Sheet thickness: 0.028 inch nominal (.71mm).

2. Exceeding performance requirements of NEMA LD 3 current revision Grade VGP.

3. Surface burning characteristics in accordance with ASTM E 84; unbonded.

4. Color: _____.

NOTE ** If color is not specified in the two sentences above, indicate location of information or method of selection below. 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.

2.5 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. Overall sheet thickness: 0.079 inch (2 mm).

3. Surface burning characteristics in accordance with ASTM E 84; unbonded.

4. Pattern: _____.

5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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.

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. Overall sheet thickness: 0.118 inch (3 mm).
- 3. Surface burning characteristics in accordance with ASTM E 84.
- 4. Pattern: _____.
- 5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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. 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: 0.040 inch (1 mm) nominal.
- 3. Surface burning characteristics in accordance with ASTM E 84.
- 4. Pattern: _____.
- 5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 nominal (0.64 mm)
- 2. Pattern: _____.
- 3. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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.

2.6 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 nominal (0.813 mm).
2. Exceeding performance requirements of NEMA LD 3 current revision Grade VGF.
3. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded.
4. Pattern: _____.
5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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: 0.048 inch nominal (1.22mm).
2. Exceeding performance requirements of NEMA LD 3 current revision Grade HGF.
3. Surface burning characteristics in accordance with ASTM E 84 or UL 723.
4. Pattern: _____.
5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 nominal (1.50 mm).
2. Exceeding performance requirements of NEMA LD 3 current revision Grade SGF.
3. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded.
4. Pattern: _____.
5. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below.

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: 0.030 inch nominal (0.76 mm).
2. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded.
3. Pattern: _____.
4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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: 0.050 inch nominal (1.27 mm).
2. Surface burning characteristics in accordance with ASTM E 84 or UL 723; unbonded.
3. Pattern: _____.
4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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.

2.7 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 390.
 1. Sheet thickness: 0.03 inch nominal (0.86 mm).
 2. Meeting bacterial resistance and susceptibility requirements of ASTM G 22.
 3. Pattern: _____.
 4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below.

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 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 nominal (1.22 mm) .
 2. Exceeding performance requirements of NEMA LD 3 current revision Grade HGS, High Wear.

3. Pattern: _____.

4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 Decorative Laminate - Vertical Surface Type: Type 335HW.

1. Sheet thickness: 0.028 inch nominal (0.79 mm).

2. Exceeding performance requirements of NEMA LD 3 current revision Grade VGS, High Wear.

3. Pattern: _____.

4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 nominal (.99 mm).

2. Exceeding performance requirements of NEMA LD 3 current revision Grade HGP, High Wear.

3. Pattern: _____.

4. Finish: _____.

NOTE ** If pattern and finish are not specified in the two sentences above, indicate location of information or method of selection below. 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 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.

NOTE ** Include the following for Style XD only, otherwise delete.

3. C-Face: _____ pattern, _____ finish.

C. Gibraltar Solid Surfacing Style __ in _____ pattern, _____ finish.

D. Backsplash Style BS.

1. A-Face: _____ surfacing material, _____ pattern, _____ finish.

2. B-Face: _____ pattern, _____ finish.

NOTE ** Include the following for Style SS only, otherwise delete.

3. C-Face: _____ pattern, _____ finish.

E. Wood Molding Style __ in _____ species.

F. Rounded Corner Molding Style __ in _____ species, _____ inch radius.

G. Wood Molding Style __, with recess for laminate insert, in _____ species.

NOTE ** If product types are not specified in the paragraphs above, indicate location of information or method of selection below.

H. Furnish types indicated on drawings.

I. Furnish types indicated on approved shop drawings. required in Section 06400, Architectural Woodwork.

J. Furnish types specified in SCHEDULE Article of this section.

2.10 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

NOTE ** Verify section number and title of specifications section below.

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

3.3 SCHEDULE

NOTE ** When more than one type of surfacing is specified in this section, it will be necessary to identify where each type is to be used. A schedule may be useful for that purpose, if the types are not to be indicated on the drawings. The following is a suggested format for such a schedule, with an example.

NOTE **

NOTE ** For ease of identification, use the generic product names used in the specification rather than the actual product numbers. Be sure that the specification identifies each different product by a name that can be referred to in the schedule or on the drawings.

NOTE **

NOTE ** For each different product there may also be variations in color, pattern, or finish that need to be scheduled.

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