

SECTION 06 06 20 DECORATIVE PLASTIC LAMINATE

PART 1 GENERAL

1.01 SUMMARY

A. General provisions and requirements of the contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to this section.

B. Section Includes:

1. Standard Decorative Laminates.
2. Custom Decorative Laminates.
3. Marker Board Laminates.
4. Chalk Board Laminates.
5. Fire-Rated Decorative Laminates.
6. Chemical Resistant Decorative Laminates.
7. High Wear Decorative Laminates.
8. Moldings

1.02 RELATED WORK

A. Work related to this section includes:

1. Division 6 Section: Wood Plastics and Composites (Interior Architectural Woodwork, Finish Carpentry, Architectural Wood Casework, Wood Paneling,).
2. Division 8 Section: Interior Doors.
3. Division 10 Section: Interior Specialties (Toilet Partitions).
4. Division 12 Section: Furnishings (Laminate Clad Casework, Specialty Casework, Residential Casework, or Office, Retail, Hospitality, Institutional Furniture).

1.03 REFERENCES

A. Reference Standards*: In addition to requirements, comply with applicable provisions of following for design, materials, fabrication and installation of component parts:

1. NEMA LD3 - National Electrical Manufacturer Association.
2. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

3. ASTM E162 - Surface Flammability and 662 Rate of Smoke Generation.
4. U.S. Coast Guard – Conforms to IMO FTP Code Part 2 (smoke toxicity) and Part 5 (surface flammability)

*Standards vary by product type. Additional certifications exist. Refer to the Tech Data Sheet on the Wilsonart Website or call Tech Services 800-433-3222 for more information as needed.

1.04 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Submit product data, including manufacturer's technical data sheet for specified products, including literature for high-pressure decorative laminate, adhesive for bonding plastic laminate, and substrate information as related.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including edge conditions, panel joints, accessories, designs and textures.
- D. Samples:
 1. Submit selection and verification samples for product type, designs and textures.
- E. Quality Assurance Submittals:
 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties if required
 2. Manufacturer's technical data sheet.
 3. Manufacturer's Safety Data Sheets (M.S.D.S.)

1.05 QUALITY ASSURANCE

- A. Qualifications:
 1. Manufacturer Qualifications: Manufacturer producing product in ISO 9001 certified facility.
 2. Fabricator/Installer must be experienced in performing work of similar type and scope.
- B. Mock-Ups:
 1. Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, texture, pattern and workmanship standards. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.
 2. Mock-Up Size: (Specify mock-up size.).
 3. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.

4. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- C. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.08 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: See manufacturer's technical data sheet for warranty information.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Manufacturer: Wilsonart® International, 2400 Wilson Place Temple, Texas 76503-6110, Phone: 254.207.7000, Toll Free: 800.433.3222, Fax: 254.207.2384, Web Site www.wilsonart.com, sustain.wilsonart.com
- B. Request for substitutions will be considered in accordance with provisions of Section 01 60 00
- C. Substitutions: Not permitted

2.02 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. 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.

2.03 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: Wilsonart 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: Wilsonart 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.

2.04 MARKER BOARD 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: Wilsonart 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.
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.

2.05 CHALK BOARD LAMINATES

- A. Acceptable Product: Wilsonart Chalk 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. Chalk Board Laminate - Horizontal Grade Type: Wilsonart Type 137.
 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. Color: Graphite Nebula or Hunter Nebula.
 5. Finish: #38 only
*NOTE ** If color is not specified in the two sentences above, indicate location of information or method of selection below.*
 6. Colors: Specified in SCHEDULE Article of this section.
 7. Colors: Indicated on drawings.
 8. Colors: Selected from manufacturer's full range of available selections.

2.06 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: Wilsonart 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: Wilsonart 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: Wilsonart 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: Wilsonart 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: Wilsonart 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.

2.07 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: Wilsonart Type 390.
 1. Sheet thickness: 0.034 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.

2.08 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: Wilsonart 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: Wilsonart 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: Wilsonart 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.

2.09 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. 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.

D. Wood Molding Style ___ in _____ species.

E. Rounded Corner Molding Style ___ in _____ species, ___ inch radius.

F. 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.*

G. Edgeband: _____ Width _____ Thickness _____ Pattern _____

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

3.01 PREPARATION

- A. Surface preparation: Precondition surfacing materials and surfaces to receive surfacing materials in accordance with manufacturer's printed installation instructions.
- B. Examine surfaces for conditions that would adversely affect the performance of the decorative or edge performance.

3.02 INSTALLATION

- A. Install materials in accordance with AWS (Architect Woodwork Standards) and requirements of CSI Section 06 40 00, Architectural Woodwork.

3.03 CLEANING AND PROTECTION

- A. Clean decorative plastic laminate in accordance with manufacturer's care and maintenance instructions.
- B. Protect installed product and finish surfaces from damage during construction.

END OF SECTION

