



Specifier General Notes:

The purpose of this guide specification is to specify HardStop™ Decorative Protection Panels for any given project to be included in the project manual or sheet specification. This too could serve as text to "drop-into" laminated related specification sections.

Common Applications:

Wainscot, wall panels, columns, elevator cabs, room dividers, doors, cabinet fronts, counter/desk/bar fronts, backsplash, countertops, etc.

Formica® Brand products support conservation, green design and building practices and may contribute toward many sustainability initiatives including LEED (Leadership in Energy and Environmental Design) building certifications.

Consult Formica Corporation, <http://www.formica.com/en/us> for additional assistance in using this information for additional information not included, laminate types, application, fabrication and the latest colors and finishes.

January 2019.

SECTION 10 26 23.11 – DECORATIVE PROTECTION PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Decorative protection panels.
- B. Related Requirements:

Specifier Note: Select all that apply

- 1. [Division 06 Interior Finish Carpentry.]
- 2. [Division 06 Plastic-Laminate-Faced Wood Paneling.]
- 3. [Division 06 Interior Architectural Woodwork.]
- 4. [Division 10 Plastic-Laminate-Clad Toilet Compartments.]
- 5. [Division 10 Decorative Protection Panels.]
- 6. [Division 12 Plastic-Laminate-Clad Countertops.]
- 7. [Division 12 Plastic-Laminate-Clad Case Goods.]



1.2 REFERENCES

- A. Reference Standards: In addition to requirements, comply with applicable provisions of following for design, materials, fabrication, and installation of component parts:
1. ANSI / NEMA LD-3: High Pressure Decorative Laminates.
 2. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials.
 3. GreenGuard Gold Indoor Air Quality Certified®
 4. Class 1/A Fire-rated (UL723/ASTM E-84).
 5. SEFA 8.1 approved.
 6. ASTM G 22 Bacterial Growth Resistance.

Specifier Note: Select all that apply

7. **[ASTM E 162: Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source.]**
8. **[IMO FTP: International Code for Application of Fire Test Procedures.]**
9. **[IMO FTP Code Part 2: Smoke and Density Test.]**
10. **[IMO FTP Code Part 5: Test for Surface Flammability.]**
11. **[ISO: International Organization for Standardization.]**
12. **[ISO 9001: Quality Management Systems.]**
13. **[LEED: Leadership in Energy and Environmental Design.]**
14. **[NFPA 101: Life Safety Code.]**
15. **[Architectural Woodwork Quality Standards.]**

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

***Specifier Note:
Retain following article / paragraphs if required for any sustainable requirements. Add additional sustainable requirements not listed.
Check also manufacturer's website for current information.***

1.4 ACTION SUBMITTALS

- A. Product Data:



1. Product data for each specified product. Include manufacturer's technical data sheets and published instructions.
- B. Shop Drawings: Each installation.
 1. Anchorages to other construction, including requirements for concealed supports.
 2. Use same unit designations used on Drawings.
- C. Verification Samples: Not less than 5 by 7 inches (127 by 177.8 mm), for each type, color, pattern, and surface finish. Provide actual color samples. Electronic color samples will not be accepted.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For fabricator and installer.
- B. Product Certificates: For the following:
 1. Decorative protection panels.
- C. Evaluation Reports: For fire-retardant-treated materials, from ICC-ES.

Specifier Note:

Retain following article / paragraphs if required for any sustainable requirements. Add additional sustainable requirements not listed. Check also manufacturer's website for current information.

1.6 SUSTAINABLE DESIGN SUBMITTALS

- A. **Product Certificates: For materials manufactured within 500 miles (800 km) of Project, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include distance to Project and cost for each raw material.**
- B. **Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.**
- C. **Laboratory test reports for IEQ 4.1 that indicate compliance with testing and product requirements of California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."**
- D. **General: Products in this section may also be required to comply with sustainability requirements described in Division 01 General Requirements including, but not limited to, the following:**
 1. **GREENGUARD Certification.**



2. **TVOC (Total Volatile Organic Compounds).**
3. **Total Aldehydes.**
4. **Formaldehyde.**

E. [Building Product Disclosure and Optimization – Material Ingredients - Health Product Declaration (HPD).]

F. LEED Rating System Requirements:

1. **Potential Credits for Plastic Laminates:**
 - a. **MR Credit 5, Regional Materials.**
 - b. **IEQ Credit 4.5, Low-Emitting Materials.**
2. **[Potential Credits for Adhesives:**
 - a. **IEQ Credit 3.2, Construction Indoor Air Quality.**
 - b. **IEQ Credit 4.1, Low Emitting Materials, Adhesives.**
 - c. **IEQ Credit 4.4, Low Emitting Materials, Adhesives, Composite wood and Agrifiber products.**
 - d. **IEQ Credit 4.5 Low Emitting Materials.**

G. [Enterprise Green Communities criteria for building certification.]

H. [Green Globes Sustainable Interiors criteria for building certification.]

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Manufacturer’s written maintenance instructions.
- B. Manufacturer warranties transferrable to Owner.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in fabricating and installing decorative plastic laminate finished work with a minimum 3 years experience.
- B. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance with a minimum 3 years experience.

Specifier Note: If project size or complexity justifies cost for Mock-up(s) they can be specified here. Sample text below is for general projects that have full room mockups, such as hospital and hospitality projects.

- C. Mock-Ups:



1. Build mockups to verify selections made under submittals and to demonstrate aesthetic effects, set quality for materials and construction, set quality standard for fabrication and installation.
2. Acceptable mock-ups may remain as part of the Work if undamaged at time of Substantial Completion.
3. Acceptable mock-ups shall be comparison standard for remaining Work.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Package and ready materials according to manufacturer's instructions.
- B. Do not deliver components until Project is fully enclosed.
- C. Store products inside building protected from light, heat and moisture and never store in contact with floor or outside wall surfaces. Do not expose to continuous direct sunlight.
 1. Store horizontally.
 2. Sheets must be handled by two people.
 3. Stored at a temperature per Formica Corporation technical guide requirements.
- D. Provide protective coverings of suitable material. Take special precautions at corners.

1.10 PROJECT CONDITIONS

- A. Coordinate sizes and locations of cut-outs and other related Work specified in other Sections to ensure that interior laminate construction can be supported and installed as indicated.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: Provide decorative protection panels with the following surface burning characteristics as determined by testing identical products per ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 1. Flame-Spread Index: 25 or less.
 2. Smoke-Developed Index: 450 or less.
- B. Source Limitations: Obtain decorative protection panels materials through one source from a single manufacturer.



2.2 MANUFACTURER

A. Manufacturer:

1. Basis of Design: Formica Corporation; HardStop Decorative Protection Panels.
 - a. Contact: <http://www.formica.com/en/us>

B. Decorative Protection Panels

1. Description: Decorative protection panels.
 - a. Impact resistant panels.
2. Panel Core Material: Treated fiberglass core. Class A Fire-rated.
3. Laminate Grade:
 - a. Grade H1, 0.0677 Inches - 0.0827 Inches (1.72mm-2.1mm).
4. Laminate Color(s):

Specifier Note:

Select location of information or list the color selections for the project.

- a. [As indicated on Drawings.]
- b. [Match Architect's samples.]
- c. [As selected by Architect from manufacturer's line of available colors.]
- d. [Laminate Color (include here if not on Drawings).]
- e. [Laminate Color (include here if not on Drawings).]

5. Laminate Finish:

Specifier Note: Select location of finish information or Select finish selection(s) for the project.

- a. [As indicated on Drawings.]
- b. [Match Architect's samples.]
- c. [-58 Matte.]
- d. [-43 Artisan.]

6. Laminate Application(s):

Specifier Note: Select application(s) for the project.

- a. [Wall panels.]
- b. [Wainscots.]
- c. [Laminated to gypsum board.]
- d. [Countertops.]
- e. [Cabinet fronts.]
- f. [Doors.]
- g. [Backsplashes.]
- h. [Bar fronts.]
- i. [Desk fronts.]
- j. [Elevator cab(s).]



- k. [Columns.]
- l. [Room dividers.]

2.3 ACCESSORY MATERIALS

- a. Aluminum Trim Profiles for Seam Treatments:
 - 1) Thicknesses:
 - a) All trims 0.055-inch.
 - b) Corner guard trim 0.065-inch.

Specifier Note:
Select profile(s) for the project.

- 2) Profile Types:
 - a) [Inside corners.]
 - b) [Outside corners.]
 - c) [Division bars.]
 - d) [Corner guards.]
 - e) [End caps.]
- 3) Colors, Finish and Patterns:

Specifier Note:
Select location of information or list the color selections for the project.

- a) [As indicated on Drawings.]
 - b) [Match Architect's samples.]
 - c) [Clear anodized.]
 - d) [Champagne.]
 - e) [Light bronze.]
 - f) [Dark bronze.]
 - g) [Black.]
- b. Adhesives:
 - 1) Bonding Laminate: Franklin Advanced Polymer adhesive recommended. See Formica technical guide for recommended adhesive by substrate type.
 - c. Sealant:
 - 1) Color Coordinated Sealant: 100% silicone caulk material by Color-Rite Incorporated as recommended by Formica Corporation.



2.4 FABRICATION

- A. Conform to Formica Corporation standard practices, procedures, conditions including preconditioning, material recommendations, machining, equipment and workmanship.
- B. Router base should be clean and free of burrs and debris. Table saws should be clean, flat, and free of burrs.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install decorative protection panels in accordance with manufacturer's installation instructions, approved submittals.
- B. Provide templates and rough-in measurements.
- C. Accessory Materials: Install in accordance with manufacturer's written installation instructions.

3.2 CLEANING AND PROTECTING

- A. Cleaning:
 - 1. Clean decorative protection panels and aluminum trims in accordance with manufacturer's instructions.
- B. Protection:
 - 1. Do not permit construction near unprotected surfaces.

END OF SECTION 10 26 23