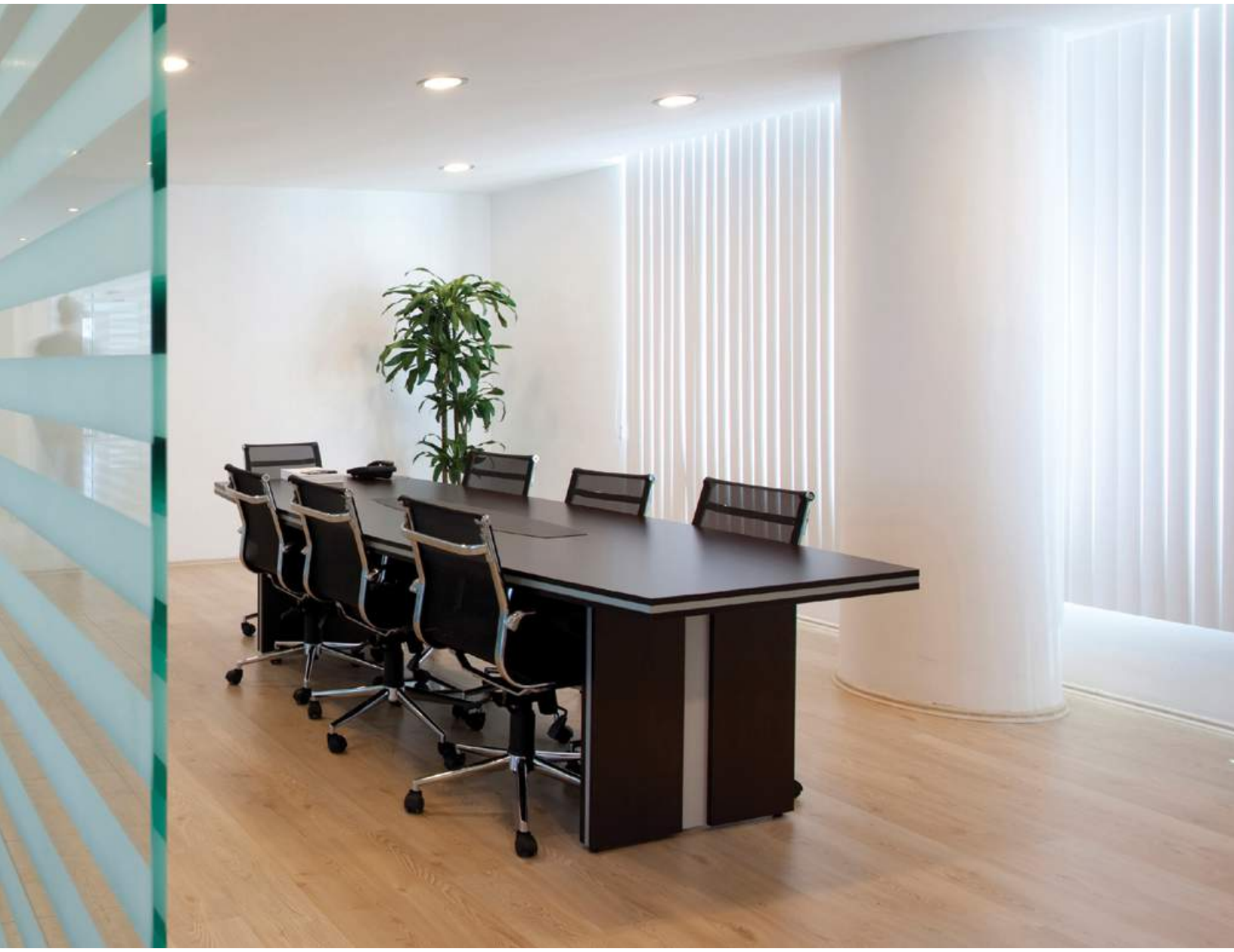
Nova Polymers



Novacryl 10440 Interior Sign Specification

ADA Compliant. PERIOD®

Nova Polymers

Thank you for your interest in Nova Polymers.

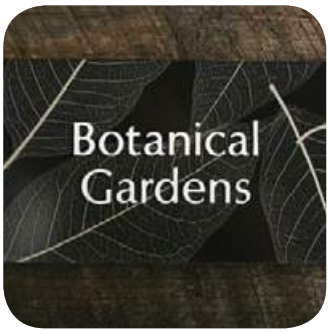
At Nova Polymers, we are committed to customer service, product development/ support and the continual development of progressive product solutions. Our goal is to provide the most creative and diverse range of photopolymer materials to the architectural design and sign fabrication industries.

It is through these commitments, as well as our relationship with the architectural sign community that ensures we are fully capable of exceeding all of your design expectations. Nova continues to be at the forefront of ADA legislation by representing the ISA and SEGD on the International Code Council and is proud to be the industry leader as the focus continues to increase on green building initiatives and sustainable design materials in environmental graphic design. Whether it is innovative materials and equipment, workflow management software or consulting services that can make your process more efficient and profitable; we are there to help.

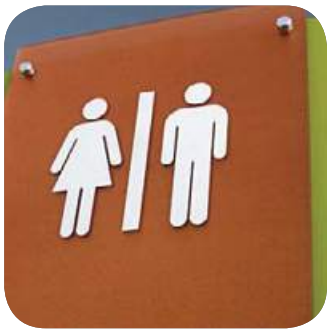
Thank you for your time. If there are any questions, please feel free to contact us directly.

Novacryl®

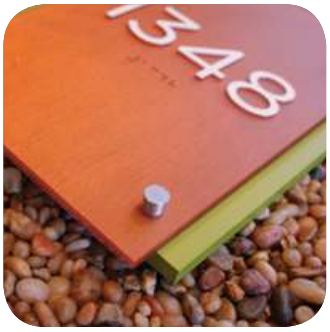
Series

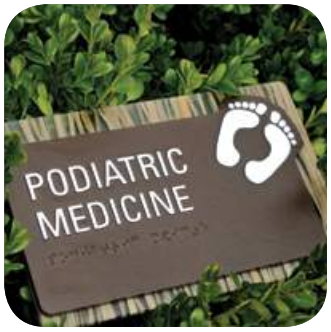


Photopolymer



10440





Novacryl® Series Photopolymer

Section 10440
Interior Signage
Novacryl Series Photopolymer

Display hidden notes to specifier. (Don't know how? Click Here)

NOTE TO SPECIFIER **
This section is based on the products manufactured Nova Polymers, Inc., which is located at:

8 Evans St. Suite 201
Fairfield, NJ 07004 USA
Tel: (888) 484-6682
Tel: (973) 882-7890
Fax: (973) 882-5614
Email: info@novapolymers.com
Website: www.NovaPolymers.com

Nova Polymers, Inc. (NPI) is the manufacturer and distributor of all Novacryl Series Photopolymer substrates. All Novacryl products are manufactured by NPI in the United States and are distributed around the world from multiple locations in the US, Canada, Europe, The Middle East and Australia.

PART 1 GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER ** Remove items below not required for project.**

A. Room Identification.

B. Stairs.

C. Restroom.

D. Elevator Lobby.

E. Informational Signage.

F. Directory Signage.

1.2 RELATED SECTIONS

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

A. Section 10410 - Directories.

B. Section 10420 - Plaques.

1.3 REFERENCES

A. ANSI 117.1 – For Buildings and Facilities

B. ASTM International (ASTM) D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.

C. ASTM International (ASTM) E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

D. ASTM International (ASTM) D1929 - Standard Test Method for Determining Ignition Temperature of Plastics.

E. Underwriters Laboratories (UL) 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.

F. Underwriters Laboratories (UL) 723 - Standard for Test for Surface Burning Characteristics of Building Materials.

G. ASTM E2072-04 - Standard Specification for Photoluminescent (Phosphorescent) Safety Marketing.

H. ASTM E2073-02 - Standard Test Method for Photopic Luminance of Photo Luminescent (Phosphorescent) Markings.

1.4 PERFORMANCE REQUIREMENTS

A. Provide photopolymer signage that conforms to the requirements of all regulatory agencies holding jurisdiction.

**** NOTE TO SPECIFIER ** Retain the next paragraph only if glow in the dark signage is specified.**

B. Provide glow in the dark, photo luminescent material that complies with applicable provisions of ASTM E 2073-02 and DIN 67510. Photo luminescent material must have up to eight hours of luminance.

**** NOTE TO SPECIFIER ** Remove the next paragraph if ADA conformance is not**

required.

C. Requirements:
1. Comply with all applicable provisions of the 2010 ADA Standard for Accessible Design.
2. Character Proportion: Letters and numbers on signs must have a width-to-height ratio between 3:5 and 1:1 and a stroke width-to-height ratio between 1:5 and 1:10.
3. Color Contrast: Characters and symbols must contrast with their background - either light characters on a dark background or dark characters on a light background.
4. Raised Characters or Symbols: Letters and numbers on signs must be raised 1/32 in (0.8 mm) minimum and be sans serif characters. Raised characters or symbols must be at least 5/8 in (16 mm) high but no higher than 2 in (50 mm). Symbols or pictograms on signs must be raised 1/32 in (0.8 mm) minimum.
5. Symbols of Accessibility: Accessible facilities required to be identified must use the international symbol of accessibility.
6. Braille: Grade II with accompanying text.

D. Fire Performance Characteristics:
1. Provide photopolymer signage with surface burning characteristics that consist of a flame spread of 75 and a smoke development of 120 when tested in accordance to UL 723 (ASTM E 84).
2. Self-Extinguishing: Provide photopolymer signage with a CC1 classification for .060 in thick material when tested in accordance with the procedures in ASTM D 635, Standard Test Method for Rate of Burning and/or Extent and Time of Burning Plastics in a Horizontal Position.
3. Vertical Burn: Provide photopolymer material that is classified as 94V-2 for material .118 in thick or greater and 94HB for material .118 in thick or less when tested in accordance with UL 94, Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
4. Self-Ignition Temperature: Provide photopolymer material that has a self-ignition temperature of 800° F (427° C) when tested in accordance with ASTM D 1929.

1.5 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product to be used including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Detail drawings showing sizes, lettering and graphics,

construction details of each type of sign and mounting details with appropriate fasteners for specific project substrates.

**** NOTE TO SPECIFIER ** Remove selection samples if colors already have been selected.**

D. Selection Samples: For each finish product specified, two sets of color sheets representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each sign type and color specified, two samples, minimum size 6 in (150 mm) square, representing actual product, color and patterns.

F. Manufacturer's Installation Instructions: Printed installation instructions for each signage system.

G. Message List: Signage report indicating signage location, text and sign type.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in unopened factory packaging.

B. Inspect materials at delivery to verify there are no defects or damage.

C. Store products in manufacturer's original packaging until ready for installation in climate controlled location away from direct sunlight.

D. Store and dispose of solvent-based materials, and materials used with solvent-based materials in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

A. Install products in an interior climate controlled environment.

B. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Nova Polymers, Inc., which is located at: 8 Evans St. Suite 201; Fairfield, NJ 07004; Toll Free Tel: 888-484-NOVA (6682); Email: request info (info@novapolymers.com); Web: www.novapolymers.com

**** NOTE TO SPECIFIER ** Listing of acceptable fabricators using the Nova Polymers products. Delete fabricators not required.**

- Acceptable Fabricator: AdLight Group, 4150 Elati St., Denver, CO 80216. Phone: (303) 399-3334. Email: Sales@AdLightGroup.com. Web: www.adlightgroup.com.
- Acceptable Fabricator: Advanced Signing LLC, 4 Industrial Park Road, Medway, MA 02053. Phone: (508) 533-9000 ext. 3026. Email: gpiper@advancedsigning.com. Web: www.advancedsigning.com.
- Acceptable Fabricator: ASI, Iowa - Grinnell, IA, 1219 Zimmerman Dr., Grinnell, IA 50112. Phone: (641) 236-6616. Web: www.asisignage.com/ASIIowa/tabid/239/Default.aspx.
- Acceptable Fabricator: Bell Company, 106 Morrow Ave., Trussville, AL 35173-0092. Phone: (800) 828-3564. Email: sales@bellcoinc.com. Web: www.braillebybell.com.
- Acceptable Fabricator: Cab Signs, 38 Livonia Ave, Brooklyn, NY 11212. Phone: (800) 394-1690. Email: sales@cab-signs.com. Web: www.cab-signs.com.
- Acceptable Fabricator: Cadwell Signs, 4 Kuniholm Drive, Holliston, MA 01746. Phone: (508) 429-3100. Web: www.cadwellsigns.com.
- Acceptable Fabricator: Dixie Graphics, 636 Grassmere Park, Nashville TN 37211 Phone: 615-832-7000 Email: info@dixiegraphics.com. Web: www.dixiegraphics.com.
- Acceptable Fabricator: Doganer Signage Systems, Eminel Sanayi Sitesi 1452. Sk. No: 53, OSTİM ANKARA, Turkey. Phone: + 90 312 395 47 10, Email: info@doganermimari.com.tr, Web: www.doganermimari.com.tr

- Acceptable Fabricator: Graphic Components, 3125 Spring Garden St, Greensboro, NC 27407. Phone: (336) 542-2128. Email: vince@graphiccomponents.com. Web: www.graphiccomponents.com.
- Acceptable Fabricator: InPro Corporation, S80 W18766 Apollo Drive, Muskego, WI 53150. Phone: (800) 222-5556. Email: mbudnik@inprocorp.com. Web: www.inprocorp.com.
- Acceptable Fabricator: Kroy Sign Systems, 7575 E Redfield Rd, Suite 113, Scottsdale, AZ 85260. Phone: (800) 950-5769. Email: signs@kroysignsystems.com. Web: www.kroysignsystems.com.
- Acceptable Fabricator: Marvel Sign and Display, Inc., 99 Rodinea Road, Unit 1, Vaughan, Ontario L6A 1R3, Canada. Phone: (905) 856-6920 Email: alan@marvelsigns.ca. Web: www.marvelsigns.ca.
- Acceptable Fabricator: Neiman & Company, 6842 Valjean Ave., Van Nuys, CA 91406. Phone: (818) 781-8600. Email: signs@neimanandco.com. Web: www.neimanandcompany.com.
- Acceptable Fabricator: Nova Polymers, 15348 U.S. Rt. 127 EW, Bryan, OH 43506. Phone: (888) 484-6682. Email: info@novapolymers.com. Web: www.novapolymers.com.
- Acceptable Fabricator: Park Place Sign Systems, Inc., 2019 30th Street, Hannibal, MO 63401. Phone: (573) 221-1360. Email: sales@parkplacesign.com. Web: www.parkplacesign.com.
- Acceptable Fabricator: Sign Pro, 60 Westfield Dr, Plantsville, CT 96479. Phone: (860) 229-1812. Email: pete@signpro-usa.com. Web: www.signpro-usa.com.
- Acceptable Fabricator: Signtech, 4444 Federal Blvd., San Diego, CA 92102. Phone: (619) 527-6100 ext.117. Email: sales@Signtech.com. Web: www.signtech.com.
- Acceptable Fabricator: Tube Art Group, 11715 SE 5th Street, Bellevue, WA 98005. Phone: (206) 223-1122 Email: mwoods@tubeart.com. Web: www.tubeartgroup.com
- Acceptable Fabricator: WSI Sign System Ltd. & KING Architectural Products, 31 Simpson Road, Bolton - Ontario L7E 2R6. Phone: (905) 857-2804. Web: www.king-ap.com.

**** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.**

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 SIGNAGE – GENERAL

**** NOTE TO SPECIFIER ** Remove products from the list below that are not required. The material in this specification is photopolymer manufactured by Nova Polymers, Inc.**

A. It is the intent of these specifications to establish a sign standard for the Owner including but not limited to, wall-mounted directional signs, primary room identification, restrooms, conference rooms and all code compliant Braille signage.

B. Comply with all applicable provisions of the 2010 ADA Standard for Accessible Design codes that apply to the State and Local jurisdiction of the project.

C. If required text and graphics are not indicated in specification or on drawings, obtain Owner's instructions as to text and graphics prior to preparation of shop drawings.

D. Typography: See Drawings. Copy shall be a clean and accurate reproduction of typeface(s) specified. Upper and lower case and all caps as indicated in Sign Type drawings and Signage Schedule. Letter spacing to be set by manufacturer.

E. Arrows, symbols and pictograms will be provided in style, sizes, colors and spacing as indicated in drawings for each sign system.

**** NOTE TO SPECIFIER ** Remove all but one of the following. Grade 2 Braille is the standard in the US with the exception of California. California Braille is Grade 2 Braille with different Braille cell spacing to meet California's codes under Title 24. Grade 1 Braille is used in Canada, the Middle East and throughout the world.**

F. Braille
   1. Grade 1 Braille
   2. Grade 2 Braille
   3. California Braille

G. Design

**** NOTE TO SPECIFIER ** Remove all but one of the following four placements. If more than one is required, indicate clearly where each will be applied.**

1. Text/Graphics Placement: Right justified.
2. Text/Graphics Placement: Centered.
3. Text/Graphics Placement: Left justified.
4. Text/Graphics Placement: As indicated on contract drawings.

**** NOTE TO SPECIFIER ** Remove all but one of the following 11 font options. If more than one is required, indicate clearly where each will be applied. Refer to the 2010 Standard of Accessible design for font thickness, stroke ratio and character spacing which is a minimum of 1/8".**

5. Font: As indicated on the Contract Drawings.
6. Font: Arial.
7. Font: Avenir.
8. Font: Charlotte Sans Book.
9. Font: Futura.
10. Font: Gill Sans.
11. Font: Helvetica Regular.
12. Font: Helvetica Bold.
13. Font: Optima.
14. Font: Stone Sans Serif.
15. Font: Univers Condensed.
16. Font: _____

2.3 MATERIALS

**** NOTE TO SPECIFIER ** Remove products from the list below that are not required. All Novacryl Photopolymer substrate in this section are rated for interior use only. Novacryl PT Series Photopolymer is backed by PETG thermoplastic incorporate a minimum of 40 percent post-industrial recycled content. Novacryl ECR is photopolymer integrally extruded to 3-form Varia™, which has a minimum of 40 percent post-industrial waste content and is GreenGuard® certified. NovAcryl Permaglow 150 has luminescent powder colorants and is the ideal solution for safety and egress signage concerns. All materials must have a topcoat of acrylic polyurethane to ensure protection from cleaning agents, UV and moisture. Novacryl is fire rated for use in applications where fire hazard classification is required.**

A. Panel Material: Novacryl PT Series Photopolymer

**** NOTE TO SPECIFIER ** Novacryl PT is backed by a clear PETG sheet. Delete if not required. Suitable for interior use only.**

1. Composition: 0.032 inch (0.8 mm) thick moisture resistant, non-glare interior nylon photopolymer on ultraviolet resistant clear PETG sign base, single piece construction. Laminated photopolymers, added-on characters, and engraved characters are not acceptable.
2. Sustainable Certification: Minimum 40 percent pre-consumer recycled

content.

**** NOTE TO SPECIFIER ** Delete base thickness not required.**

3. Base thickness: 0.020 inch (0.5 mm) Gloss PETG
4. Base thickness: 0.040 inch (1.0 mm) Non-glare PETG
5. Base thickness: 0.060 inch (1.5 mm) Non-glare PETG
6. Base thickness: 0.080 inch (2.0 mm) Non-glare PETG
7. Base thickness: 0.118 inch (3.0 mm) Non-glare PETG
8. Base thickness: 0.190 inch (4.8 mm) Non-glare PETG
9. Base thickness: 0.236 inch (6.0 mm) Non-glare PETG
10. Base thickness: 0.375 inch (9.5 mm) Gloss PETG
11. Base thickness: 0.472 inch (12.0 mm) Gloss PETG

**** NOTE TO SPECIFIER ** Insert color. Delete color provision not required.**

12. Type and Color: To be selected from manufacturer's full color range by Architect.
13. Size: ____
14. Surface burning characteristics: Flame spread/smoke developed rating less than 75/120, tested to ≈STM E 84 and UL 723.
15. Rate of burning: Tested to ≈STM D 635 at nominal 0.060 inch (1.5 mm) thickness with resulting Classification CC1.
16. Vertical burning: Tested to UL 94, classified as 94V-2 in thickness of 0.118 inch (3.0 mm) or greater and 94HB in thicknesses less than 0.118 inch (3.0 mm).
17. Self-ignition temperature: 800 degrees F (427 degrees C), tested to ASTM D 1929.

**** NOTE TO SPECIFIER ** Novacryl YA is backed by aluminum sheet. Delete if not required. Suitable for interior use only.**

B. Panel Material: Novacryl YA Series Photopolymer
1. Composition: 0.032 inch (0.8 mm) thick moisture resistant interior nylon photopolymer bonded to 0.017 inch (0.4 mm) thick brushed aluminum alloy base.
2. Base thickness: 0.017 inch (0.4 mm) thick brushed aluminum alloy base.

**** NOTE TO SPECIFIER ** Insert color. Delete color provision not required.**

3. Type and Color: To be selected from manufacturer's full color range by Architect.
4. Size: ____

**** NOTE TO SPECIFIER ** Novacryl Permaglow 150 is backed by a photoluminescent sheet. Novacryl Permaglow 150 ensures orderly egress to and inside stairwells and exits, clearly identifies fire extinguishers and emergency aids, and illuminates fire escape and evacuation routes Delete if not required. Suitable for interior use only.**

C. Panel Material: Novacryl Permaglow 150
1. Composition: 0.032 inch (0.8 mm) thick moisture resistant interior nylon photopolymer bonded to 0.047 inch 150/22 photoluminescent rigid PVC.

2. Base thickness: 0.047 inch thick photoluminescent rigid PVC

**** NOTE TO SPECIFIER ** Insert color. Delete color provision not required.**

3. Type and Color: To be selected from manufacturer's full color range by Architect.
4. Size: ____

**** NOTE TO SPECIFIER ** Novacryl ECR is a clear photopolymer layer, extruded into 3forms Varia ecoresin. Varia ecoresin panels contain a minimum of 40 percent recycled content and are SCS certified. Varia ecoresin panels are Greenguard certified indoor air quality. Delete if not required. Suitable for interior use only.**

D. Panel Material: Novacryl ECR Series Photopolymer
1. Composition: 0.032 inch (0.8 mm) thick moisture resistant, non-glare interior nylon photopolymer on 3form Varia Ecoresin PETG sign base, single piece construction. Laminated photopolymers, added-on characters, and engraved characters are not acceptable.

**** NOTE TO SPECIFIER ** All 3form Varia Ecoresin Products comply with SCS certification below, except River Rock Organics, 0.126 gage wire mesh insert, and 0.0625 gage color film inserts. Delete if not required.**

2. Base thickness: Determined by the 3form Varia Ecoresin pattern. Gauge not to exceed 0.0375 inch (9.5 mm)

**** NOTE TO SPECIFIER ** Insert type and color. Delete color provision not required.**

3. Type and Color: To be selected from the 3form Varaia ecoresin line of substrates by Architect. At least one side of the Varia substrate chosen must be flat.
4. Size: ____.

**** NOTE TO SPECIFIER ** Novacryl LP Series is a clear photopolymer layer, extruded to a patterned laminate base. Delete if not required. Suitable for interior use only.**

E. Panel Material: Novacryl LP Series Photopolymer
1. Composition: 0.032 inch (0.8 mm) thick moisture resistant, non-glare interior nylon photopolymer on a Formica, Pionite or Wilsonart laminate sign base, single piece construction. Laminated photopolymers, added-on characters, and engraved characters are not acceptable.

**** NOTE TO SPECIFIER ** Delete if not required.**

2. Base thickness: Determined by the 3form Varia Ecoresin pattern. Gauge not to exceed 0.0375 inch (9.5 mm)

**** NOTE TO SPECIFIER ** Insert type and color. Delete color provision not required.**

1. Type and Color: To be selected from Wilsonart, Pionite or Formica laminates by Architect. The pattern can be a solid color, wood grain or other textures. The finish must be flat and either matte, suede or gloss.
2. Size: ____.

PART 2 EXECUTION

2.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

2.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

2.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

2.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION