



PART 1 — GENERAL

1.0 RELATED DOCUMENTS

- A. Interior high performance adhesively applied solid polymer wall lining and accessory moldings.

1.1 SUMMARY

- A. Interior waterproof, washable, solid polymer wall panels:
 1. Commercial Wall Panels (Typically 4' x 8', 10', 12').
 2. Material Standards, Performance, and Qualifications.
 3. Product Color, Size, and Performance Availability.
 4. Installation and Material Protection.
 5. Product Care and Cleaning.
 6. Specification Language.
- B. Related Sections include the following:
 1. Parkland™ NRP-ULTRA LEED applicability: See section 1.5 F. LEED submittals. See manufacturer's product content statement available upon request.

1.2 RELATED SECTIONS

- A. Section 06050 Wood and Plastics.
- B. Section 06820 Glass Fiber Reinforced Plastics.
- C. Section 09770 Special Wall Surfaces and Plastics
- D. Section 10260 Wall and Corner Guards.

1.3 REFERENCED STANDARDS

- A. American National Standards Institute (ANSI).
- B. ASTM International (ASTM):
 1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 2. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- C. American Wood Council (AWC).
- D. National Electrical Manufacturers Association (NEMA).
- E. National Fire Protection Agency (NFPA).
- F. Underwriters Laboratory (UL).

1.4 DEFINITION

- A. Parkland NRP-ULTRA wall panels defined as: Non-porous, solid waterproof polymer alloy wall panels, featuring integral reinforcement, pigments, and high performance polymer modifiers, and meeting applicable building materials standards; NEMA, UL, ANSI, ASTM, NFPA, and California Proposition 65 and having minimum physical, performance, and environmental properties specified.
- B. Appearance: Monochrome colored, textured, and decorative-clad flat panels.
- C. Fire Test Response Characteristics (2mm):
 1. Products passes flame spread and smoke developed standards for ASTM E-84 Class-A (I) surface burning characteristics.
 2. UL 263
- D. Composition: Solid polymer alloy with integral polymer or mineral reinforcement, and specialty additives and performance enhancers.

- 1.5 ** NOTE TO SPECIFIER ** Parkland™ NRP-ULTRA installations provide a unique variety of features including waterproof composition, available decorative laminated panel face, and Class-A per ASTM E-84 flame and smoke characteristics.



PART 1 — GENERAL (CONT.)

1.6 SUBMITTALS

- A. Submit under provisions of Sections Section 06050, 06820, 09770, and 10260.
- B. Product Data: Full suite of documents available for glue-up panels, one and two-piece divider moldings, and available decorative and protective panel faces, and fasteners, including; Installation Guide, Layout Guide, various specialty guides, warranty and general information.
- C. Shop Drawings: NRP-ULTRA wall panels install with specialty trowel-based adhesives onto properly prepared interior subwalls. Show location of each item, dimensioned plans, details, attachment locations, notch and cutout locations, and any other components required prior to commencement of work.
 - 1. Show locations and sizes of cutouts, holes, and fixture information for wall panels.
 - 2. Show location of notches, mechanical penetrations, and special areas.
- D. Samples: For each type of product specified, 3.5 inch x 5 inch square sample of NRP-ULTRA material in specified texture and color.
 - 1. Cut sample and seam together for representation of manufacturer's seaming system.
 - i. Seam with divider molding
 - ii. Seam with silicone sealant
 - iii. Sealant-free waterproof seam
 - iv. Polymer welded panel seam
 - 2. Indicate full range of color and pattern variation.
 - 3. Approved samples will be retained by manufacturer as a standard for work.
- E. Engineering Calculations: General contractor or project architect shall submit any required engineering calculations as per local and state building codes, showing the installed panels and attachment systems meet all applicable project requirements and building codes
- F. LEED Submittals:
 - 1. Panel weight
 - a. Panel weights for, .090", and .160" thicknesses are .7 Lb./ S.F., and .4 Lb/ S.F. respectively.
 - 2. MR Credit 5.1 and 5.2 Regional Materials:
 - a. Product origin: Middlebury, Indiana, USA
 - 3. IEQ Credit 4.1 Low Emitting Materials: Adhesives and Sealants
 - a. Parkland NRP-Ultra components are not known to contain any VOC materials and have no intentionally added VOC content.
- G. Maintenance Data:
 - 1. See section 1.91, and Use and Care Guide for more information.

1.7 QUALITY ASSURANCE QUALIFICATIONS

- A. Parkland NRP-ULTRA commercial grade heavy-duty wall panels comprised of 100% solid polymer alloy maintaining specified ANSI/NEMA/ASTM performance standards and having specified physical, performance, and environmental specifications. NRP-ULTRA is available in a selection of finishes, and custom wall panels are available from Parkland Plastics.
- B. Environment: Parkland Plastics NRP-ULTRA panels shall be used in building interiors that are climate-controlled, with a typical ambient temperature between 55 and 80 degrees Fahrenheit(16 to 27 degrees C) and stable relative humidity at moderate indoor levels (typically 20%- 40% RH).
- C. Installer Qualifications: Work of this section shall be by an experienced, qualified installer.
- D. Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, seam locations, and other components prior to commencement of work.

1.8 WARRANTY

- A. Provide manufacturer's warranty against defects in materials.
 - 1. Warranty shall provide material to repair or replace defective materials returned to manufacturer as specified in manufacturer's warranty.
 - 2. Warranty shall not cover damage caused by physical or chemical abuse, misuse, incompatibility of materials, improper installation, or inappropriate installation environment, or damage from insufficient anchoring into structure, adverse conditions at time of construction or thereafter, or aesthetic concerns over undressed or uncovered edges.

PART 1 — GENERAL (CONT.)

1.8 WARRANTY (continued)

- A. Provide manufacturer's warranty against defects in materials. (continued)
 - 3. Warranty shall be non-transferable to subsequent owners.
 - 4. Manufacturer's Warranty Period: 1 year.
 - 5. Wall panels to be warranted by manufacturer.

1.9 DELIVERY, STORAGE AND HANDLING

- A. Do not deliver components to project site until areas are ready for installation.
- B. Store NRP-ULTRA materials indoors at the temperature that the room will be during occupancy for at least 48 hours prior to installation. Verify the installation area has temperature and moisture levels suitable for indoor installation and use.
- C. Installer to handle materials to prevent damage to finished surfaces, place protective coverings over installation to prevent physical damage or staining, and for duration of project.

1.91 MAINTENANCE

- A. Removal of stains with common janitorial bleach-free cleaners. Occasional cleaning with a mild janitorial surface cleaner (e.g. Windex®, Fantastik®) will remove occasional dust or dirt, and maintain the beauty of exposed components.
 - 1. Routine and regular cleaning with mild soapy water solution.
 - 2. With routine cleaning dirt and stains will not build up, see Use and Care Guide for more information.
 - 3. NRP-ULTRA family products may be pressure-washed with mild detergent with excellent results. **Use a fan spray pattern with pressure under 1000 PSI and keep nozzle at least 18" from surface.** Test pressure settings and distance from the nozzle to the tile surface for good results prior to commencement of work as excess pressures can damage surface finish.
- B. Acceptable Cleaning Materials:
 - Soapy Water
 - Formula 409® All Purpose Cleaner
 - Fantastik® Multi-Purpose Cleaner
 - Cascade® 5% detergent solution
 - Windex Multi-Surface® Cleaner
 - Kaboom® with OXI CLEAN® Stain Fighter
 - Windex® Multi-Surface Cleaner with Vinegar
 - NRP-ULTRA surfaces may be sanitized with Clorox® Anywhere® Hard Surface™ Daily Sanitizing Spray
- C. See appropriate product Use and Care Guide for more information.

PART 2 — PRODUCTS

2.0 MANUFACTURER

- A. **Parkland Plastics™**
104 Yoder Drive, Middlebury, INDIANA 46540 USA • 1-800-835-4110

2.1 PRODUCT DESCRIPTION

- A. Description:
 - 1. Parkland™ NRP-ULTRA wall panels defined as non-porous, waterproof 100% polymer alloy wall panels, meeting applicable building; NEMA, UL, ANSI, ASTM, NFPA materials standards, and having minimum physical, performance, and environmental properties specified.
- B. Typical In-Stock Sheet Thickness, Size, Color, and Textures (Call for custom product.).
 - 1. NRP-ULTRA Panels

Thickness	Color	Texture	Size	ASTM E-84
0.090"	White	Smooth, Glossy	4' x 8'	Class-A (I)*
	Niagara Mist		4' x 10'	
	Sierra Sand		4' x 12'	

*Based on Steiner tunnel testing per ASTM test standard E-84.

PART 2 — PRODUCTS (CONT.)

2.2 PERFORMANCE CHARACTERISTICS

A. Product Performance Table

ASTM E-84 [1]	Flame Spread	<25 Class-A ++
ASTM E-84 [1]	Smoke Developed Index	<450 Class-A ++
ASTM D-4060 [1]	Taber Abrasion (wear resistance)	White 0.077 Niagara Mist 0.041 Sierra Sand 0.063
ASTM D-256 [1]	Notched Izod Impact Resistance	0.3133 ft. lbf/in.
ASTM D-696 [1]	Coefficient / Therm. Expansion	22.3 x 10 ⁻⁶ in/in/°F
ASTM D-3273 [1]	Resistance to Growth of Mold/Mildew	Rated 10 - both sides
ASTM D-1308 [1]	Cleanability/Stain Test*	Stain Rating 24 (range 20-200)
ASTM D-570 [1]	Water Absorption	0.06%

1-NRP ULTRA 0.090" sheet thickness; NEMA results based on the NEMA LD 3-2000; ++ Based on Steiner tunnel testing per ASTM test standard E-84.
 *Reagents available on request.

B. Institutional Affiliations and Approvals:

1. National Association of Home Builders (NAHB) Complete testing results available.
2. International Building Code (IBC), passes code 2603.10.
3. Member US Green Building Council (USGBC)
4. Underwriters Laboratories (UL), products are UL Classified.
5. Underwriters Laboratories: UL Classified under NFPA 286.

2.3 MATERIAL QUALIFICATIONS

- A. NRP-ULTRA scrap can be recycled as grade #3 material.
- B. Does not support the growth of mold or mildew.
- C. All products 100% fiberglass-free.

2.4 ACCESSORIES, ADHESIVES, AND SEALANT

- A. Panel-to-panel moldings, corner moldings, end cap moldings.
- B. Panel adhesives [All 100% VOC-free]:
 1. Spray-Lock spray aerosol non-VOC adhesive, UL listed (22 oz can).
 2. Parkland™ Panel Adhesive (trowel-grade, 2 & 5 gallon tub).

PART 3 — EXECUTION [INSTALLATION PROCESS]

3.0 EXAMINATION

- A. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- B. Prepare work area using the methods recommended by the manufacturer for achieving the best result for occupied use conditions.
- C. If site preparation is the responsibility of another installer, notify Architect in writing of any deviations from manufacturer's recommended installation and use conditions.

PART 3 — EXECUTION [INSTALLATION PROCESS] (CONT.)

3.1 INSTALLATION: Installer shall:

- A. Install components plumb, level and rigid, scribed to adjacent finishes, leaving minimum 1/16" gaps at all surfaces and walls, fixtures and openings in accordance with approved specifications and product data.
 1. Form field joints using manufacturer's recommended accessories, and seal joints with approved sealant if specified.
 2. Cut and finish component edges to a smooth appearance and feel with ordinary tools and fine sandpaper.
 3. Carefully dress joints smooth, remove surface residue and clean entire surface.

3.2 REPAIR

- A. Repair dinged or damaged panels with utility knife, plastic file, or fine sandpaper. Replace panels that cannot be repaired to Architect's satisfaction.

3.3 CLEANING AND PROTECTION

- A. Keep components clean during installation, or clean and cover with protective covering.
- B. Remove excess adhesives, sealants and other stains.
- C. Where specified, protect surfaces from damage during construction.

3.4 MATERIAL SCHEDULE

- A. Wall panels:
 1. Product: NRP-ULTRA _____
 2. Panel Texture: _____
(Smooth, Glossy)
 3. Panel Color: _____
(White, Niagara Mist, Sierra Sand)
 4. Panel Thickness: _____
(0.060", 0.090")

ARCHITECT'S SPECIFICATION:

NRP-ULTRA

Walls shall be covered with 100% waterproof mineral-reinforced densified polymer alloy panels of 1/8" [.090"] nominal thickness. Panels shall feature protective surface texture as specified. All wall panel materials to be 100% fiberglass-free content. Wall panel adhesive shall be 100% VOC-free. Adhesive may be trowel grade or aerosol-type. Any aerosol spray propellant shall be of medical grade only. All joints and seams shall feature minimum gaps for expansion of 1/16", and use manufacturer's specified accessory moldings for all seams, corners, and edges. Base moldings and chair rails shall be of solid polymer construction. Sealant shall be approved by the panel manufacturer.

For more information call: 800.835.4110 • or Visit: www.parklandplastics.com

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