

PART 1 — GENERAL

1.0 SUMMARY

- A. Products covered in this publication are: NRP®, NRP-FR, NRP-ULTRA and POLYWALL™.
- B. 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.
- C. Related sections and/or documents include the following:
 - 1. Parkland™ NRP® LEED applicability: see section 1.5 F. LEED submittals. See manufacturer's product content statement available upon request.

1.1 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.

1.2 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 Underwriters Laboratory (UL).
- F. National Sanitation Foundation (NSF).
- G. International Code Council Evaluation Service (ICC-ES).

1.3 DEFINITION

- A. Parkland™ NRP® wall panels defined as: Non-porous, solid waterproof polymer alloy wall panels maintaining the same composition throughout the part, featuring integral reinforcement, pigments, and high performance polymer modifiers, and meeting applicable building materials standards; NEMA, UL, ANSI, ASTM, 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:
 - 1. Products pass flamespread and smoke developed standards for Class-A (I) or Class C (III) performance under ASTM E-84.
- D. Composition: Solid polymer alloy with integral polymer or mineral reinforcement, and specialty additives and performance enhancers.

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

1.5 SUBMITTALS

- A. Submit under provisions of Sections Section 06050, 06820, 09770, and 10260.

PART 1 — GENERAL (CONT.)

1.5 SUBMITTALS (continued)

- 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® 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 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. MR Credit 4.1 and 4.2 Recycled Materials:
 - a. NRP and POLYWALL™ panels contain minimum 80% post industrial waste by weight.
 - b. Panel weights for .060", .090", and .150" thicknesses are .4 Lb./ S.F., .5 Lb./ S.F., and .9 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 components are not known to contain any VOC materials and have no intentionally added VOC content.
- G. Maintenance Data:
 - 1. See section 1.9, and Use and Care Guide for more information..

1.6 QUALITY ASSURANCE QUALIFICATIONS

- A. Parkland NRP commercial grade wall panels comprised of 100% solid polymer alloy maintaining specified ANSI/NEMA/ASTM performance standards and having specified physical, performance, and environmental specifications. NRP is available in a selection of finishes, and custom wall panels are available from Parkland Plastics.
- B. Environment: Parkland Plastics materials 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.

1.7 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.
 - 3. Warranty shall be non-transferable to subsequent owners.
 - 4. Manufacturer's Warranty Period: 1 year.

PART 1 — GENERAL (CONT.)

1.7 WARRANTY (continued)

- A. Provide manufacturer's warranty against defects in materials.
 - 5. Wall panels to be warranted by manufacturer.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Do not deliver components to project site until areas are ready for installation.
- B. Store NRP 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.

1.9 MAINTENANCE

- A. Removal of stains with common janitorial bleach-free cleaners. Occasional cleaning with a mild janitorial surface cleaner (e.g. Windex®, Kaboom®) 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 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 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® wall panels defined as non-porous, waterproof 100% polymer alloy wall panels maintaining the same composition throughout the part, meeting applicable building; NEMA, UL, ANSI, ASTM materials standards, and having minimum physical, performance, and environmental properties specified.

PART 2 — PRODUCTS (CONT.)

2.1 PRODUCT DESCRIPTION (continued)

B. Typical In-Stock Sheet Thickness, Size, Color, and Textures (Call for custom product.)

Panel Type	Thickness	Texture	Available Colors	Panel Size	Fire Rating	Installation	Available Accessories
NRP	0.060"	Matte	Bright White, Almond	4' x 8'	Class -C (III)	Glue Up Over Drywall	Monochrome Moldings
	0.090"	Silk, NuMatte, Cracked-Ice					
NRP-FR**	0.060"	Matte	Bright White, Antique White, Monterey, Khaki	4' x 8'	Class -A (I)***	Glue Up Over Drywall	Monochrome Moldings
	0.090"	Cracked-Ice, NuMatte, Stucco	White, Almond	4' x 10'			
NRP-ULTRA**	0.090"	Smooth, Linen, Custom	White, Custom	4' x 8', 10' 12'	Not Rated	Mechanically Fastened Over Drywall	Monochrome Moldings for 1/2" thickness
	0.160"	Smooth, Linen, Woodgrain, Custom	White, Light Grey, Beige, Custom				
PLAS-TEX® THICK PANELS	1/4"	Matte	Bright White, Almond, Grey, Pewter, Black	4' x 8', 10' 12'	Not Rated	Mechanically Fastened Over Drywall	Monochrome Moldings for 1/2" thickness
	3/8"			4' x 8', 10' 12'			
	1/2"			4' x 8', 10'			
	5/8"			4' x 8'			

* Special order VOCs below detectable limits – none detectable VOC materials able to be found. ** Class A performance; applies to NRP-FR and NRP-ULTRA products, others are Class-C (III).. *** All Class-A and Class-C performance rated under ASTM E-84 Steiner Tunnel testing for flame spread and smoke developed.

2.2 PERFORMANCE CHARACTERISTICS

A. Product Performance Table

POLYWALL™	1/16" nominal thickness, 100% waterproof recycled panel with superior impact and value.
NRP	Nominal 1/8" thickness, 100% fiberglass-free, and VOC-free with superior moisture, impact and handling properties of conventional FRP-type panels.
NRP-FR	Do not support mold or mildew per ASTM G-21. ICC-ES Research Report # 3117. Meets ASTM E-84 Class A [1].
NRP - ULTRA	Meets ASTM E-84 Class A [1]. White panel is NSF approved. Decorative options include linens, tile, woodgrains, and marbles. Superior wear resistance.

[1] Per ASTM E-84 Steiner Tunnel for flame spread and smoke developed.



PART 2 — PRODUCTS (CONT.)

2.2 PERFORMANCE CHARACTERISTICS (continued)

- B. Institutional Affiliations and Approvals:
 1. Complete NAHB stain testing results available
 2. International Building Code (IBC), passes code 2603.10.
 3. Member US Green Building Council (USGBC)
 4. National Sanitation Foundation (NSF)

2.3 MATERIAL QUALIFICATIONS

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

2.4 ACCESSORIES, ADHESIVES, AND SEALANT

- A. Panel-to-panel moldings, corner moldings, end cap moldings.
- B. Panel-to-panel moldings, corner moldings, end cap moldings.
 1. Spray-Lock spray aerosol non-VOC adhesive, UL listed (22 oz can).
 2. Parkland Panel Adhesive (trowel-grade, 2 & 5 gallon tub).
- C. PLAS-TEX® Thick Panels are installed with mechanical fasteners.

PART 3 — EXECUTION [INSTALLATION PROCESS]

3.0 EXAMINATION

- A. Examine wall areas site conditions for compliance with requirements for installation tolerances, and other conditions affecting performance of work.
- B. 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.
- C. Prepare work area using the methods recommended by the manufacturer for achieving the best result for occupied use conditions.
- D. If site preparation is the responsibility of another installer, notify Architect in writing of any deviations from manufacturer's recommended installation and use conditions.

3.1 INSTALLATION

- 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.

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

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®, NRP-FR, PLAS-TEX®, NRP-ULTRA)
2. Panel Texture: _____
(Cracked-Ice, Matte, NuMatte, Smooth, Glossy)
3. Panel Color: _____
(White, Cool White, Almond, Grey, Khaki, Niagara Mist, Mocha, Pewter, Black)
4. Panel Thickness: _____
(0.060", 0.090, 0.250", 0.325", 0.500", 0.625")

ARCHITECT'S SPECIFICATION:

NRP®

Walls shall be covered with 100% waterproof mineral-reinforced densified polymer alloy panels of 1/8" [.090"] nominal thickness. Panels shall feature surface texture as specified. Panel material shall be composed of no less than 80% recycled content by weight. All wall panel materials to be 100% fiberglass-free, VOC-free, and PVC-free content. Wall panel adhesive shall be 100% VOC-free. Adhesive may be trowel grade or approved 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.

NRP-FR

Walls shall be covered with 100% waterproof mineral-reinforced densified polymer alloy panels of 1/8" [.090"] nominal thickness. Panels shall feature surface texture as specified and pass requirements for Class A (ASTM E-84). All wall panel materials to be 100% VOC-free and fiberglass-free content. Wall panel adhesive shall be 100% VOC-free. Adhesive may be trowel grade or approved 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.

ARCHITECT'S SPECIFICATION (continued):

PLAS-TEX®

Walls shall be covered with 100% waterproof mineral-reinforced densified polymer alloy panels of 1/4"-5/8" nominal thickness. Panels shall feature surface texture as specified. Panel material shall be composed of no less than 80% recycled content by weight. All wall panel materials to be 100% fiberglass-free, VOC-free, and PVC-free content. For panels greater than 3/16" (5mm) – use approved mechanical fasteners 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.

NRP-ULTRA

Walls shall be covered with 100% waterproof mineral-reinforced densified polymer alloy panels of 1/8" [.090"] nominal thickness. Panels shall feature surface texture as specified. All wall panel materials to be 100% fiberglass-free content and pass requirements for Class A (ASTM E-84). Wall panel adhesive shall be 100% VOC-free. Adhesive may be trowel grade or approved 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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