



A PRODUCT OF PROPERTY PROTECTION INTERNATIONAL INC.

SECTION 10 2 800

WASHROOM ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Washroom Accessories:

1. Mirrors.

1.2 RELATED Sections

- A. Section 061000 - Rough Carpentry, coordination with blocking.**
- B. Section 092000 - Plaster and Gypsum Board, coordination with blocking.**
- C. Section 093000 - Tiling, coordination with layout and installation.**
- D. Section 102113 - Toilet Compartments, coordination with accessories.**

1.3 REFERENCES

Multi-Layer Film Portion

American National Standards Institute (ANSI):

- 1) ANSI Z97.1 - Safety Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings.**
- 2) ANSI Z26.1-96 – Safety Glazing Materials**
- 3) American Society for Testing and Materials (ASTM):**
- 4) ASTM D 882 - Tensile Properties of Thin Plastic Sheeting.**
- 5) ASTM D 3330 - Peel-Adhesion at 180 Degree Angle.**
- 6) ASTM E 84-16 - Surface Burning Characteristics of Building Materials.**
- 7) ASTM E 162-16 – Flame Spread**
- 8) ASTM E 662-17 – Smoke Generation**
- 9) ASTM D 523-14 – Standard Test Method For Specular Gloss**

Consumer Product Safety Commission

- 1) CPSC 16 CFR 1201**



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Acrylic Portion

- 1) ASTM D570 Water Absorption
- 2) ASTM D790 Flexural Strength
- 3) ASTM D732 Shear Strength
- 4) ASTM D785 Rockwell Hardness
- 5) ASTM D2843 Smoke Density Rating
- 6) ASTM D1929 Self Ignition Temperature
- 7) ASTM E84 Flame Spread Index

1.4 PERFORMANCE REQUIREMENTS

Multi-Layer Film Portion

- A. Fire Performance: Surface burning characteristics when tested in accordance ASTM E 84-16:
- 1) Flame Spread: 25, maximum.
 - 2) Smoke Developed: 450, maximum.
 - 3) Must meet Class A Interior Wall and Ceiling Finish
- B. Abrasion Resistance: Film must have a surface coating that is resistant to abrasion such that, a gloss factor less than 0.6% at 20 degrees and 60 degrees per ANSI Z26.1-96 Test 17
- C. Specular Gloss >99.8 at gloss angle of 85 degrees per ASTM D 523

Acrylic Portion

- D. Fire Performance: Surface burning characteristics when tested in accordance ASTM E 84
- 1) Flame Spread: 140, maximum.
 - 2) Smoke Density Rating: 13.5, maximum.

1.5 SUBMITTALS

A. Product Data: Submit manufacturer's data sheets for each product specified, including the following:

- 1) Installation instructions and recommendations.
- 2) Storage and handling requirements and recommendations.
- 3) Cleaning and maintenance instructions.
- 4) Replacement parts information.

B. Schedule: Submit a toilet accessory schedule, indicating the type and quantity to be installed in each washroom. Use room numbers as indicated on the Drawings.



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C. USGBC LEED Submittals:

1) LEED Innovation credit category

- a) Credit for the positive contributions the use of this product will always have.
- b) In an existing building drastically increasing the building's envelope resiliency by its application.
- c) Vandalism Abatement Solutions built in via application.
- d) Increasing the occupant's comfort via acoustic performance
- e) Operational cost benefit scenario strategy via restoration and low-cost alternative to replacements

To qualify for an Innovation Credit, we have to achieve a significant measurable environmental performance using a strategy not addressed within the respective LEED Green Building rating system. Further to be successful one must "identify the following:

- the intent of the proposed innovation credit.
- proposed requirements for compliance.
- proposed submittals to demonstrate compliance; and
- the design approach or strategies used to meet the requirements."

2) LEED Sustainable Sites Credit Category

- a) PEEL Mirror System Abatement Solutions Products are an effective facility management choice and solution to the abatement of vandalism issues as a sacrificial surface in new construction as well as a restorative solution for many surfaces that may have been abused within both the LEED v4 for New Construction and Major Renovation and the LEED v4 for Operations & Maintenance: Existing Buildings rating systems projects. The major benefit that will be seen with the use of PEEL Mirror System maintenance and management aspects and resiliency to damage, vandalism and graffiti. These benefits are referenced as contributors for Innovation in Design or Operations Credits.

3) LEED Material Resources Credit Category

- a) PEEL Mirror System Abatement Solutions Products provide a positive contribution to reducing the need to replace a mirror every time it is damaged by use, vandalism, or other. Saving substantial capital resources and ... importantly... keeping these building surfaces and materials from impacting landfill contributions! Within this category PEEL Mirror System Abatement Solutions Products may contribute to the attainment of MR Building life-cycle impact reduction.
- b) PEEL Mirror System Abatement Solutions Products inherently has protective surfaces that mitigate from vandalism damage caused by scratching, scuffing with sandpaper, carbide drill bit, keys, knife and etching compounds, thus increasing the usable life of interior products and finishes. When considering materials and resources credits in new buildings certainly a very efficient material is desired, yet PEEL Mirror System Abatement Solutions Products have a large quantity of recyclable content within their Abatement Solutions Products that emulate a Mirror, which can contribute to gaining that credit in a newly constructed building.
- c) Within Existing Building Purchasing and Maintenance and Renovation policies, exists the opportunity to add products such as PEEL Mirror System Abatement Solutions Products with their substantial resiliency and restorative benefits and further contributions to waste management policies when considering the ability for the product to be recycled at the end of its exceedingly



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long service life as compared material replacement options. Each mirror can be replaced with a manufactured replacement to mount in existing cleats and or areas without replacement of parts or re-mounting.

- d) PEEL Mirror System Abatement Solutions Products are manufactured in Anaheim, California 92806. New Construction projects within a 100-mile and 250-mile radius of this location can use this information to document their MR Credit Building product disclosure and optimization – sourcing of raw materials Option 2 as they contain a minimum of 35% recycled content: MR Credit Building product disclosure and optimization – material ingredients Option 3. Product Manufacturer Supply Chain Optimization (1 point)

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of ten years' industry experience.

B. Installer Qualifications: All products listed in this section are to be installed by a single installer with minimal experience in installing products of the same type and scope as specified.

1. Finish areas designated by Architect.
2. Do not proceed with the remaining work until workmanship is approved by the Architect.
3. Refinish mock-up area as required to produce acceptable work.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

C. Please recycle materials to reduce carbon footprint.

1.8 PROJECT CONDITIONS

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

1.9 WARRANTY

A. PEEL Mirror System is warranted for 1 year per manufacture. See manufacturer or distributor for further info.



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PART 2 PRODUCTS

2.1 MANUFACTURER

A. Acceptable Manufacturer:

Property Protection International, Inc.

2940 E. La Palma Ave Suite C

Anaheim, CA 92806

(714) 860-4460

Sales@propertyprotectionint.com

www.propertyprotectionint.com or www.peelmirrorsystem.com

2.2 MIRRORS

A. Shatter Resistant, Theft Proof Washroom Mirrors

Multi-Layer Film Portion

Anti-Graffiti Mirror System: Mirror Shield 24-Mil Multi-Layer Anti-Graffiti Film. Mirror Finished polyester film that mimics a mirror when installed with a durable acrylic abrasion resistant coating over one surface and a pressure sensitive adhesive over the other. The film may be laminated to other clear polyester film layers to achieve the desired thickness of the film.

1. Physical / Mechanical Performance Properties:

- a. Film Color: Reflective/Mirrored.
- b. Thickness: Nominal 24.0 mils (0.024 in).
- c. Tensile Strength (ASTM D 882):28,000-30,000 lbs/psi.
- d. Break Strength (ASTM D 882) (Per Inch Width): 190 lbs.
- e. Elongation at Break (ASTM D 882): >100 percent.
- f. Peel Strength: 1,000 g/inch. ASTM D 3330)
- g. Abrasion Resistance: ANSI Z26.1-96 Test 17 with a gloss factor less than 0.6% at 20 degrees and 60 degrees
- h. Safety Glazing Materials Performance Characteristics (ANSI Z26.1)

Pass The Following Tests:

1. Light stability test 1
 2. Abrasion test 17
 3. Chemical resistance test 19
 4. Temperature change test 28
- i. Impact (ANSI Z97.1 and CPSC CFR 1201)



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1. Meet requirements of CPSC, Category I, ANSI Class B
- j. Surface Burn Radiant Heat Source (ASTM E 162-16)
 1. Radiant panel index of 0 (zero)
- k. Surface Burn Building Materials (ASTM E 84-16)
 1. Flame spread index = 0
 2. Smoke develop index = 110
- l. Optical Density of Smoke (ASTM E 662-17)
 1. Ds = 0 @ 1.5 min
 2. Ds = 0 @ 4 min
 3. Ds Max < 3 Radiant Source
 4. Ds Max < 74 Pilot Flame
- m. Uniformity: No noticeable pin holes, streaks, thin spots, scratches, banding or other optical defects.
- n. Specular Gloss >99.8 at gloss angle of 85 degrees per ASTM D 523
- o. Identification: Labeled as to Manufacturer as listed in this Section.
- p. Acid Resistant Topcoat. Must have an acid resistant topcoat that does not mar during a vandal attack when acid etching agents are used. The acid agent must wipe off clean and leave no residue in topcoat.
- q. Numbered Peel Point for easy layer removal and visible number of layers left on mirror.

Acrylic Portion

1. Physical / Mechanical Performance Properties:
 - a. Acrylic Color: Black.
 - b. Tensile Strength (ASTM D638): 11,000 lbs/psi
 - c. Water Absorption (ASTM D570): .02%
 - d. Flexural Strength (ASTM D790): 14,700 lbs/psi
 - e. Shear Strength (ASTM D732): 11,200 lbs/psi
 - f. Rockwell Hardness (ASTM D785): M-100
 - g. Smoke Density Rating (ASTM D2843): 13.5%
 - h. Self Ignition Temperature (ASTM D1929): 750 f
 - i. Flame Spread Index (ASTM E84): 140

PART 3 EXECUTION



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3.1 INSTALLATION

- a) Install products with manufacturer's written instructions and recommendations, including the following:
 - a. Verify blocking has been installed properly to comply with local building codes.
 - b. Verify location does not interfere with door swings or use of fixtures.
 - c. Use supplied fasteners (pick/key tool, cleats, level, screws, washers, anchors, and multi-surface drill bit) suitable for substrate and project conditions.
 - d. Use Offset Spacer for uneven surfaces that may interfere with flat wall mounting.
 - e. Install units rigid, straight, plumb, and level, with provided fasteners in accordance with manufacturer's installation instructions and approved shop drawings.
 - f. Test for proper operation.

3.2 CLEANING AND PROTECTION

- a. Protect installed products from damage by subsequent construction activities, until substantial completion of project.
- b. Field repair of damaged product finishes is prohibited. Replace products that have been damaged by subsequent construction activities.
- c. Remove protective paper after work is complete.
- d. Clean exposed surfaces of compartments, hardware, and fittings using methods acceptable to the manufacturer.

3.3 NEW AND REPLACEMENT PARTS

- a. MK-1836C PEEL Mirror System Complete Kit (includes all hardware)
- b. MK-1836R PEEL Mirror System Replacement (less hardware, cleats, pick and key tool)
- c. MK-IK Installation Kit (screws, washers, anchor, level, and drill bit)
- d. MK-MC Mirror Cleats (2 per package)
- e. MK-OS Offset Spacer (1/4" thick offset for uneven surfaces)
- f. MK-PKL Pick, Key, and Lanyard for film layer removal.

END OF SECTION