

DIVISION 10 26 16.13 5000/5055 WALL GUARD

PART 1 - GENERAL

1.01 SUMMARY

A. Wall guard systems for wall protection and decoration

1.02 SECTION INCLUDES

A. 5000/5055 Wall Guard Systems

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
- B. National Building Code of Canada (NBC)
- C. National Fire Protection Association (NFPA)
- D. Society of Automotive Engineers (SAE)
- E. Underwriters Laboratory (UL)
- F. Underwriters Laboratory of Canada (ULC)
- G. Uniform Building Code (UBC)

1.04 SYSTEM DESCRIPTION

A. Performance Requirements: Provide wall guard systems that conform to the following requirements of regulatory agencies and the quality control of IPC Door and Wall Protection Systems, InPro Corporation.

1. Fire Performance Characteristics: Provide UL Classified wall guards conforming with NFPA Class A fire rating. Surface burning characteristics, as determined by UL-723 (ASTM E-84), shall be flame spread of 10 and smoke development of 350 - 450. Provide ULC (Canada) listed wall guards conforming to the requirements of the National Building Code of Canada 2010, Subsection 3.1.13. Surface burning characteristics, as determined by CAN/ULC-S102.2, shall be flame spread of 15 and smoke developed of 35.

2. Self-Extinguishing: Provide wall guards with a CC1 classification, as tested in accordance with the procedures specified in ASTM D-635-74, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position, as referenced in UBC 52-4-1988.

3. Impact Strength: Provide rigid vinyl profile materials that have an Impact Strength of 30.2 ft-lbs/inch of thickness as tested in accordance with the procedures specified in ASTM D-256-90b, Impact Resistance of Plastics.

4. Chemical and Stain Resistance: Provide wall guards that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.

5. GREENGUARD Certified: Provide GREENGUARD Certified material. Profiles shall meet the requirements of GREENGUARD Certification Standards for Low-Emitting Products and GREENGUARD Product Emission Standard for Children & Schools.

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6. Fungal and Bacterial Resistance: Provide rigid vinyl that does not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22.

7. Color Consistency: Provide components matched in accordance with SAE J-1545 - (Delta E) with a color difference no greater than 1.0 units using CIE Lab, CIE CMC, CIE LCh, Hunter Lab or similar color space scale systems.

1.05 SUBMITTALS

A. Product Data: Manufacturers printed product data for each type of wall guard specified.

B. Detail Drawings: Mounting details with the appropriate fasteners for specific project substrates.

C. Samples: Verification samples of wall guard, 8" (203mm) long, in full size profiles of each type and color indicated.

D. Manufacturers Installation Instruction: Printed installation instructions for each wall guard.

1.06 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in unopened factory packaging to the jobsite

B. Inspect materials at delivery to assure that specified products have been received.

C. Store in original packaging in a climate controlled location away from direct sunlight.

1.07 PROJECT CONDITIONS

A. Environmental Requirements: Products must be installed in an interior climate controlled environment.

1.08 WARRANTY

A. Standard IPC Limited Lifetime Warranty against material and manufacturing defects.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Acceptable Manufacturer: IPC Door and Wall Protection Systems, Inpro Corporation, PO Box 406 Muskego, WI 53150 USA;
Telephone: 800-222-5556, Fax: 888-715-8407,
Internet address: <http://www.inprocorp.com>

B. Substitutions: Not permitted

C. Provide all wall guards and wall protection from a single source.

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2.02 MANUFACTURED UNITS

A. Wall Guard Profile

1. 5000 Wall Guard, 4" (102mm) height x 1" (25mm) depth
2. 5055 Wall Guard, 4" (102mm) height x 1" (25mm) depth, with 2-1/2" (64mm) accent strip
3. Options: Curved wall guard, specify radius. Minimum radius - 3 feet (.91m)

2.03 MATERIALS

A. Vinyl: Snap on cover of .080" (2mm) thickness shall be extruded from chemical and stain resistant polyvinyl chloride with the addition of impact modifiers. No plasticizers shall be added (plasticizers may aid in bacterial growth).

B. Aluminum: Continuous aluminum retainer of .080" (2mm) thickness shall be fabricated from 6063-T5 aluminum, with a mill finish.

2.04 COMPONENTS

A. End caps, inside corners, outside corners and brackets shall be made of injection molded thermoplastics.

B. Fasteners: All mounting system accessories appropriate for substrates indicated on the drawings shall be provided.

2.05 FINISHES

A. Vinyl Covers: Colors of the wall guard to be selected by the architect from the IPC finish selection. Surface shall have a pebblette texture.

B. Molded Components: End caps, inside corners, outside corners and brackets shall be of a color matching the wall guards. Surface shall have a pebblette texture.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine areas and conditions in which the wall guard systems will be installed.

1. Complete all finishing operations, including painting, before beginning installation of wall guard system materials.

B. Wall surface shall be dry and free from dirt, grease and loose paint.

3.02 PREPARATION

A. General: Prior to installation, clean substrate to remove dust, debris and loose particles.

3.03 INSTALLATION

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A. General: Locate wall guard as indicated on the approved detail drawing for the appropriate substrate, and in compliance with the IPC installation instructions. Install wall guard level and plumb at the height indicated on the drawings.

B. Installation of 5000/5055 Wall Guards: Material must be stored, installed and used in environmentally controlled conditions

1. Cut the aluminum retainer to the required length, allowing 15/16" (24mm) for end caps, 1/4" (6.5mm) for outside corners and 1-5/16" (33mm) for inside corners. Allow 1/16" (1.5mm) between the end caps/corners and the retainer for adjustments when attaching the vinyl cover.

2. Drill 1/4" (6mm) holes on the centerline of the aluminum retainer, 4" (102mm) from each end and spaced evenly over the entire length (6 anchors per 12' (3.66m) length). When installing rubber spacers, use a spacer as a template and transfer the holes to the retainer before drilling (6 rubber spacers per 12' (3.66m) length). NOTE: If mounting on concrete or brick, drill 1/4" (6mm), 3/8" (9.5mm) from each end of the retainer at the correct centerline location for end caps or corners.

3. Position and level the aluminum retainer on the wall, allowing for end caps and corners, and transfer the mounting holes to the wall with a marker. Drill 1/4" (6mm) holes at each mark and position the ALLIGATOR anchors into the holes on the wall. Mount the retainer with #10 x 1-3/4" phillips pan head screws. If rubber spacers are used, attach them behind the aluminum retainer. When used, rubber spacers are required at all mounting holes, and behind end caps and corners. When installing brackets, use a 3/4" drill bit for toggle wings or a 1/2" drill bit for lead anchors to drill the marked holes on the wall.

4. Slide the end caps and corners onto the aluminum, leaving a 1/16" (1.5mm) gap for adjustments and secure them with two 1-1/4" self-tapping screws per end cap or four per corner. NOTE: If mounting on concrete or brick, use the #10 x 1-3/4" phillips pan head screws to secure end caps or outside corners.

5. Cut the vinyl impact bumper to the distance between the inside edge of the end caps, corners or splices. Position the vinyl impact bumper on the inner aluminum retainer guides and push the bumper over the guides until it snaps into place.

6. Cut the vinyl cover to the distance between the end caps and corners. NOTE: Trim all factory edges square before installation. Position the vinyl cover on the aluminum retainer to check the fit. Adjust the end caps and corners, in order to obtain a tight fit with the vinyl cover. Position the vinyl cover on the retainer and push over the retainer until it snaps into place.

3.04 CLEANING

A. At completion of the installation, clean surfaces in accordance with the IPC clean-up and maintenance instructions.

END OF SECTION

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