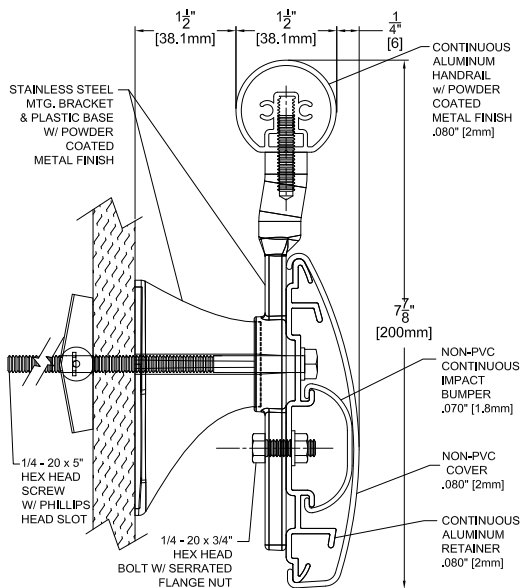


G3500MV Silhouette Handrail



- ▶ 77/8" (200mm) height x 1 1/2" (38mm) gripping diameter, extends 3 1/4" (82mm) from the wall
- ▶ Handrail has an aluminum wall thickness of .080" (2mm)
- ▶ Handrail is available in 10 Metal Tone finish options
- ▶ Lower wall guard is mounted on a sturdy .080" (2mm) thick, continuous aluminum retainer
- ▶ Wall guard is covered with a scratch and stain resistant, .080" (2mm) thick, non-PVC cover
- ▶ Wall guard available in 100 standard colors and seven Woodland patterns
- ▶ .070" (1.8mm) continuous impact bumper
- ▶ Meets ADA and ANSI criteria
- ▶ Manufactured in 8' - 16' (2.44m - 4.88m) standard lengths
- ▶ All mounting fasteners are included with each order
- ▶ May qualify for LEED MR Credit 4.1 = 1 credit; MR Credit 4.2 = 1 credit



IPC.670/REV.1

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INPro
IPC Interior Protection Products
and Decorative Surfaces

G3500MV Silhouette Handrail

Suggested Specifications

PART 1 GENERAL

1.01 SUMMARY

- A. Handrail systems that is PVC free for pedestrian safety and wall protection

1.02 SECTIONS INCLUDES

- A. G3500MV Silhouette Handrail System, aluminum handrail with integrated PVC free wall guard

1.03 REFERENCES

- A. American National Standards Institute (ANSI)
B. American Society for Testing and Materials (ASTM)
C. American with Disabilities Act (ADA)
D. Environmental Protection Agency (EPA)
E. Kitchen Cabinets Manufacturers Association (KCMA)
F. National Emission Standards for Hazardous Air Pollutants (NESHAP)
G. National Fire Protection Association (NFPA)
H. Society of Automotive Engineers (SAE)

1.04 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide aluminum handrail systems with integrated wall guard 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 aluminum handrail components conforming with NFPA Class A fire rating. Surface burning characteristics, as determined by ASTM E-84, shall be flame spread of 0 and smoke development of 5.
2. Fire Performance Characteristics: Provide PVC free profile materials conforming with NFPA Class A fire rating. Surface burning characteristics, as determined by ASTM E-84, shall be flame spread of 10 and smoke development of 300.
3. Impact Strength: Provide PVC free profile materials that have an Impact Strength of 19 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 PVC free materials that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.
5. Chemical and Stain Resistance: Provide powder coated metals that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.
6. Fungal and Bacterial Resistance: Provide powder coated metal components that do not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22.
7. Fungal and Bacterial Resistance: Provide PVC free material that does not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22.
8. 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.
9. Code Compliance: Provide handrails that comply with all current ANSI and ADA requirements.

1.05 SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each product indicated in this section.
B. Detail Drawings: Mounting details with appropriate fasteners for specific project substrates.
C. Samples: Verification samples of handrail, 10" (254mm) long, in full size profiles with mounting brackets of each type indicated.
D. Manufacturer's Installation Instructions: Printed installation instructions for each handrail.
- #### 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 environment away from direct sunlight.
- #### 1.07 WARRANTY
- A. Standard IPC limited lifetime warranty against material and manufacturing defects.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer: IPC Door and Wall Protection Systems, InPro Corporation, PO Box 406, Muskego, WI 53150 USA;
Telephone 800-543-1729, Fax: 888-715-8407,
Internet address: www.inprocorp.com
B. Substitutions: Not permitted
C. Provide all handrails and wall protection from a single manufacturer.

2.02 LEED Criteria

- A. Provide PVC free handrail systems with metal components that have recycled content.

1. MR CR4.1, 10% (post-consumer + 1/2 pre-consumer), 1 Credit
2. MR CR4.2, 20% (post-consumer + 1/2 pre-consumer), 1 Credit

2.03 MANUFACTURED UNITS

- A. Aluminum/PVC free Handrail System
1. G3500MV Silhouette Handrail, 7-7/8" (200mm) height x 1-1/2" (38mm) gripping diameter, system extends 3-1/4" (83mm) from the wall. System includes 1-1/2" (38mm) diameter aluminum handrail and an integrated 5" (127mm) PVC free wall guard.

2.04 MATERIALS

- A. Aluminum:
1. Continuous aluminum handrail of .080" (2mm) thickness shall be fabricated from 6063-T5 aluminum with a powder coat finish.
 2. Continuous aluminum retainer of .080" (2mm) thickness shall be fabricated from 6063-T5 aluminum with a mill finish.
- B. Stainless Steel:
1. Stainless steel brackets, returns and corners shall be #4 satin finish.
- C. Polycarbonate/acrylonitrile butadiene styrene (PC/ABS):
1. Extruded PC/ABS: Snap-on wall guard covers of .080" (2mm) thickness shall be extruded from chemical and stain resistant PC/ABS. Inner snap-on impact bumper

of .070" (1.8mm) thickness shall be extruded from chemical and stain resistant PC/ABS.

- D. Acrylonitrile butadiene styrene (ABS)

1. Molded components: Returns and corners shall be made of chemical and stain resistant ABS.

2.05 COMPONENTS

- A. Handrail returns, outside corners and inside corners shall be stainless steel and a finish/color to match handrails or brushed stainless.
B. Stainless steel brackets shall be fabricated from cast stainless steel with a brushed finish or a solid color powder coat metal tone finish.
C. Molded corners and brackets shall be made of injection molded thermoplastic and a color matching the wall guard.
D. Fasteners: All mounting systems accessories appropriate for substrates indicated on the drawings shall be provided.

2.06 FINISHES

- A. Handrail Color: Color of the handrail to be selected by the architect from the InPro Corporation metal tone color palette.
B. Extruded Covers: Color of the wall guard cover to be selected, by the architect, from the IPC finish selection. Surface shall have a pebblette texture.
C. Stainless Steel Brackets
1. Color of the stainless steel bracket to be selected by the architect from the solid color metal tone color palette.
 2. Color of stainless steel brackets shall be #4 satin finish stainless steel.
- D. Molded Bracket Components: Molded bracket components shall be of a color matching the wall guard. Surface shall have a pebblette texture.

PART 3 EXECUTION

3.01 INSTALLERS

- A. Installer should be familiar with the installation of fine finished wood products.

3.02 EXAMINATION

- A. Examine areas and conditions in which handrail will be installed.

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

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

3.03 PREPARATION

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

3.04 INSTALLATION

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

3.05 CLEANING

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

