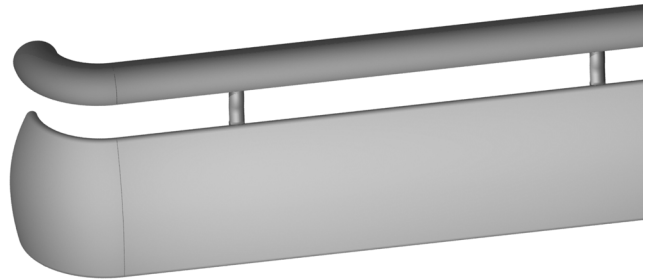
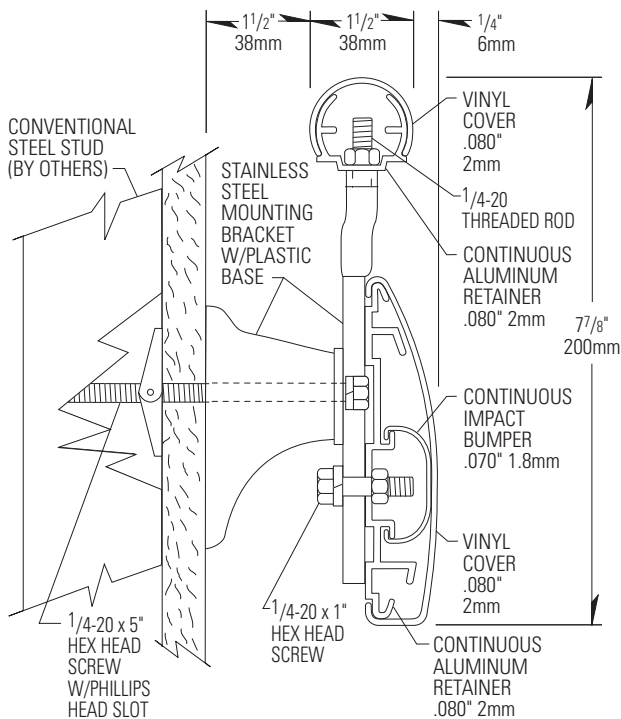


3500 Silhouette Handrail



Product Guide ⓘ



- ⓘ 7 7/8" (200mm) height x 1 1/2" (38mm) gripping diameter, extends 3 1/4" (82mm) from the wall
- ⓘ Mounted on a sturdy .080" (2mm) thick, continuous aluminum retainer
- ⓘ .080" (2mm) thick, scratch and stain resistant rigid vinyl cover
- ⓘ Meets ADA and ANSI criteria
- ⓘ Manufactured in 12' standard lengths
- ⓘ All mounting fasteners are included with each order

IPC.322/REV.2

3500 Silhouette Handrail

Suggested Specifications

PART 1 GENERAL

1.01 SUMMARY

A. Handrail systems for pedestrian safety and wall protection

1.02 SECTIONS INCLUDES

A. 3500 Silhouette Handrail System.

1.03 REFERENCES

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

1.04 SYSTEM DESCRIPTION

A. Performance Requirements: Provide handrail system with integrated impact bumpers 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 impact bumper 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 impact bumper conforming to the requirements of the National Building Code of Canada 1990, 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 impact bumpers 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 impact bumpers that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.

5. 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.

6. Color Consistency: Provide thermoplastic 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.

7. 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. Loaner Samples: Verification samples of handrail, 15" (381mm) long, in full size profiles with one return and one mounting bracket of each type and color indicated. Return samples to IPC after review.

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 800-222-5556, 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 MANUFACTURED UNITS

A. Handrail

1. 3500 Silhouette Handrail, 7 7/8" (200mm) height x 1-1/2" (38mm) gripping diameter, system extends 3-1/4" (82mm) from the wall. Integrated vinyl cover, 5" (127mm) high. Inner impact bumper, 1-7/8" (48mm) high.

2. Options: Curved handrail, specify radius. Minimum radius - 3 feet (.91m)

2.03 MATERIALS

A. Vinyl: Snap-on vinyl covers of .080" (2mm) thickness shall be extruded from chemical and stain resistant polyvinyl chloride with the addition of impact modifier. Inner snap-on vinyl impact bumper of .070" (1.8mm) thickness shall be extruded from chemical and stain resistant polyvinyl chloride with the addition of impact modifier. 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.

C. Stainless Steel: Brackets shall be made of type 304 stainless steel with a plastic base.

2.04 COMPONENTS

A. Molded returns, inside corners, outside corners and brackets shall be made of injection molded thermoplastic.

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

2.05 FINISHES

A. Vinyl Covers: Color of the vinyl cover to be selected, by the architect, from the IPC finish selection. Surface shall have a pebble texture.

B. Inner Impact Bumper: Color of the inner impact bumper to be black.

C. Molded Components: Returns, inside corners, outside corners and brackets shall be of a color and texture matching the vinyl covers.

D. Stainless Steel: Exposed surfaces of brackets shall be #4 satin finish.

PART 3 EXECUTION

3.01 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.

3.02 PREPARATION

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

3.03 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.

3.04 CLEANING

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

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