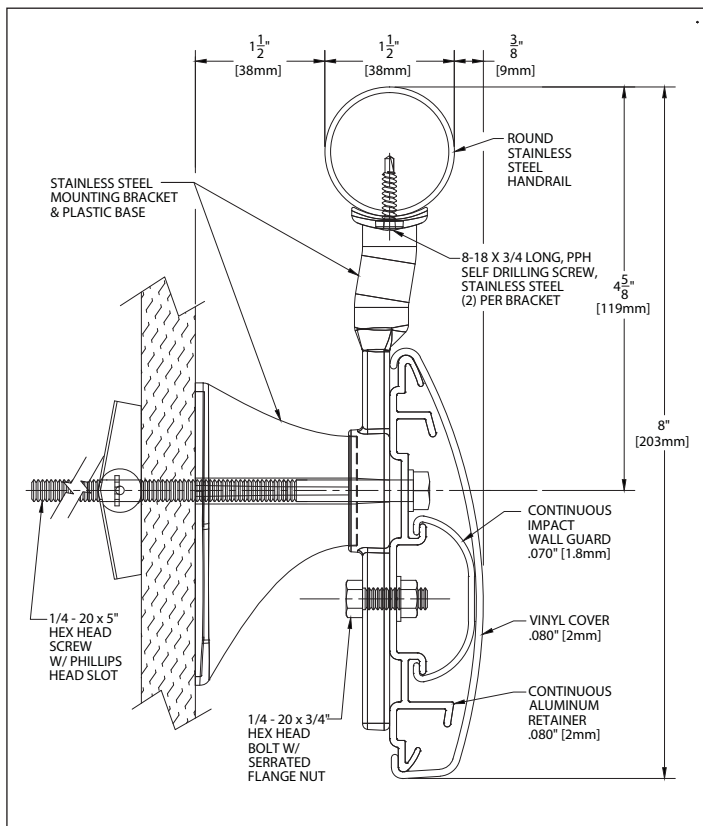


3500SRV/3500SRFV

Silhouette Handrail, Round Stainless Steel Top, Vinyl Wall Guard Bottom



- 8" (203 mm) height x $1\frac{1}{2}"$ (38mm) gripping diameter, system extends $3\frac{3}{8}"$ (85 mm) from the wall.
- System includes $1\frac{1}{2}"$ (38mm) diameter stainless steel top handrail and an integrated wall guard. Wall Guard includes vinyl cover, 5" (127mm) high with inner impact bumper, $1\frac{7}{8}"$ (48mm) high and continuous aluminum retainer.
- Aesthetically pleasing brushed finish
- Type 304 Stainless Steel Handrail
- Durable
- Pre-configured for fast and easy installation
- 1.5" diameter meets ADA requirements
- Non-porous surface does not promote the growth of mold and mildew

IPC.1641/REV.2

Silhouette Handrail, Round Stainless Steel Top, Vinyl Wall Guard Bottom

Suggested Specifications

PART 1 GENERAL

1.01 SUMMARY

- A. Handrail systems for pedestrian safety and wall protection

1.02 SECTIONS INCLUDES

- A. 3500SRV/3500SRFV Silhouette Handrail System, round stainless steel handrail with integrated vinyl 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. 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 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 UL Classified integrated wall guard 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 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 impact bumpers with a CCF 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. 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.
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: 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, 7" (178mm) 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 MANUFACTURED UNITS

- A. Stainless Steel/Vinyl Handrail System
1. 3500SRV Silhouette Handrail, 8" (203 mm) height x 1-1/2" (38mm) gripping diameter, system extends 3-3/8" (85 mm) from the wall. System includes 1-1/2" (38mm) diameter stainless steel top handrail and an integrated wall guard. Wall Guard includes vinyl cover, 5" (127mm) high with inner impact bumper, 1-7/8" (48mm) high and continuous aluminum retainer.
2. 3500SRFV Silhouette Handrail, 8" (203mm) height x 1-1/2" (38mm) gripping diameter, system extends 3-3/8" (85 mm) from the wall. System includes 1-1/2" (38mm) diameter stainless steel top handrail and an integrated wall guard. Wall Guard includes vinyl cover, 5" (127mm) high with inner impact bumper, 1-7/8" (48mm) high and continuous aluminum retainer. Wall guard shall have a full-wrap woodgrain pattern. Returns and corners include reveals.

2.03 MATERIALS

- A. Stainless Steel:
1. Continuous stainless steel rail shall be type 304 alloy with a number 4 satin finish (type 304 meets NSF Standard 51).
2. Stainless steel brackets, returns and corners shall be type 304, stainless steel (type 304 meets NSF Standard 51).
- B. Vinyl
1. Snap-on vinyl covers of .080" (2mm) thickness shall be extruded from chemical and stain resistant unplasticized polyvinyl chloride (uPVC) with the addition of impact modifiers. No plasticizers shall be added (plasticizers may aid in bacterial growth).
2. Inner snap-on vinyl impact bumper of .070" (1.8mm) thickness shall be extruded from chemical and stain resistant unplasticized polyvinyl chloride (uPVC) with the addition of impact modifiers. No plasticizers shall be added (plasticizers may aid in bacterial growth).
3. Molded components shall be made of unplasticized polyvinyl chloride (uPVC)
- C. Aluminum
1. Continuous aluminum retainer of .080" (2mm) thickness shall be fabricated from 6063-T5 aluminum, with a mill finish.

2.04 COMPONENTS

- A. Handrail returns and corners shall be type 304, stainless steel and a finish to match handrails.
B. Wall guard returns and outside corners shall be fabricated of aluminum in a finish/color to match

the wall guard.

- C. Stainless steel brackets shall be type 304, stainless steel with a brushed finish.
D. Molded bracket components shall be fabricated from injection molded polyvinyl chloride.
E. Fasteners: All mounting systems accessories appropriate for substrates indicated on the drawings shall be provided.

2.05 FINISHES

- A. Handrail: Stainless steel rail shall be 304 alloy with a # 4 satin finish.
B. Wood Stain: Color of the handrail wall guard to be selected, by the architect, from the IPC stain selection.
C. Stainless Steel Brackets: 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 pebble texture.

PART 3 EXECUTION

3.01 INSTALLERS

- A. Installer should be familiar with the installation of finished stainless steel 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.