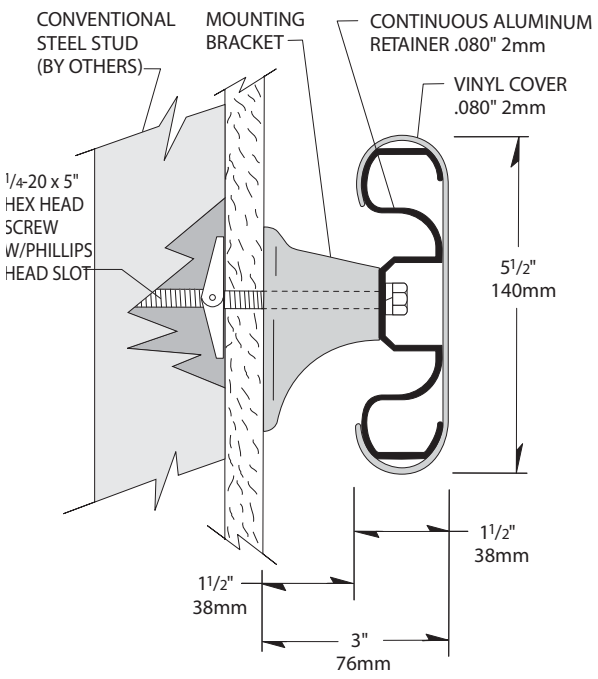
800/855/800W

Handrails

800 | 855 | 800W



- 5-1/2" (140mm) height x 1-1/2" (38mm) gripping diameter, extends 3" (76mm) from the wall
- Mounted on a sturdy .080" (2mm) thick, continuous aluminum retainer
- .080" (2mm) thick, scratch and stain resistant rigid vinyl cover
- Easy installation, clean-up and maintenance
- Approved in California by OSHPD for hospital use
- Meets ADA and ANSI criteria
- Manufactured in 12' (3.6__6m) standard lengths
- All mounting fasteners are included with each order
- 855 Model – 3-3/16" (81mm) high accent strip available in 100 standard colors, several pattern and finish options, as well as custom colors
- 800W Model – Manufactured with Woodland pattern full wrap. 800W includes black reveals for returns and corners
- Meet immediate needs with Inpro's Quick Ship program for the 800 handrail
- Meets the most rigorous standards and criteria of chemical emissions as prescribed by the GREENGUARD Environmental Institute
- Has been tested and meets GREENGUARD Environmental Institute's and the state of California's requirements for low emitting products as tested by Air Quality Sciences
- Has been tested and meets the GREENGUARD Children & School chemical emissions levels

GREENGUARD® Indoor Air Quality Certified

IPC.320/REV.12

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DOOR + WALL PROTECTION SYSTEMS
A DIVISION OF INPRO®

800/855/800W Handrails

Suggested Specifications

PART 1 – GENERAL

1.01 SUMMARY

A. Handrail systems for pedestrian safety and wall protection

1.02 SECTION INCLUDES

A. 800/855/800W Handrail Systems

1.03 REFERENCES

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

1.04 SYSTEM DESCRIPTION

A. Performance Requirements: Provide Handrail 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 handrails 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 handrails 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 handrails 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. System Impact Resistance: Provide a handrail system that resists an impact of 45.5 ft-lbs while producing no visual blemishes upon the vinyl cover surface and no deformations in the aluminum retainers, as tested in accordance with applicable provisions of ASTM F 476-84, paragraph 18, Impact Test.
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. Chemical and Stain Resistance: Provide handrails that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.
7. 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.
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.
8. Code Compliance: Provide handrails that comply with all current ANSI and ADA requirements. In California, IPC Handrails are approved by OSHPD for use in Hospitals. OSHPD approval #R-0232.

1.05 SUBMITTALS

A. Product Data: Manufacturer's printed product data for each product indicated in this section.
B. Detail Drawings: Mounting details with the appropriate fasteners for specific project substrates.
C. Samples: Verification samples of handrail, 8" (203mm) long, in full size profiles of each type and color 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 location away from direct sunlight.

1.07 PROJECT CONDITIONS

A. Environmental Requirements: Install products 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 handrails and wall protection from a single manufacturer.

2.02 MANUFACTURED UNITS

A. Handrail Profile

1. 800 Handrail, $5\frac{1}{2}$" (140mm) height x $1\frac{1}{2}$" (38mm) gripping diameter, extends 3" (76mm) from wall. Options: Curved handrail, specify radius. Minimum radius – 3 feet (.91m)
2. 855 Handrail, $5\frac{1}{2}$" (140mm) height x $1\frac{1}{2}$" (38mm) gripping diameter, extends 3" (76mm) from wall with $3\frac{3}{16}$" (81mm) accent strip.
3. 800W Handrail, $5\frac{1}{2}$" (140mm) height x $1\frac{1}{2}$" (38mm) gripping diameter, extends 3" (76mm) from wall. Handrail has a full-wrap woodgrain pattern. Returns and corners include reveals.

2.03 MATERIALS

A. Vinyl: Snap-on 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). Accent strips when used shall be of polyvinyl chloride (PVC).
B. Aluminum: Continuous aluminum retainer of .080" (2mm) thickness shall be fabricated from 6063-T5 aluminum with a mill finish.

2.04 COMPONENTS

A. Returns, inside corners, outside corners and brackets shall be made of injection molded thermoplastics.
B. Molded reveals shall have a smooth finish and shall be black.
C. Fasteners: All mounting system accessories appropriate for substrates indicated on the drawing shall be provided.

2.05 FINISHES

A. Vinyl Covers: Handrail colors to be selected by the architect from the IPC finish selection.
B. Molded components: Returns, inside corners and outside corners shall be of a color/finish matching the handrails. Surface shall have a pebblette texture.
C. Molded Bracket: Shall be a solid color to match or compliment the handrails. Surface shall have a peblette texture.

PART 3 – EXECUTION

3.01 EXAMINATION

A. Examine areas and conditions in which the handrail system 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 handrail as indicated on approved detail drawings for the appropriate substrate and in compliance with the IPC installation instructions. Install handrail level and plumb at the height indicated on the drawings.
B. Installation of 800/855/800W Handrails:

1. Cut the aluminum retainer to the desired length, allowing $3\frac{1}{4}$" (83mm) for each return, $\frac{1}{4}$" (6mm) for each outside corner and $4\frac{11}{16}$" (119mm) for each inside corner. Allow $\frac{1}{4}$" (6mm) for each 135 degree outside corner and $2\frac{1}{16}$" (52mm) from the corner of the wall for each 135 degree inside corner.
2. Attach returns, inside corners, outside corners and brackets to the aluminum retainer. It is recommended that brackets are installed 4" (102mm) from the ends of a run. Spacing of brackets is recommended to be a maximum of 32" (813mm).
3. Mount the aluminum retainer to the wall using the provided fasteners. Level and secure the aluminum retainer to the wall.
4. Cut the vinyl cover to fit between the returns and/or corners. NOTE: Trim all factory edges square before installation. Position the vinyl cover on the aluminum retainer starting at the top of the retainer and pivoting the vinyl cover over the bottom of 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.

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