

**PHANTOM 3-PART SPECIFICATION
FOR
LEGACY PHANTOM DOOR SCREENS
SECTION 10704
RETRACTABLE DOOR SCREENS**

GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE, AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING.

EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. (NUMBERS AND TITLES REFERENCED ARE BASED ON MASTERFORMAT, 1995 EDITION).

THIS SECTION ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING SECTIONS 01330-SUBMITTAL PROCEDURES, 01620-PRODUCT OPTIONS, 01630-PRODUCT SUBSTITUTION PROCEDURES, 01660-PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01740-CLEANING, 01770-CLOSEOUT PROCEDURES, AND 01780-CLOSEOUT SUBMITTALS. CLOSE COORDINATION WITH DIVISION 1 SECTIONS IS REQUIRED. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

THIS IS AN OPEN PROPRIETARY SPECIFICATION ALLOWING USERS THE OPTION OF APPROVING OTHER MANUFACTURERS THAT COMPLY WITH THE CRITERIA SPECIFIED HEREIN.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

OPTIONAL ITEMS REQUIRING SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G. [35] [40] [45]. MAKE APPROPRIATE SELECTIONS AND DELETE OTHERS.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED BLANK SPACES, E.G.
_____ .

OPTIONAL PARAGRAPHS AND FEATURES THAT MAY BE SELECTED OR DELETED AS DESIRED ARE SHOWN IN BOLD FACE TYPE. DELETE BOLD FACE TYPE WHEN INCLUDING THESE PARAGRAPHS OR FEATURES.

REVISE FOOTER TO SUIT PROJECT/OFFICE REQUIREMENTS.

ELECTRONIC VERSIONS OF THIS SPECIFICATION UTILIZE AUTOMATIC PARAGRAPH NUMBERING.

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Manually operated, side-coiling, retractable door screens.

B. Related Sections:

INCLUDE SECTIONS BELOW FOR SPECIFYING DOORS THAT WILL BE FITTED WITH SCREENS SPECIFIED HEREIN.

RELATED CONSTRUCTION SECTION(S) SHOULD SPECIFY THAT SCREEN OPENINGS MUST BE PLUMB, LEVEL, AND SQUARE TO WITHIN 1/8 INCH IN 10 FEET.

1. _____ – _____
2. _____ – _____

INCLUDE APPROPRIATE LANGUAGE BELOW IF PRODUCTS SPECIFIED IN THIS SECTION ARE TO BE BID AS ALTERNATES. OTHERWISE DELETE THE FOLLOWING PARAGRAPH.

C. Alternates:

1. Reference Section 01230-Alternates.

1.02 SUBMITTALS

A. Reference Section 01330-Submittal Procedures; submit following items:

1. Product Data including paint color samples.
2. Shop Drawings:
 - a. Head, jamb, and sill details.
3. Quality Assurance/Control Submittals:
 - a. Qualifications: Proof of manufacturer and installer qualifications.
 - b. Manufacturer's Installation Instructions.

B. Closeout Submittals: Reference Section 01780-Closeout Submittals; submit following items:

1. Operating and Maintenance Instructions.
2. Special warranties and registration form.

1.03 QUALITY ASSURANCE



- A. **Qualifications:**
 - 1. **Manufacturer Qualifications:** Minimum five years experience in producing retractable screens.
 - 2. **Installer Qualifications:** Must be a manufacturer authorized installer.

- B. **Field Sample:**
 - 1. Reference 01450–Quality Control.
 - 2. Install one complete, operable unit including accessories.
 - 3. Test operation and make adjustments required for proper operation.
 - 4. Obtain Architect’s approval prior to beginning installation of other units.

- C. **Pre-Installation Meeting:**
 - 1. Convene meeting at project site within [one week] [_____ weeks] of scheduled start of installation with representatives of the following in attendance: Owner, Architect, General Contractor, and Phantom Screens Representative.
 - 2. Review substrate conditions, requirements of related work, installation instructions, storage and handling procedures, and protection measures.
 - 3. Keep minutes of meeting including responsibilities of various parties and deviations from specifications and installation instructions.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Reference Section 01660-Product Storage and Handling Requirements.

- B. Follow manufacturer’s instructions.

- C. **Special Instructions:** Store packaged units in a horizontal position, evenly supported, and without top loading.

1.05 WARRANTY

- A. **Special Warranties:**
 - 1. **Limited Lifetime Material Warranty on Aluminum Components:**
 - a. Warrant materials to withstand normal weather elements and against breakage under normal use conditions.
 - b. Warranty shall not cover claims originating from faulty installation, hail, flood, fire, harmful chemicals and fumes,



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misuse, abuse, fading, chalking, oxidization, erosion of paint, acts of God, or causes beyond control of the manufacturer.

- 2. Registration: Installation registration form shall be signed by Owner or Owner's Representative and returned to manufacturer.
- 3. Limitations:
 - a. Manufacturer shall not be responsible for indirect, punitive, special, incidental, or consequential damages or losses suffered or incurred in connection with the product or its use.
 - b. Warranties implied by, including those of merchantability and fitness for use or for particular purpose shall be limited to materials only in duration of 1 year.
 - c. Warranty shall not cover incidental damage to screen mesh.
 - d. Warranty shall not cover cost, removal cost, and shipping cost of materials covered in above special warranties.
 - e. Warranties shall apply to original owner only.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A

Phantom Mfg. (Int'l) Ltd	Tel:	(888) 444-4142
P.O. Box 2310	Fax:	(604) 855-7834
Abbotsford, B.C. V2T 4X2	E-mail:	phantom@phantomscreens.com
Canada	Website:	http://www.phantomscreens.com/

INSERT NAME, ADDRESS AND PHONE NUMBER OR LOCAL PHANTOM'S REPRESENTATIVE BELOW.

- 1. Phantom Representative
- B. Model:
 - 1. Door Screen: Phantom Legacy Door Screen.
- C. Substitutions: Reference Section 01630-Product Substitution Procedures.

2.02 MATERIALS

- A. Aluminum Components:
 - 1. Extruded Shapes: ASTM B 221, alloy 6063-T5 or 6060-T5 or 6060-T51
 - 2. Extruded Tubes: ASTM B 429, alloy 6005A-T61

B. Sealant: As specified in 07920 – Joint Sealants.

2.03 COMPONENTS

- A. Slide Bar, Housing and Track System, and Sill Adaptors: Extruded aluminum.
 - 1. Provide label with serial number and date of manufacture on each screen unit.
- B. Screen Retracting Mechanism: Constant tension Class B spring in lubricated and sealed unit.
- C. Roller Assembly: Extruded aluminum.
- D. Door Latch Mechanism: Nylon Gear Assembly, Aluminum Rods, Nickel Plated Zinc Handle Levers.
 - 1. Holding strength shall be adjustable.
- E. Housing End Caps, Slide Bar End Caps, Track Catches and Door Handle: UV protected, 15 percent fiberglass-filled nylon or Lubricated Nylon. [Integral colored to match standard housing color] [Alkyd industrial enamel painted or Polyester base powder coated to match custom colored housings].

SELECT SCREEN MESH CATEGORY/CODE AND COLOR FROM MANUFACTURER'S CURRENT MESH SELECTION CHART.
AN EXAMPLE OF CATEGORY/CODE WOULD BE: INS1814.
NOTE THAT ONLY SCREEN MATERIALS INDICATED UNDER THE "P" COLUMNS OF THE PRODUCT LINE ARE AVAILABLE FOR DOOR SCREENS

- F. Screen Mesh:
 - 1. Size and Type: _____.
 - 2. Color: _____.
- G. Other miscellaneous items typically provided by manufacturer as required to complete installation.

2.04 ACCESSORIES

- A. **Adjustable retraction speed control unit.**
- B. **Swing restrictor to prevent adjacent [doors] [and] [windows] from hitting screens.**



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FOLLOWING PIN LOCK IS COMMONLY USED WITH FRENCH DOOR INSTALLATIONS TO FIX ONE SCREEN IN THE OPEN POSITION AND IS NOT REQUIRED WITH THE USE OF THE LATCHING HANDLE.

- C. Pin Lock.**
- D. Alarm/Chime: Mount on [doors] [and] [windows] to announce opening and closing of the screen.**

VERIFY THAT SILL ADAPTORS, IF REQUIRED, ARE SHOWN ON DOOR THRESHOLD DETAILS.

- E. Sill Adaptor(s): Configuration as shown on Drawings. [Mill finished] [Black anodized] [Brass anodized] [Bronze anodized] [Finish as selected by Architect].**

2.05 FINISH

- A. Semigloss Weather Resistant Powder Coat: Akzo Nobel Polyester Base (AAMA 2603) [Signature color offering].

SELECT COLOR FROM MANUFACTURER'S CURRENT LIST OF AVAILABLE COLORS AT THE FOLLOWING URLs, OR SELECT ONE OF THE OTHER OPTIONS.
<http://www.phantomcreens.com/content/customcolors.php> for door screen colors

- B. Door Screen Housing Color: [_____] [As selected by Architect] [Custom coated as selected by Architect].**

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates upon which screen components will be installed.
 - 1. Verify that screen opening complies with manufacturer's requirements for being square, plumb, and level.
- B. Coordinate with responsible entity to correct unsatisfactory conditions.
- C. Commencement of work by installer is acceptance of substrate conditions.

3.02 INSTALLATION

MANUFACTURER'S INSTALLATION INSTRUCTIONS ARE ADEQUATE FOR NORMAL INSTALLATION CONDITIONS. UNUSUAL CONDITIONS MAY REQUIRE ADDITIONAL INFORMATION IN THIS ARTICLE.



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- A. Install products in accordance with manufacturer's installation instructions.**
- B. Install sealant in joints between screen members and adjacent construction.**

3.03 FIELD QUALITY CONTROL

- A. Inspection:
 - 1. Verify that door screens pull to closed position and latch in place without restriction and retract smoothly into housing.

3.04 CLEANING

- A. Reference Section 01740-Cleaning.
- B. Clean soiled components to "like new" condition.

3.05 DEMONSTRATION

- A. Demonstrate operation to Owner's Representative.
- B. Review maintenance requirements with Owner's Representative.
- C. Remind Owner's Representative to complete and submit warranty registration form.

3.06 PROTECTION

- A. Provide protection to prevent damage to screen components until
[Substantial Completion] [Final Acceptance by the Owner].

USE THE FOLLOWING ARTICLE OR THE DRAWINGS, AS DESIRED, TO SCHEDULE SCREENS FOR PROJECTS WITH MULTIPLE SCREENS AND/OR SCREENS OF DIFFERING SIZES.
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3.07 SCHEDULES

END OF SECTION¹

¹ Comments or suggestions for improvement should be addressed to Phantom Mfg. (Int'l) Ltd. at the address in Article 2.01.

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