



PHANTOM®
SCREENS

Serene Screen by Phantom 3 Part Spec

**PHANTOM 3-PART SPECIFICATION
FOR
SERENE SCREENS
SECTION 10704
RETRACTABLE WINDOW 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, roll-up, retractable window screens.

B. Related Sections:

INCLUDE SECTIONS BELOW FOR SPECIFYING WINDOWS 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, 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 OF LOCAL PHANTOM REPRESENTATIVE BELOW.

1. Phantom Representative
- B. Model:
1. Serene Window Screens:
- C. Substitutions: Reference Section 01630-Product Substitution Procedures.

2.02 MATERIALS

- A. Aluminum Components:
1. Extruded Shapes: ASTM B 221, alloy 6063-T6, 6060-T61, 6063-T5, 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: 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. Track End Cap [Latching Mechanism], Slide Bar End Caps: UV protected, nylon for standard colors [Integral colored to match standard housing color]. UV protected, Triax for custom painted colors [Alkyd industrial enamel painted or Polyester base powder coated to match custom colored housings].
- E. Housing End Caps, Slide Bar End Caps, and Accessory Handle: UV protected, 15 percent fiberglass-filled nylon. [Integral colored to match standard housing color] UV protected, Triax for custom painted colors [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 "S" COLUMNS OF THE PRODUCT LINE ARE AVAILABLE FOR WINDOW 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. Alarm / Chime: Mount on windows to announce opening and closing of the screen.**

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.phantomscreens.com/content/customcolors.php> for window screen colors

- B. Window 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.

- 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 window screen slide bar moves freely up and down without restriction and that slide bar is parallel to housing when retracted.

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.