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*Executive Screens by Phantom® 3 Part Spec*

**PHANTOM 3-PART SPECIFICATION  
FOR  
EXECUTIVE SERIES RETRACTABLE SCREENS  
SECTION 08 11 63  
RETRACTABLE OVERSIZED INSECT / SHADE 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: Electrically or Manually operated, roll-up, retractable screens in [recessed] [surface mounted] housing with [recessed] [surface mounted] side tracks.
- B. Related Sections:

INCLUDE SECTIONS BELOW FOR SPECIFYING CONSTRUCTION ADJACENT TO AND SURROUNDING SCREENS AND FOR MAKING ELECTRICAL CONNECTIONS. ADD ADDITIONAL SECTIONS AS NECESSARY. DRAWING DETAILS FOR RECESSED HOUSING UNITS SHOULD INCLUDE ACCURATELY DIMENSIONED CAVITIES AND AN ADEQUATE SUBSTRATE FOR MOUNTING THE HOUSING. THE CAVITY SHOULD ALSO BE FREE OF OTHER PENETRATIONS—SCREWS, CONDUITS, ETC.

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

- 1. \_\_\_\_\_ – \_\_\_\_\_
- 2. \_\_\_\_\_ – \_\_\_\_\_ **for installing electrical control components and making final electrical connections.**

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. Plan showing screen location and location of controls and specified accessories.
    - b. Elevations showing screen seams, if any, and power receptacle locations, if any.



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- c. Head, jamb, and sill details.
  - d. Schematic control drawing
3. Samples:
    - a. Minimum 12 inch by 12 inch (300 mm by 300 mm) piece of screen material.
    - b. Schematic control drawing.
  4. 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.
  3. Obtain Architect's approval prior to beginning installation of other units

### 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.
  3. Product Qualifications: CSA and UL Approval; CSA standard C22.2 No.247, UL standard 325.

MANUFACTURER RECOMMENDS THE FOLLOWING PARAGRAPH BE INCLUDED FOR MULTIPLE SCREEN OR COMPLEX PROJECTS.
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- B. **Mock-Ups:**
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 SCHEDULING

- A. Coordinate with Phantom Representative regarding installation schedule for recessed components.

1.06 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.



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2. 5 Year Warranty on Electric Motors and Manually Operated Gears:
  - a. Warrant against failure under normal use conditions.
  - b. Warranty shall be void if electric motors are exposed to water, acts of God, or abnormal conditions.
3. 1 Year Warranty on Electronic Components:
  - a. Warrant against failure under normal use conditions.
  - b. Warranty shall be void if electronic components are exposed to water, acts of God, or abnormal conditions.
4. Registration: Installation registration form shall be signed by Owner or Owner's Representative and returned to manufacturer.
5. 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:	<a href="http://www.phantomscreens.com/">http://www.phantomscreens.com/</a>

1. Phantom Representative

B. Model:

1. Executive I [4" housing, 101.60 mm]
2. Executive II [5 1/2" housing, 139.70 mm]
3. Executive III [7 1/8" housing, 180.98mm]



EXECUTIVE I IS ACCEPTABLE FOR USE UP TO 10' WIDE AND/OR 9' TALL, EXECUTIVE II IS ACCEPTABLE FOR USE UP TO 20' WIDE AND/OR 11' TALL. UNITS EXCEEDING THESE LIMITATIONS WILL BE AN EXECUTIVE III.

- 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, 6063-T6.
2. Extruded Tubes: ASTM B 429, alloy 6005A-T61
3. Die Cast Standard Housing End Caps: ASTM B85-92a, alloy ADC-12 or 383 ANSI / AA 383.

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

## 2.03 COMPONENTS

- A. Housing Back, Top, and Cover: [Recessed] [Surface mounted], extruded aluminum, three piece.

INCLUDE FOLLOWING SUBPARAGRAPH IF IT IS DESIRABLE TO HAVE ALL COVERS FABRICATED TO THE SAME SIZE FOR AESTHETIC REASONS.

1. **Fabricate surface mounted housings and covers to be the same size.**
- B. **Motor: Simu®, Inc., T5 tubular type, 120v AC, 60 Hz, with 6 ft (2 m) grounded plug-in power cord; model as recommended by screen manufacturer based on screen size.**
- C. **Manual Gear: Simu®, Inc., 11:1 Manual Gear [single stop] with oval eye and shaft for operation via Manual Cranking Wand. Model as recommended by screen manufacturer.**
- D. Roller Assembly: Extruded aluminum, outside diameter as specified by manufacturer based on screen size.
- E. **Mounting Angle: Extruded aluminum.**



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- F. Sidetrack and Cover: [Recessed] [Surface mounted], extruded aluminum.

SELECT SCREEN MESH CHARACTERISTICS FROM MANUFACTURER'S CURRENT LIST OF AVAILABLE PRODUCTS AT:

<http://www.phantomscreens.com/products/execspects.html>

<http://www.phantomscreens.com/content/execspects.php>

A 1 INCH HORIZONTAL SEAM MAY BE REQUIRED DEPENDING ON THE MESH TYPE AND SCREEN SIZE. SEAMS ARE USUALLY PLACED NEAR THE TOP. IF A PARTICULAR LOCATION IS PREFERRED, IT SHOULD BE SHOWN ON THE DRAWINGS.

AN EXAMPLE OF "SIZE AND TYPE" BELOW WOULD BE: 18 X 14 FIBERGLASS INSECT SCREEN.

- G. Screen Mesh:

1. Size and Type: \_\_\_\_\_.
2. Color: \_\_\_\_\_.

- H. Slide Bar: Extruded aluminum.

SELECT THE 4 INCH SEAL BELOW FOR NORMAL EXTERIOR APPLICATIONS. THE 1.75 AND 6 INCH SEALS ARE FOR APPLICATIONS WHERE LESS OR MORE COMPRESSION MAY BE DESIRED. CONSULT MANUFACTURER'S LITERATURE TO DETERMINE APPROPRIATE SEAL BASED ON PROJECT CONDITIONS.

STANDARD SEAL COLOR IS GREY:

<http://www.phantomscreens.com/content/execspects.php>

- I. Bottom Seal: [1.75 inch (44 mm)] [4 inch (102 mm)] [6 inch (152 mm)] grey vinyl.
- J. Zipper: No. 5 nylon, color coordinated to screen mesh.
- K. Control System:

THE FOLLOWING TYPES OF CONTROLS ARE AVAILABLE TO ACTIVATE SCREEN OPERATION AND CAN BE USED INDIVIDUALLY OR IN ANY COMBINATION. ALSO, FIVE CHANNEL UNITS CAN BE PROGRAMMED FOR A WIDE VARIETY OF SCREEN CONTROL COMBINATIONS. CONSULTATION WITH THE LOCAL DISTRIBUTOR OR PHANTOM MFG. (INT'L) LTD. IS RECOMMENDED TO DEVELOP THE DESIRED SYSTEM. DESCRIPTION OF THE SYSTEM CAN THEN BE SPECIFIED BELOW (FOR SIMPLE SYSTEMS), SHOWN IN A SCHEDULE AT THE END OF THIS SECTION, OR IN A SCHEDULE ON THE DRAWINGS, OR SHOWN ON A SCHEMATIC DRAWING.



1. **Programmable handheld single channel remote. Provide [ \_\_\_ units] [number of units [as scheduled] [as shown on schematic drawing].**
2. **Programmable handheld five channel remote. Provide [ \_\_\_ units] [number of units [as scheduled] [as shown on schematic drawing].**
3. **Programmable battery operated, recessed wall mount single channel, [white] [ivory] color. Provide [ \_\_\_ units] [number of units [as scheduled] [as shown on schematic drawing].**
4. **Programmable battery operated, recessed wall mount five channel, [white] [ivory] color. Provide [ \_\_\_ units] [number of units [as scheduled] [as shown on schematic drawing].**
5. **Manual Cranking Wand. Provide [ \_\_\_ units] [ \_\_\_ length(s)]**
6. **ADD ALL CONVENTIONAL SWITCHES**

IF CONTROL THROUGH A BUILDING AUTOMATION SYSTEM IS DESIRED, VERIFY THAT THE SPECIFICATION SECTION SPECIFYING THE BUILDING AUTOMATION SYSTEM INCLUDES AN INTERFACE FOR MOTORIZED RETRACTABLE SCREENS AND DESCRIBE THE CONTROL COMBINATIONS DESIRED BELOW.

6. **Building Automation System Interface: ADD RELAYS**
7. Other miscellaneous items typically provided by manufacturer as required to complete installation.

THE FOLLOWING ACCESSORIES ARE AVAILABLE FOR SECONDARY ENVIRONMENTAL CONTROL WITH A MOTORIZED UNIT. SELECT AS DESIRED.

- A. **Wind sensor.**
- B. **Sun sensor.**
- C. **Timer operation.**

## 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 Executive Series Retractable Screen colors

- B. 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 cavities for recessed housings are properly sized, include a mounting substrate, are free of unrelated penetrations.
  2. Verify that screen opening compiles with manufacturer's requirements for being square, plumb, and level.
  3. Verify that electrical work is correctly located.
- 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 as shown on drawings.**

#### 3.03 FIELD QUALITY CONTROL

- A. Inspection:
1. Verify that Slide Bar moves freely up and down without restriction.
  2. Verify that Slide Bar is parallel to housing when retracted.



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3. Verify that Bottom Seal creates a seal all along floor.

B. Site Tests:

1. Verify that electrical or manual operation works properly, and that motor or gear limits are set correctly.

#### 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].

B. Coordinate with Owner’s Representative to determine if protection should remain in place following [Substantial Completion] [Final Acceptance by the Owner] and who will be responsible for final removal.

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

#### 3.07 SCHEDULES

END OF SECTION<sup>1</sup>

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

Issue Date: June 2008