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*Planning Considerations*  
FOR MOTORIZED  
RETRACTABLE SCREENS





## Retractable Screens for Outdoor Spaces

With outdoor living in mind, Phantom's motorized retractable screens are designed for blending indoor and outdoor environments, creating the ultimate transitional living spaces.

They are perfect for oversized openings such as covered patios, telescoping walls, multi-panel doors, curtain walls, lift & slide doors and large picture windows. They can be mounted on both the interior and exterior of a building, and can be either retro-fitted or built into large applications as part of a new construction project.

Motorized screens not only look great, but they provide traditional benefits such as insect protection, climate control, great airflow, solar shading and enhanced privacy – all at the touch of a button or with smart home technology!

What's best – Phantom Screens offers complete support to builders and architects including technical specifications, BIM files, CAD drawings and Continuing Education seminars. Phantom's dedicated full-time professionals are happy to assist in integrating our retractable screens into your design / build projects.

### FEATURES & BENEFITS OF MOTORIZED RETRACTABLE SCREENS

- Provide the functionality of conventional screens, but disappear when not needed
- Increase access to natural ventilation and daylight
- Decrease heat and glare from direct sunlight and solar reflective structures
- Reduce building heat gain\*
- Provide temperature control without blocking views
- Reduce energy usage and cost
- Extend the life of interior furnishings by reducing UV fading
- Allow for complete building integration that can be recessed into columns and ceiling cavities
- Compatible with home automation systems
- Offer a range of mesh choices for insect control, solar shading, climate control and privacy
- Offer numerous finishing options, including custom color matching

\*Research shows an exterior mounted shade is up to 7x more effective at reducing building heat gain than interior mounted products. Exterior shade may reduce solar heat gain by 65-77%.

## CASE STUDY

### *The New American Home 2017*

- LOCATION:** Orlando, FL
- STYLE:** Contemporary / International
- DESIGNER:** Phil Kean Design Group
- CHALLENGE:** Open concept living with insect protection
- SOLUTION:** Phantom's motorized screens including two 40-ft wide screens

**CHALLENGE:** The open concept home is equipped with two bi-folding glass doors allowing for a seamless transition between the great room, pool and courtyard. A solution was needed to keep this space open to the outdoors, allowing cool air to flow through the home while keeping the bugs out and truly creating an indoor/outdoor space.

**SOLUTION:** Phantom Screens was able to provide the perfect solution with their motorized screens. Two single units extend across both 40-ft openings – uniting the indoor and outdoor spaces – preserving the home's design and view while disappearing at the touch of a button.



# CUSTOMIZED TO MEET YOUR CLIENTS' NEEDS

Motorized screens come in a variety of standard powder-coated colors to match your finishes, each of which meet AAMA (American Architectural Manufacturers Association) 2603 standards. We can also create custom coatings, including wood grains.

All of Phantom's color programs provide a high-grade quality finish designed to resist scratching, chipping, cracking and fading from UV rays.

## STANDARD COLORS



## WOOD GRAIN FINISHES



## CUSTOM COATINGS

Phantom Screens also offers a custom color matching program to blend our screens with any color scheme.

## FABRIC & MESH OPTIONS

All mesh and fabric options seal out insects, reduce heat and glare, as well as prevent fading of furnishing.



**INSECT**  
Reduces up to 55% of UV rays



**SOLAR**  
Reduces up to 95% of UV rays



**PRIVACY**  
Reduces up to 100% of UV rays



**CLIMATE**  
Reduces up to 100% of UV rays

## VINYL OPTIONS

Clear vinyl enables you to control the temperature in your outdoor living space and is available in four perimeter colors.



# A PERFECT FIT FOR A VARIETY OF SPACES

## APPLICATIONS

Phantom's motorized screens are custom made and professionally installed to fit a wide variety of outdoor spaces including patios, porches, balconies, large picture windows and multi-panel doors systems.

### PATIOS



### PORCHES



### BALCONIES



## SPECIFICATIONS

Phantom's motorized screens are custom fit and professionally installed for single openings as large as 40 feet wide – making them ideal for both commercial and residential renovation and construction projects.

STYLE	WIDTH	HEIGHT
2 ½" ROLLER	26" to 120"	Max 96"
4" ROLLER	34" to 240"	Max 132"
4" ROLLER (with carrier)	300" to 480"	Max 132"
5" ROLLER	34" to 300"	Max 192"

**NOTE:**

Restrictions may affect size and mesh type offered. Clear vinyl is not available for 2 ½" roller. For clear vinyl sizing, contact your Phantom Screens rep.

## BUILDING INTEGRATION

Customized to each building project, Phantom's motorized screens merge perfectly with any décor to maintain the integrity of your design. These retractable screens can be recessed from view or mounted on existing structures. Motorized screens can be integrated into every type of building material including wood, brick, stucco, natural stone and concrete.



**STUCCO COLUMN**



**DECORATIVE COLUMN**



**STONE-FACED COLUMN**



**WOOD-CLAD COLUMN**



**RECESSED CAVITY**



**SURFACE MOUNT**

# PLANNING CONSIDERATIONS

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Standard mount motorized screens with housings and standard tracks. Inside above header mount.



Standard mount motorized screens with housings and standard tracks. Under header mount.



Standard mount motorized screens with housings and standard tracks. Outside above header mount.

## MOUNTING OPTIONS

Motorized retractable screens can be either surface-mounted (with housing and cover) or recessed into an opening (all components hidden from view).

Standard units are normally retro-fitted onto an existing structure. The retro-fitted housing unit will, therefore, be visible. Recessed units are usually installed during the construction process and are placed inside of a cavity that is built by the contractor.

There are two types of mounting options available: standard and recessed.

## STANDARD MOUNT

Standard mount is the easiest application to integrate and can be color matched to the building. It can be surface-mounted above the opening on the inside of the surround, inside of the frame under the header, or on the outside of the structure above the opening.

There are three different sizes of housings depending upon the width and height of the opening: 4", 5 1/2", and 7 1/8". If you have multiple units, you may want to keep all housing units the same size. This will help you achieve a more uniform appearance and consistent roll-up / roll-down speeds.



Standard mount motorized screens with housings and standard tracks. Inside jamb mount.



Recessed mount motorized screens built into cavities with recessed U-channel in decorative columns.

## RECESSED MOUNT

Recessed units are most commonly installed during a new construction project or a major remodel. The main appeal of recessing motorized screens is to hide the mechanics and side tracks without affecting the architectural aesthetics of the building. In most custom homes, it is the preferred installation choice of both the client and architect.



Motorized screens recessed within multiple arched openings, with removable front access panels.



Customized for your home, motorized screens are integrated for long term use and easy maintenance.



Arched openings with 80% sun block to control UV rays and temperature create a more livable outdoor space.



Recessed mount with detail of contents of cavity.

# PLANNING CONSIDERATIONS

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Cavity framed in top of opening with bottom access, u-channel mounted on column before finish is applied.



Unfinished cavity and column showing mounting brackets, electrical connections, and u-channel placement.



Cavity framed in top of header opening with front access. U-channel mounted in columns surrounded by framing before stucco finish is applied

## ADDITIONAL PRODUCT COSTS

As in any typical construction project, the integration of motorized screens not only involves the builder or the builder's superintendent. It also involves the subcontractor tradesmen (electricians, framers and finish carpenters) and Phantom's Authorized Representative who is responsible for the territory where the project is to be completed.

The Phantom representative will provide a proposal which will include the costs associated with Phantom's products, installation, project management services, site inspection visits and training. However, you should be aware of other expenses that will be incurred by other trade suppliers during the preparation phase. These added costs are outlined in the following sections and should be referenced and addressed during the submittal of the proposal to the client.

## FRAMING

In the case of a recessed installation, framing costs will be incurred to design and build a cavity for housing the roller, motor and screen mesh. Some framing will also be required to embed the U-channel into the column design. Phantom Screens recommends you review the framing requirements listed in our Planning Considerations & Project Management Overview document with your framing contractor.





Duplex electrical outlet installed inside the cavity outside the working area of the screen roller, mesh and motor.

## ELECTRICAL

Recessed or standard mount screen installations will incur electrical costs in addition to that of the standard wiring of the structure. The outlets required for retractable screens need to supply 110v to power the motor, requiring about 1.6 amps per unit. Required power outlets must be installed in or near the roller where the motor is located.

## FINISHING

If a recessed installation is required, finishing costs will be incurred to design and build removable covers for the cavities built earlier during the framing stage. The covers must be designed to allow easy access for any maintenance of the motor and/or mesh. These covers are typically built by the builders' finishing carpenters out of material used to finish the interior ceiling of the room where the screens are installed. Finished hardwood or plywood can also be adorned with matching trim to close the cavity containing the screens.



U-channel installed within a mixed column of wood and stone.



Removable front access panels finished to complement wooden tongue and groove ceiling.

# ARCHITECT & BUILDER SERVICES

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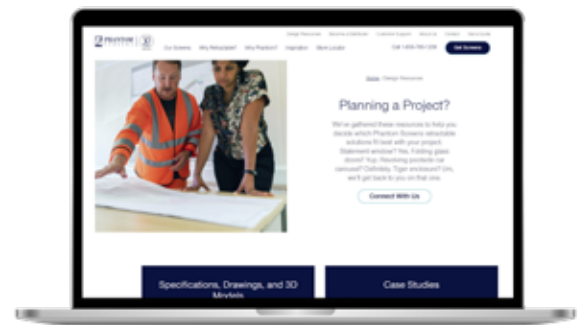
The Phantom Screens Architect and Builder Services program provides building and design professionals with resources on product specifications and integration.

Architects and builders can, therefore, easily specify Phantom's retractable screens during the planning and drafting stages of the project.

The Architectural and Builder Services program consists of the following:

- Access to online resources such as drafting and project planning tools (product specification details, CAD drawings, product installation services, etc.)
- A library of Phantom project case studies
- Educational seminars
- Marketing and sales materials that can be used independently or integrated with customer presentations.

Please contact Phantom's Architect and Builder Services by calling **1-888-444-4142**. To access technical drawings and specifications, visit [phantomscreens.com/design-resources](http://phantomscreens.com/design-resources).





*There when you need us,  
enhancing your lifestyle,  
making us your choice for  
retractable screen solutions...  
experience Phantom.*

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