

# SUN PROTECTION - HABITAT SCREENS™

## Product and Installation Specifications

### **PART 1 - GENERAL**

**1.1 Related Work**

.1 Related work to be determined by project architect or owner's representative.

**1.2 Scope of Work**

- .1 The work of this section covers the supply and installation of Habitat Screens called for on the drawings and herein specified.
- .2 The Talius Authorized Dealer, or General Contractor, to provide all wood blocking and/or solid mounting surfaces required for a proper installation.
- .3 If required, the Talius Authorized Dealer, or General contractor, to provide and install all flashing for Habitat Screen panel boxes.
- .4 If required, the Talius Authorized Dealer, or General contractor, to provide and install exterior and/or interior finishing trim for the Habitat Screens™.

**1.3 Quality Assurance**

**.1 Approved Manufacturer:**

**TALIUS**

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**1.4 Submittals**

- .1 Shop drawings: submit shop drawings showing details of Habitat Screens including Thermoscreen material, guide rails, panel box housing, operators and other relevant hardware.
- .2 Submit manufacturer's data sheets. Indicate specific Habitat Screen types, construction components material finishes and operators.
- .3 Habitat Screens™ are detailed on architectural drawings as scheduled. Sizes shown are nominal and confirmation by field measurement is required..
- .4 Submit samples of standard colours.

**1.5 Products Delivery, Handling and Storage**

.1 Deliver materials to site in shipping crates and packing. Store off the ground on wood supports spaced to prevent damage. Store inside building under cover to prevent damage from weather or construction activities. Coordinate delivery with construction schedule to prevent loss or damage.

**1.6 Operation and Maintenance**

.1 Habitat Screens™ are to be of maintenance free design.

**1.7 Guarantee**

.1 Manufacturer to provide a written warranty that all components are guaranteed against defects in material, design and workmanship for one year from date of installation for commercial and institutional installations and five years from the date of installation for residential installations. Installer to provide written guarantee that there will be no labour charge for warranty repairs for one year from date of installation.

### **PART 2 - PRODUCTS**

**2.1 Habitat Screens**

**.1 The Habitat Screen curtain:**

The Habitat Screen curtain is to be made from exterior, vinyl-coated polyester roller shade fabric, with a 28% polyester, 72% vinyl on polyester composition. The openness factor (O-F) is approximately 5%. The weight of the curtain is to be 522 g/m<sup>2</sup>, 0.000742 lbs/inch<sup>2</sup>, or 15.4 oz/yd<sup>2</sup>. The thickness of the Habitat Screen curtain is to be 0.74 mm, 0.029 inch. The breaking strength of the Habitat Screen curtain is warp: 350 lbs/inch and fill: 235 lbs/inch. Each side of the Habitat Screen curtain must feature a #4.5 Coil

**PART 2 - PRODUCTS***(continued)*

zipper attached via heat weldable film and welding process. Standard fabric roll widths of 126", to minimize visible seams. Horizontal seaming of screen material is required when the height and width of the Habitat Screen exceeds the size of the fabric roll width.

Fire classification for Habitat Screen Fabric is:

- California Technical Bulletin 117 Sec. E. (CS-191-53)
- NFPA 101 (Class A Rating)
- IBC Section 903.1 (Class A Rating)

Manufacturer's description: **SUNTEX® 95.**

**.2 Guide Rails:**

The guide rails are to be heavy gauge aluminum extrusions fitted with a PVC guide rail insert. All guide rails must have undergone a multiple stage chromate procedure and be painted with a baked-on paint. Guide rails to be acid, alkali and oil resistant. The guide rail is to include ¼", 6.5 mm build-up to incorporate slide-on Talius aluminum build-up. Curtain penetration into the guide rail shall be at least 26 mm (1"). Manufacturer's description: **HABITAT SCREEN PRO GUIDE RAIL WITH EDGE RETENTION INSERT.**

**.3 Bottom Profile:**

The Habitat Screen™ Bottom Profile is to be made of two aluminum extrusions fitted together with a retaining channel for the screen fabric at the bottom. The extrusions are to be minimum 0.055" or 1.40 mm wall thickness and weighing 1.10 kg/lineal meter raw combined extrusion. The Bottom profile will be fitted with a weather insulating seal at the bottom. The Bottom Profile must allow for secure fitting of internal weight bars where required. The Bottom Profile must have undergone a multiple stage chromating procedure and be painted with baked-on paint. Bottom Profile to be acid, alkali, and oil resistant. The ends of the Bottom Profile must be capped off with a PVC caps.

**.4 Sill:**

If applicable, provide a 22 mm x 42 mm (7/8" x 1 11/16") L-shaped aluminum sill for the Habitat Screen bottom profile to rest upon when closed. Manufacturer's description: **L-SILL.**

**.5 Build-Up:**

If applicable, provide heavy-gauge aluminum build-up underneath the guide rails, along the panel box top, and panel box bottom. Unless otherwise specified, the width of the build-up is to be 35 mm (1 3/8"), depth to be suitable to provide obstruction-free operation of the habitat screen curtain.

**.6 Panel Box Housing:**

Panel boxes are to be precision roll formed from 1.0 - 1.2 mm (0.040" - 0.0472") aluminum with an electro-statically bonded and baked finish. Lower half of the panel box must be detachable for future servicing access. Panel box service lid to be secured with tamper-proof security screws on all panel boxes below 2.13 m (7') off the ground. All panels to be delivered to jobsite covered with protective, adhesive plastic film to prevent scratching. The protective film is to be removed by installer after job completion. All panel box endplates to be manufactured by pressure die-casting

**PART 2 - PRODUCTS***(continued)*

procedure from high grade aluminum alloy. Endplates must be chromed and laminated with a resistant PVC surface. The panel box style to be 5-corner. Panel box size is 125 mm, or 5".

**.7 Colour Selections:**

Unless otherwise indicated, items to be selected from manufacturer's standard colour range: white, beige, brown, black and silver.

- Habitat Screen™ curtain
- Habitat Screen™ bottom profile
- guide rails
- sill
- aluminum build-up
- panel box housing.

**.8 Operation:**

Unless otherwise indicated, the Habitat Screens shall be electrically operated. Provide a tubular 120 VAC motor installed inside the shaft. The motor shall be constructed with an internal Radio Frequency Receiver and electronically programmable limits. The motor unit shall be constructed with solenoid brakes, thermal overload protection switch with automatic reset and enclosed, permanently lubricated bearings and gears. The motor shall be controlled wirelessly by a solar powered RTS Sun Sensor. For service and building maintenance by district staff: Exterior Solaris RTS remotes required to allow for individual shade control and to allow for turning on/off sun sensors, to accommodate service and building maintenance needs.

All electrical components to be C.S.A. and U.L. certified.

The Wiring is per manufacturer's instructions and to local electrical code requirements.

Supply and installation of electrical wiring (including drilling of wiring routing holes through mounting surfaces), mounting of supplied electrical switches, and the connection of all wiring to be performed by the certified electricians.

**PART 3 – EXECUTION****3.1 Installation**

- .1 Habitat Screen and hardware as described herein shall be installed by approved Habitat Screen installers. Installers must be factory authorized and installation must proceed in accordance with manufacturer's installation instructions.
- .2 The Habitat Screen contractor shall provide written confirmation before commencing installation that its Workers' Compensation Board account is currently active and in good standing, and that all of its employees working on site are covered by the Habitat Screen contractor's WCB account.
- .3 The Habitat Screen contractor will supply and use mounting hardware suitable for the mounting surface application, including hollow-wall and concrete anchors when necessary. The mounting hardware size is to be a minimum of #8 x 2" Mounting hardware for the guide rails, build-up L-sills to be installed between 20 cm – 30 cm (8" – 12") on centres. The mounting hardware for the panel box to be installed between 40 cm – 50 cm (16" – 20") on centres, horizontally along the top inside corner of the panel box, and each screw head to be supplemented with a large flat washer to avoid tearing through the sheet aluminum. Each cast aluminum end plate on a panel box to be secured with one fastener to the mounting surface.

**PART 3 - EXECUTION**

*(continued)*

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When installation into brick or concrete surfaces is necessary, mounting hardware to be used shall be Tapcon style of suitable diameter and length.

- .4 Install Habitat Screens plumb, true, square and level, free from distortion or defects affecting appearance or performance. Adjust and test moving parts to ensure smooth operation.
- .5 Suitable exterior caulking to be applied by the Habitat Screen contractor around the exterior perimeter of the completed Habitat Screen installation to prevent infiltration of moisture, wind and debris behind the Habitat Screen when the curtain is fully closed.
- .6 All work to be completed in a professional, safe and timely manner.

**3.2 Clean-Up**

- .1 As the work proceeds and upon completion, clean up and remove from the site all rubbish and packages. Leave all Habitat Screen and fixed panel parts clean.

**3.3 Schedule**

- .1 As per the Jobsite Specification Addendum.