

SUN PROTECTION HABITAT PLUS CABLE GUIDED SYSTEM

Product and Installation Specifications

PART 1 - GENERAL

1 Related Work

- . Related work to be determined by project architect or owner's representative.
- . The work of this section covers the supply and installation of Habitat Plus Cable Guided Screen System called for on the drawings and herein specified.
- . The Talius authorized dealer, or general contractor, to provide all wood blocking and/ or solid mounting surfaces required for a proper installation.
- . If required, the Talius authorized dealer, or general contractor, to provide and install all flashing for Habitat Plus panel boxes.
- . If required, the Talius authorized dealer, or general contractor, to provide and install exterior and/or interior finishing trim for the Habitat Plus Screens.

1.2 Scope of Work

1.3 Quality Assurance

.1 Approved Manufacturer:

TALIUS

Head Office: PO Box 3279, Salmon Arm, BC V1E 4S1

Tel: 1-888-550-6205

Website: www.talius.com

E-mail: info@talius.com

1.4 Submittals

- . Shop drawings: submit shop drawings showing details of the Habitat Plus system including curtain material, cable system, panel box housing, operators and other relevant hardware.
- . Submit manufacturer's data sheets. Indicate specific cable guided screen system types, construction components, material finishes, and operators.
- . Habitat Plus cable guided screens are detailed on architectural drawings as scheduled. Sizes shown are nominal and confirmation by field measurement is required.
- . Submit sample of stock silver housing, standard fabric types, and fabric colours.

1 Products Delivery, Handling and Storage

- . 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 Operation and Maintenance

- . Habitat Plus Cable Guided Screen Systems are to be of maintenance free design.

1.7 Guarantee

- . 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 Habitat Plus

.1 The Habitat Plus curtain:

The Habitat Plus curtain is to be made from exterior, vinyl-coated polyester roller shade fabric. Standard fabric roll widths of 120 (+)" to minimize visible seams. Horizontal seaming of screen material is required when the height and width of the Habitat Plus exceeds the size of the fabric roll width.



PART 2 - PRODUCTS

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Fire classification for Habitat Plus 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:

	TuffScreen®	SunTex® 90	SunTex®95	SheerWeave® 4800
Openness Factor (O-F)	45%	10%	5%	1%
Weight	237.34 g/m ² 0.000352 lbs/inch ² 7.3 oz/yd ²	580 g/m ² 0.000829 lbs/inch ² 17.2 oz/yd ²	522 g/m ² 0.000742 lbs/inch ² 15.4 oz/yd ²	627 g/m ² 0.000892 lbs/inch ² 18.5 oz/yd ²
Thickness	0.68 mm, 0.027 inch	0.99 mm, 0.039 inch	0.74 mm, 0.029 inch	0.91 mm, 0.036 inch
Max. Width	120" (304.8 cm)	120" (304.8 cm)	126" (320 cm)	126" (320 cm)
Breaking Strength/lb	Warp: 140 lbs/inch Fill: 112 lbs/inch	Warp: 480 lbs/inch Fill: 310 lbs/inch	Warp: 350 lbs/inch Fill: 235 lbs/inch	Warp: 400 lbs/inch Fill: 120 lbs/inch
Stiffness		Warp: 400, Fill: 310	Warp: 520, Fill: 290	Warp: 800, Fill: 300
Composition	Vinyl on Polyester	31% Polyester 69% Vinyl on Polyester	28% Polyester 72% Vinyl on Polyester	24% polyester 76% Vinyl on Polyester
UV Blockage	Approx. 55%	Approx. 90%	Approx. 95%	Approx. 99%

.2 Cable Guide:

The curtain to be guided during operation by cables on both the left and right side of the curtain. Cable to be Stainless Steel 3/16" (4.78 mm) with a 1x19 strand construction. The cable to be contained within the housing and attached at top and bottom via machined stainless steel components, including a spring and tensioning system to allow adjustment for proper tensioning of the cable. Attachments will allow for either bottom mount or face mount at bottom of opening. Manufacturer’s description: **HABITAT PLUS CABLE GUIDE.**

.3 Bottom Profile:

The Habitat Plus 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 0.060" or 1.50 mm wall thickness and weighing 1.62 kg/lineal meter raw combined extrusion. The bottom profile can 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 and self-aligning cable guides.

.4 Panel Box Housing:

Panel boxes are to consist of an precision rollformed extruded aluminum back beam and square cover. The back beam has been designed for maximum strength with a wall thickness of .165" (4.2 mm) in areas used for support and attachment. The cover shall have a minimum wall thickness of .100" (2.54 mm) aluminum with an electro-statically bonded and baked finish. The cover must be detachable for future servicing



PART 2 - PRODUCTS

(continued)

access. The internal roller assembly must be removable for servicing while leaving the back beam installed. Support brackets for the roller tube assembly shall be machined with a wall thickness of 0.390" (9.9mm). Stainless steel trim and machined aluminum endcaps will complete the outside housing construction. All panels to be delivered to job site covered with protective, adhesive plastic film to prevent scratching. The protective film is to be removed by installer after job completion. The housing shall be 5.9" (150mm) tall x 6.75" (171 mm) Deep.

.5 Colour Selections:

Unless otherwise indicated, standard available colours shall be **SILVER**.

.6 Operation:

Unless otherwise indicated, the Habitat Plus 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. Talius recommends the use of sensors including wind sensors which are advisable on projects where the unit may be exposed to high winds such as on high rise applications.

All electrical components to hold at least one of the appropriate approvals; C.S.A., U.L, cUL, cRUus, or FCC.

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

- . Habitat Plus screens and hardware as described herein shall be installed by approved Habitat Plus Screen installers. Installers must be factory authorized and installation must proceed in accordance with manufacturer's installation instructions.
- . The Habitat Plus 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 Plus Screen contractor's WCB account.
- . The Habitat Plus screen contractor will supply and use mounting hardware suitable for the mounting surface application, including hollow-wall and concrete anchors when necessary. The contractor shall ensure secure fastening of all components and use of appropriate fasteners based upon the mounting surfaces. Contact Talius for fastener recommendations.
- . Install Habitat Plus screens plumb, true, square and level, free from distortion or defects affecting appearance or performance. Adjust and test moving parts to ensure smooth operation.

PART 3 - EXECUTION*(continued)***3.2 Clean-Up****3.3 Schedule**

- . When necessary, suitable exterior caulking to be applied by the Habitat Plus screen contractor around the exterior perimeter of the completed Habitat Plus screen installation to prevent infiltration of moisture, wind and debris behind the Habitat Screen when the curtain is fully closed.
- . All work to be completed in a professional, safe and timely manner.
- . As the work proceeds and upon completion, clean up and remove from the site all rubbish and packages. Leave all Habitat Plus screen and fixed panel parts clean.
- . As per the Job site Specification Addendum.