

HABITAT CLEAR for INCLEMENT WEATHER & INSECT CONTROL

Product and Installation Specifications

PART 1 - GENERAL

- 1 Related Work
- 1 Scope of Work
- 1 Quality Assurance
- 1 Submittals
- 1 Products Delivery, Handling and Storage
- 1 Operation and Maintenance
- 1 Guarantee

- .1 Related work to be determined by project architect or owner's representative.
- .1 The work of this section covers the supply and installation of the Habitat Clear unit 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 the Habitat Clear unit 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 Clear unit.
- .1 **Approved Manufacturer:**
**TALIUS Head Office: PO Box 3279, Salmon Arm, BC
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 Tel: 250-832-7777
 Fax: 250-832-8577
 Website: www.talius.com
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 - . Shop drawings: submit shop drawings showing details of the Habitat Clear unit including curtain material, guide rails, panel box housing, operators and other relevant hardware.
 - . Submit manufacturer's data sheets. Indicate Habitat Clear curtain material, construction components, material finishes, and operators.
 - . Habitat Clear units are detailed on architectural drawings as scheduled. Sizes shown are nominal and confirmation by field measurement is required..
 - . Submit samples of standard colours.
 - . 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.
 - . Habitat Clear units are to be of maintenance free design.
 - . 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 Clear

.1 The Habitat Clear curtain:

The Habitat Clear curtain is to be made from two different materials engineered specifically for exterior applications. The curtain border will be 6" (152.4 mm) in width on the sides of the curtain and 12" (304.8 mm) in width on the top and bottom of the curtain, made from a polyester micro-yarn base cloth with PVDF surface treatment and blocks 100% of UV rays. The weight of the border fabric is to be 16.8 oz/yd² with a thickness of 0.45 mm, 0.017 inch with a tensile strength of 3943.7 lbs/in. Manufacturer's description: **Soltis Proof502.**

PART 2 - PRODUCTS

(continued)

The centre of the Habitat Clear curtain is to be made from pressed polyvinyl with 90% UVA ray and 99% UVB/C ray protection. The weight of the clear polyvinyl is to be 18.4 oz/yd² with a thickness of 0.508 mm, 0.02 inch with a tensile strength of 200/200 daN/5 cm. Normal wear and tear will cause scuffs, scratches, and dimpling and special care and maintenance is required to minimize visual distortion or hazing over the lifetime of the product. Manufacturer's description: **PanoramaFR**.

Visible curtain seaming will occur when the width (A2) exceeds 64" (162 cm) and the height (B1) exceeds 76" (193 cm). Each side of the Habitat Clear curtain must feature a #4.5 Coil zipper attached via Radio Frequency welding process.

.3 Maximum Unit Dimensions:

The maximum width (A2) of a Habitat Clear Unit shall not exceed 120" (3.04 m) and a maximum height (B1) of 124" (3.15 m).

.4 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: **Pro Guide Rail with Edge Retention Insert**.

.5 Bottom Profile:

The Habitat Clear 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. Manufacturer's description: **Heavy-Duty Bottom Profile**.

.6 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 Clear curtain.

.7 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 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".

PART 2 - PRODUCTS

(continued)

.8 Colour Selections:

Unless otherwise indicated, items to be selected from manufacturer's standard colour range:

Unit Components: White, beige, dark brown, black or silver.

Border Fabric: White, beige, light brown, black or silver.

.9 Operation:

Unless otherwise indicated, the Habitat Clear unit 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.

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**

- . The Habitat Clear unit and hardware as described herein shall be installed by approved Talius installers. Installers must be factory authorized and installation must proceed in accordance with manufacturer's installation instructions.
- . The Habitat Clear 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 contractor's WCB account.
- . The Habitat Clear 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 – 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. When installation into brick or concrete surfaces is necessary, mounting hardware to be used shall be Tapcon style of suitable diameter and length.
- . Install Habitat Clear unit plumb, true, square and level, free from distortion or defects affecting appearance or performance. Adjust and test moving parts to ensure smooth operation.
- . Suitable exterior caulking to be applied by the Habitat Clear contractor around the exterior perimeter of the completed Habitat Clear installation to prevent infiltration of moisture, wind and debris behind the Habitat Clear unit when the curtain is fully closed.
- . All work to be completed in a professional, safe and timely manner.



PART 3 - EXECUTION

(continued)

hardware for the guide rails, build-up L-sills to be installed between 20 cm – 30 cm (8”

3.2 Clean-Up

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

3.3 Schedule

- . As per the Jobsite Specification Addendum.