

CANNABIS RETAIL

Product and Installation Specifications

PART 1 - GENERAL

1.1 Related Work

- .1 Related work to be determined by project architect or owner's representative.
- .2 The Client, or their General contractor, to provide all wood blocking and / or solid mounting surfaces required for a proper installation.
- .3 The Client, or their General contractor, to provide and install all flashing for rollshutter panel boxes.
- .4 If required, the Client, or their General contractor, to provide and install exterior and/or interior finishing trim for the rollshutters

1.2 Scope of Work

- .1 The work of this section covers the supply and installation of rollshutters detailed on architectural drawings, and/or the Jobsite Specifications Addendum and herein specified.

1.3 Quality Assurance

- .1 **Approved Manufacturer:**
TALIUS
Head Office: PO Box 3279, Salmon Arm, BC V1E 4S1
Tel: 1-888-550-6205
Email: info@talius.com

1.4 Product Delivery, Handling and Storage

- .1 Deliver materials to site in shipping crates and packing. Store un-installed materials off-site at a secure location prior to, and until, installation completion. Store off the ground on wood supports spaced to prevent damage, and under cover to prevent damage from weather. Coordinate delivery with construction schedule to prevent loss or damage.

1.5 Operation and Maintenance

- .1 Rollshutters are to be of maintenance free design.

1.6 Guarantee

- .1 Manufacturer to provide a written warranty that all components are guaranteed against defects in material, design and workmanship for one year from substantial date of completion. 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 Rollshutters

.1 The Rollshutter curtain:

The rollshutter curtain is to be made from individual roll formed aluminum profiles with an injected super-hard polyurethane foam core and shall have a cover width of 38 mm (1 1/2") and a thickness of 9 mm (11/32"). Minimum aluminum gauge to be 0.62 mm (0.0244"). Finish to be baked-on enamel with a dry film thickness of at least 0.05 mm (0.0020"). The minimum weight per square metre is to be 8.0 kg (0.0114 lbs/inch²). Manufacturer's description: **SAFE MINI**. Alternate slats are to be fitted with inserts to hold the curtain in alignment. The bottom of the curtain shall be finished with an extruded aluminum bar and fitted with a sealing bottom vinyl strip.

.2 Guide Rails:

The guide rails are to be minimum 0.065" or 1.60 mm gauge aluminum extrusions fitted with two noise and weather insulating strips. All guide rails must have

PART 2 - PRODUCTS*(continued)*

undergone a multiple stage pre-treatment procedure and be painted with a baked-on paint. Guide rails to be acid, alkali and oil resistant. The guide rail is to be made of two snap-together parts that prevent unauthorized access to the mounting screws. Curtain penetration into the guide rail shall be at least 41 mm (1 5/8") for sections less than 1.83 m (72") in width and at least 66 mm (2 5/8") for sections over 1.83 m (72") in width. Manufacturer's description: **SAFE RAIL**, and **SAFE-40 RAIL** respectively.

On rollshutter sections where width dimensions exceed 3.05 m (120"), split the rollshutter into two or more sections by means of a centre guide rail(s). Manufacturer's description: **SAFE CENTRE RAIL**.

.3 Sill:

If applicable, provide a 30 mm x 47 mm (1 1/8" x 1 13/16") U-shaped aluminum sill to hold the curtain securely in place when closed, achieving 1 3/8" penetration. The side wall thickness is to be minimum 0.080" or 2 mm gauge aluminum to reduce prying damage. Manufacturer's description: **SAFE U-SILL**.

Where the U-sill is exposed to weather, drill a minimum of two "weep" holes in the inside channel of the U-sill to allow for moisture drainage. Sill to be installed on all units where the curtain does not go all the way to the ground

.4 Build-Up:

If applicable, provide heavy-gauge aluminum build-up underneath the guide rails, along the panel box top, panel box bottom, and sill. 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 rollshutter curtain. If build-up requirements are greater than 1 5/8" then structural grade aluminum tubing is to be used.

.5 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 panel to be secured with tamper-resistant fasteners on all panel boxes less than 2.13 m (7') off the ground. All panels to be delivered to jobsite covered with protective, adhesive plastic film to prevent scratching.

Film to be removed by installer after job completion. Please note that custom painted panel boxes will not have protective adhesive plastic film. 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. Panel box style to be 5-corner. Panel box sizes to suit rollshutter dimensions. All panel boxes to have a grounding lug mounted on the inside of the endplate.

.6 Colour Selections:

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

- curtain
- guide rails
- aluminum build-up
- bottom curtain profile
- sill
- panel box housing

Customers have the ability to custom match any paint sample they may have or choose any custom colour of their liking with our vast paint selections that Talius can also provide.

Customers can have their custom logo on their roll shutters to promote their brand.

PART 2 - PRODUCTS*(continued)***.7 Anti-Graffiti Coating:**

All exterior mounted Talius rollshutter curtains, guide rails, sills and panel boxes shall be coated with Talius non-sacrificial anti-graffiti coating designed to allow for easy clean-up of graffiti from the exposed rollshutter surfaces. The Talius anti-graffiti coating is a modified aliphatic-polyurethane coating with enhanced abrasion resistance to provide resistance to chemicals, abrasions and impact. Talius anti-graffiti is a clear coat that provides a gloss finish over stock and custom colors and offers color retention and a non-stick surface. It is applied with a dry film thickness of 1.0 – 2.0 mils (25-50 microns). Hardness: ASTM D3363, 2H. Solvent Resistance: ASTM D4752, 100 MEK rubs; NO failure. Abrasion Resistance: 1000 cycles CS-17, ASTM D4060, 32 mg loss. Impact Resistance: ASTM D2794, 40 in lbs; NO failure. Flexibility: ASTM D522, 1/8" mandrel bend; NO failure.

.8 Operation:

Unless otherwise indicated, the rollshutters shall be electrically operated. A tubular 120 VAC motor shall be installed inside the shaft. 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 be U.L. certified. For units covering points of egress, the motor shall be connected to a battery back-up multi-interface system which can be connected to the fire alarm and which will ensure the units open in the event of a fire and will continue to operate in the case of a power failure. Units covering key points of egress shall be controlled as a group on command from the alarm system with battery back-up (as outlined in 2.1.10 below) in case of fire or power failure. Each motor unit shall be controlled by a momentary-contact, three position switch. The main entrance door shall be controlled by a high security key switch recess mounted into the wall.

All switches to fit standard electrical boxes or be supplied with their own electrical box. Locations for switches as shown on drawings. All wiring as 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 certified electricians.

.9 Multi-Interface Battery Back-Up:

Motorized Units identified to be in critical exit locations in case of fire or emergency will be connected to a Battery Back-Up Multi-Interface unit, in conjunction with operating procedures. The units will automatically open in case of fire alarm. The stored power of the system ensures that this critical safety mechanism works regardless of power supply. The battery back-up and control system shall be of either 2 motor or 4 motor configuration and will be finished in an approved enclosure (18" x 18" x 6" for 2 motor control; 24" x 24" x 8" for 4 motor control). All components shall be mountable via DIN Rail or similar snap track design. All motors connected to the control system shall operate simultaneously either via a master switch or via the fire alarm system. Maximum combined draw for motors shall be either 510 Watts for a 2 motor configuration or 1020 Watts for a 4 motor configuration. Transfer Time shall typically be less than 8ms with a run time of 2 minutes at full load. The system includes audible and visual alarms and indicators. All components to be approved and listed by recognized electrical authority in Canada.

PART 2 - PRODUCTS*(continued)***.10 Locking Devices:**

All rollshutters will be equipped with hanger locks constructed of corrosion resistant materials. Hanger locks are to be installed at sufficient intervals between shaft and curtain in order to prevent the curtains from being lifted by more than 40 mm (1 9/16") from the closed position, without the use of an operator. Talius hanger locks meet the requirements of European Standard EN 13659 and resist an upward force of 100 kg (220 lbs).

.11 Burglar Alarm Connection

Alarm contacts to be installed in the rollshutter such that any attempt to tamper with, or break in through, the rollshutter will result in activation of the building burglar alarm system. The Honeywell 951WG magnetic contact sensor is installed in the guide rail such that it is aligned with a special magnet installed in the rollshutter curtain when closed. Likewise, a sensor and magnet are installed in the panel box to ensure the cover cannot be removed to tamper with the operator without triggering the alarm. All motors will be located on the left endplate to accommodate this feature.

PART 3 – EXECUTION**3.1 Installation**

- . Rollshutters and hardware as described herein shall be installed by approved rollshutter installers. Installers must be factory authorized and installation must proceed in accordance with manufacturer's installation instructions.
- . The rollshutter 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 rollshutter contractor's WCB account.
- . The rollshutter contractor to supply and use suitable mounting hardware for the mounting surface application, including hollow-wall and concrete anchors, where necessary. Mounting hardware size to be a minimum of #8 x 2". Mounting hardware for the guide rails, build-up and U-sills to be installed between 20 cm – 30 cm (8" – 12") on centers. Mounting hardware for the panel box to be installed between 40 cm – 50 cm (16" – 20") on centers, 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, two if the rollshutter curtain weight exceeds 22 kg (50 lbs). When installation into brick or concrete surfaces is necessary, mounting hardware to be used shall be Tapcon style of suitable diameter and length.
- . Install Rollshutters 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 rollshutter contractor around the exterior perimeter of the completed rollshutter installation to prevent infiltration of moisture, wind and debris behind the rollshutter when the curtain is fully closed.
- . All work to be completed in a professional, safe and timely manner.

3.2 Clean-Up

- . As the work proceeds and upon completion, clean up and remove from the site all rubbish and packages. Leave all rollshutter and Vandal Panels parts clean.

3.3 Schedule

- . As per the Jobsite Specification Addendum.