

VANDALISM PROTECTION

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 rollshutters 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 rollshutter panel boxes.
- .4 If required, the Talius Authorized Dealer, or General contractor, to provide and install exterior and/or interior finishing trim for the rollshutters

1.3 Quality Assurance

- .1 **Approved Manufacturer:**
TALIUS
Head Office: PO Box 3279, Salmon Arm, BC V1E 4S1
Tel: 250-832-7777
Fax: 250-832-8577
Website: www.talius.com
E-mail: info@talius.com

1.4 Submittals

- .1 Shop drawings: submit shop drawings showing details of rollshutters including curtains, guide rails, panel box housing, operators and other relevant hardware.
- .2 Submit manufacturer's data sheets. Indicate specific rollshutter types, construction components, material finishes, and operators.
- .3 Rollshutters 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 Rollshutters 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 Rollshutters

.1 The Rollshutter curtain:

The Rollshutter curtain is to be made from individual rollformed aluminum profiles with an injected super-hard resin foam core and shall have a cover width of 38 mm and a thickness of 9 mm. Minimum aluminum gauge to be 0.62 mm. Finish to be baked-on enamel with a dry film thickness of at least 0.05 mm. The minimum weight per square metre to be 8.0 kg. Manufacturer's description: **SAFE MINI.**

PART 2 - PRODUCTS*(continued)***.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 undergone a multiple stage pretreatment 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 3.05m (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. 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.

.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.

.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 lid to be secured with tamper-proof security screws on all panel boxes below 2.13m (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 sizes to suit Rollshutters dimensions.

.6 Colour Selections:

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

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

.7 Operation:

Unless otherwise indicated, the Rollshutters shall be electrically operated. Provide a tubular 120 VAC motor installed inside the shaft. The motor unit shall be constructed with solenoid brakes, thermal overload protection switch with automatic reset and

PART 2 - PRODUCTS*(continued)*

enclosed, permanently lubricated bearings and gears. All electrical components to be C.S.A. and U.L. certified. The motor unit shall be connected to a manual override control in order to operate the rollshutter in case of power failure. A metal pin extrusion shall be connected to a stainless steel universal joint at a downward angle of at least 45 degrees. A long handle crank of at least 1450mm made from anodized aluminum shall be connected to the universal joint on the operating person's side. The crank shall have two joints and a wall mounted clip for storing when not in use. Color of the crank rod to be silver.

Each motor unit shall be controlled by a momentary-contact, recessed, three position key switch. Switches to fit standard electrical boxes. Coverplates to be polished steel with one-way security screws. Locations as shown on drawings.

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 certified electricians.

.8 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).

9. Anti-Graffiti Coating

All 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. Talius Anti-Graffiti coating is a modified aliphatic-polyurethane coating with enhanced abrasion resistance to provide resistance to chemicals, abrasions and impact. It is a clear coat that provides a gloss finish over stock and custom colors, and offers color retention and a non-stick surface. Anti-Graffiti coating 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 blend; NO failure.

PART 3 – EXECUTION**3.1 Installation**

- .1 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.
- .2 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
- .3 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

PART 3 - EXECUTION*(continued)*

– 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.

- .4 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.
- .5 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.
- .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 rollshutter and fixed panel parts clean.

3.3 Schedule

- .1 As per the Jobsite Specification Addendum.