

# ROLLSHUTTERS OVER 3000 mm WIDE

## 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: 250-832-7777 • Fax: 250-832-8577**  
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#### 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 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 rollformed aluminum profiles with an injected foam core and shall have a cover width of 77mm (3") and a thickness of 19mm (3/4"). Minimum aluminum gauge to be 0.62mm (0.0244"). The minimum weight per square metre is to be 4.64 kg. Manufacturer's description: **AG/77**. Alternate slats are to be fitted with SIDE LOCKS (SP/77-MSM) to hold the curtain in alignment and hook inside the guide rails. 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 a single extrusion with built in edge retention ledges that work with side lock inserts (SP/77-MSM). Manufacturer's description: **GR100 rails**. Each guide rail is to have 2 noise reduction weather stripping guides to provide no metal contact between the curtain and the inside edges of the rail. Rail to be 100mm (4") wide and 35mm 1 3/8" deep.



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**.3 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 35mm (1 3/8"), depth to be suitable to provide obstruction-free operation of the rollshutter curtain

**.4 Panel Box Housing:**

Panel boxes are to be precision rollformed from 1.0 - 1.2mm (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 2.13m (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 an abrasion resistant surface. Panel box style to be 5-corner using a roller guide at each end of the panel box, to allow for smooth guided entry into the guide rails. Panel box sizes to suit rollshutter dimensions. All panel boxes are to be CSA or UL certified and have a grounding lug mounted on the inside of the endplate.

**.5 Colour Selections:**

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

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

**.6 Operation:**

Unless otherwise indicated, the rollshutters shall be electrically operated. Provide a tubular 120 VAC hard wired motor (NO Radio Frequency motors accepted) 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 C.S.A. and U.L. certified. Each motor unit shall be controlled by a momentary-contact, three position switch.

All switches to fit standard electrical boxes and shall be Decora momentary contact style. 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 the School District's certified electricians, or other approved certified electricians as approved by the general.

The ground wire is to be grounded to the panel box end plate grounding lug.

**.6 Performance:**

All AG/77 shutters to have met or exceeded EN12424 class 2 wind load resistance testing. Maximum width 6500mm per single curtain section with a maximum surface area of 20m<sup>2</sup>.



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## **PART 3 – EXECUTION**

### **3.1 Installation**

- . Rollshutters 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 20cm – 30cm (8" – 12") on centers. Mounting hardware for the panel box to be installed between 40cm – 50cm (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 22kg (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.
- . 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 fixed panel parts clean.

### **3.3 Schedule**

- . As per the Jobsite Specification Addendum.