

HIGH-SECURITY

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 Modular Building Client to provide all wood blocking and/or solid mounting surfaces required for a proper installation.
- .3 If required, The Modular Building Client to provide and install all flashing for Rollshutter panel boxes.
- .4 If required The Modular Building Client to provide and install exterior and/or interior finishing trim for the Rollshutters.

1.3 Quality Assurance

- .1 **Approved Manufacturer:**
TALIOUS
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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 Product 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 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***(continued)***.1 The Rollshutter curtain:**

The rollshutter curtain is to be made from individual rollformed 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"). 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. The minimum weight per square metre is to be 8.0 kg/m² (0.0114 lbs/inch²). Manufacturer's description: **SAFE MINI**.

.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 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 when the curtain is in the down position. Curtain penetration into the guide rail shall be at least 66 mm (2 5/8"). Manufacturer's description: **SAFE RAIL**

.3 Sill:

If applicable, provide a 30 mm x 47mm (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 rollformed 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 for face mounting application. For reverse mounting, (built into the wall) a rear removable panel or an interior removable access panel are required.

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.

PART 2 - PRODUCTS*(continued)***.6 Colour Selections:**

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

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

.7 Operation:

All manually operated rollshutters shall be operated by means of a crank rod control. The rollshutter panel box housing shall incorporate a sealed, permanently lubricated worm wheel or crown & pinion gear. Each gear shall be of sufficient reduction and be equipped with a brake. Each gear shall incorporate either a bottom limit. A double-jointed universal with a ball bearing base shall be connected to the gear as shown on the drawings. A folding crank rod of at least 1,330mm length made of silver anodized aluminum shall be connected securely to the universal. The crank rod's turning radius shall be at least 180mm. There shall be a wall mounting clip for crank rod storage when not in use.

.8 Locking Devices:

All rollshutters will be equipped with hanger lock constructed of corrosion resistant materials or an approved alternate automatic locking device. 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 100kg (220lbs).

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 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 hardware for the guide rails, build-up and U-sills to be installed between 20 cm – 30 cm (8" – 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, 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.

PART 3 – EXECUTION

(continued)

- .3 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.
- .4 Suitable exterior caulking is 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.
- .5 All work to be completed in a professional, safe and timely manner.