



Ezi 100 Poly

Specification Document

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Aluminium / Polycarbonate Roller Shutter

The Ezi 100 Poly is a polycarbonate and aluminium roller shutter manufactured by Ezi-roll Doors Australia. The door is a member of the Ezi-roll showcase door products range. The transparent curtain is specifically designed with retailers in mind, allowing for continual showcasing and product advertisement when the door is closed.

The Ezi 100 Poly, provides a high level of security whilst maintaining the feel of openness between internal and external spaces, making it ideal for shopfronts, arcades, sporting complexes, clubs, bars and counter tops. The Ezi 100 Poly can be supplied in a vast range of sizes and colour finishes.

Ezi-Roll Polycarbonate / Aluminium Roller Shutter – The Showcase Door

The Ezi 100 Poly is constructed from clear polycarbonate extrusions interlocked with convex aluminium sections. The door curtain is designed to provide maximum visibility allowing the retailer to showcase their products whilst the business is unattended. The interlocked aluminium slats enhance door strength and are fitted with nylon moulded end clips to reduce friction and lateral movement. The Ezi 100 Poly is supplied standard in a clear anodised finish (matt natural) however aluminium components may be powder coated in different colours on request.

History

Ezi-roll Doors Australia has been manufacturing roller shutters and grilles since 1971. Since its inception has been continuously developing its suite of products in both design and manufacturing efficiencies. The Ezi 100 Poly aluminium and polycarbonate roller shutter is one example and it is featured below.

Recommended Application

The Ezi 100 Poly is suitable for openings ranging from 1m-4m high and up to 6.4m wide. This shutter is the ideal security and finish for shopping centre shopfronts, arcades, sporting complexes, clubs, bars and counter tops.

Spring Assisted Drum Assembly

The spring assisted counterbalanced roller drum is fabricated from high quality steel spiral ducted tube or spiral welded tube. The central shaft carries helical springs to ensure a smooth and effortless operation.

Bottom Rail

The Ezi 100 Poly is supplied with a sturdy T-Rail aluminium bottom rail which provides additional strength to the door. This bottom rail may be supplied with an optional weather seal to prevent the unwanted entry of foreign particles.

Architectural Specification

Proprietary Item: Ezi-roll "aluminium & polycarbonate roller shutter"

Ezi 100 Poly or equal approved. *Refer to technical drawings for locations.*

Door Curtain: 100mm polycarbonate interlocking with 30mm rigid aluminium sections. Each aluminium section is fitted with moulded end caps to reduce friction. Running in 50mm x 30mm extruded guides.

Clear anodised or powder coat finish.

Size: for openings up to 4m high and 6.4m wide.

Perforations: provide 95mm x 25mm vent slots at 70mm spacing where required in the roller shutter.

Roller Drum: 229mm spiral drum rotating on a 34mm heavy duty shaft fitted with helical springs to counterbalance the door in accordance with the manufacturers specifications.

Operation: roller shutter can be either manually operated or motorised depending upon size requirements.

Installation

General

Requirement: install overhead doors in conformance with Ezi-roll's recommendations and as documented.

Preparation

Substrate: before starting installation, check the alignment of substrates or framing and adjust if required.

Clearances: confirm clearances as per shop drawing. Check openings accommodate support brackets and door guides with the required clearances.

Assembly: assemble guide parts, axle parts, driving parts and slats or curtains.

Guide system

Requirement: install guide system as follows:

- Plumb, level, straight, true, and within tolerances and clearances recommended by the manufacturer and including installation points level at guide ends.
- Fixed or anchored to the building structure using mechanical fixings suitable for the substrate, the imposed loads and the door size.
- Isolated from any building loads, including loads caused by structural deflection or shortening.

Counterbalancing

Requirement: counterbalance steel springs to Ezi-roll's recommendations.

Manual/Automatic Operation

The Ezi 100 Poly can be manually or electrically operated. There is a range of electric motors available depending on application and usage.

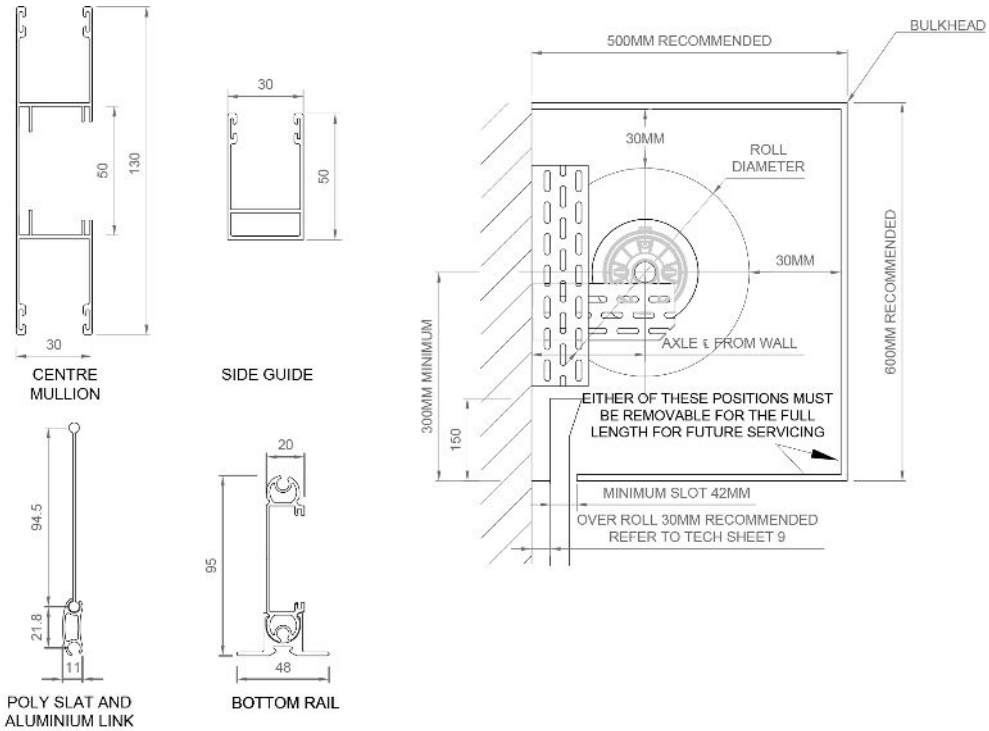
Versatile Tracking System

The 50mm x 30mm aluminium door tracks can be mounted between fix or behind fix. The guides can also accommodate a mohair felt buffer to ensure a quieter operation. All manual doors are fitted with door stops.

Locking

The Ezi 100 Poly may be fitted with a centrally mounted locking mechanism within the mid rail at approximately 900mm above floor level or alternately within the bottom rail. The locking mechanisms are generally concealed behind extruded covers for aesthetics and tamper proofing. Locking is not recommended for motorised doors.

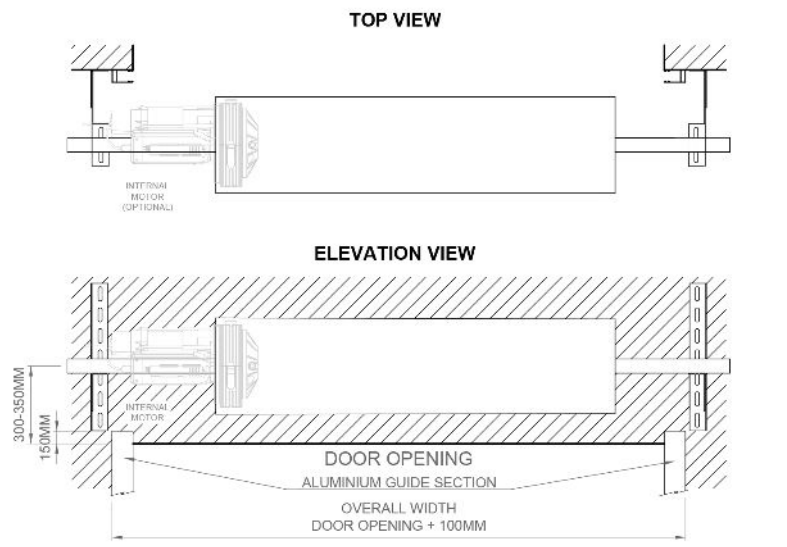
Technical Detail



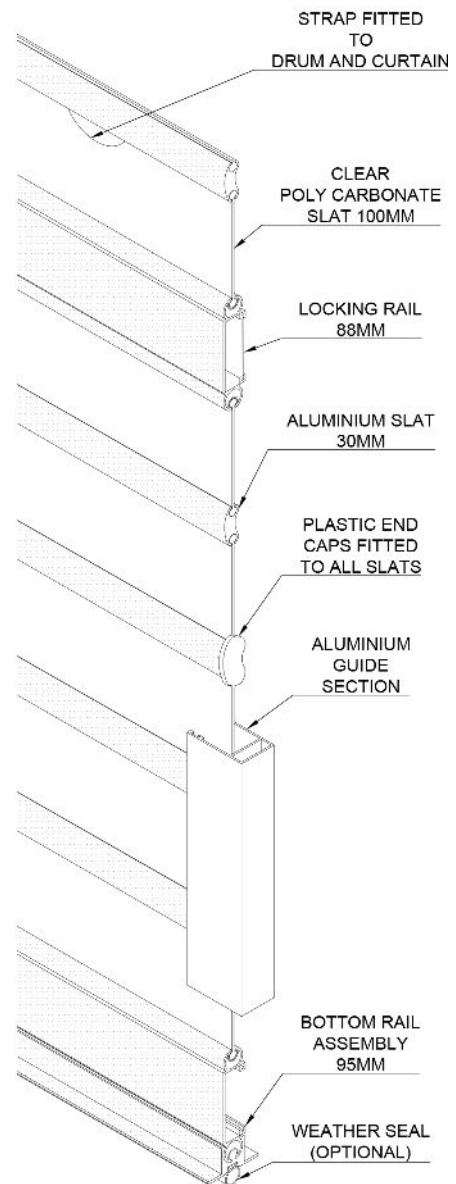
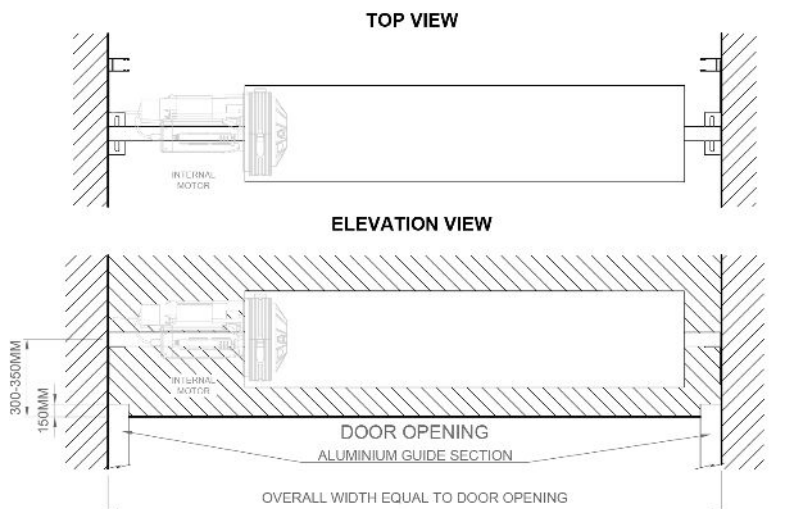
| DRUM Ø229 | | |
|-------------|---------------|---------------------------|
| DOOR HEIGHT | ROLL DIAMETER | AXLE ϵ FROM WALL |
| 900 | 290 | 155 |
| 1200 | 290 | 155 |
| 1500 | 290 | 155 |
| 1800 | 300 | 160 |
| 2100 | 300 | 160 |
| 2400 | 310 | 165 |
| 2700 | 310 | 165 |
| 3000 | 320 | 170 |
| 3300 | 320 | 170 |
| 3600 | 340 | 180 |
| 4000 | 340 | 180 |

ALL DIMENSIONS ARE IN MM

BEHIND WALL FIX



BETWEEN WALL FIX



Operation

Manual operation

General: install so that the force required to operate the door manually is safe and effortless.

Manual method: provide a manual door operating system incorporating the following, as documented:

- Hand stick (for high openings): by a boat hook type pole supplied with the installation
- Chain: by pulling on a chain passing over a sprocket on the drum, with reduction gears where necessary.

Motorised operation

General: provide a motorised door operating system incorporating the following:

Contact Ezi-roll Doors Australia for the range of single and 3 phase GFA – Elektromaten or Grifco electric motors available, depending on usage and application. They can be interfaced with external access devices such as remote control transmitters, exit loops, key pads, card readers or similar.

- A single or three phase electric motor with limit switches, and of adequate capacity to operate the specified door smoothly and without strain.
- Motor type: AC or DC motor (DC motors are generally considered to be quieter). Ezi-roll motor suppliers include Grifco, GFA – Elektromarten, Ezi-roll – ECR 600 and Elsamec for aluminium doors.
- Drive type: manual, chain or direct drive. Consider structure-borne sound generated by motor and drive, particularly in multi-unit residential buildings.
- Overload cutout.
- Optional standard light fixture, automatically switched on when opener is activated, and switched off by timer (generally retain for single dwelling applications, and not applicable for multi-unit residential, commercial and other applications where other area lighting is provided).
- Manual release handle to disengage door from drive mechanism in the event of a power failure.
- Operation by battery-powered radio remote controller, supplied as part of the system.
- Quantity of programmed remote controllers: 2 (can vary depending on project requirements).
- Additional operation by push-button or key switch, located 1500 mm above floor level.

Aluminium Rolling Grille Door Schedule

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Product: Ezi 100 Poly.

Frequency of use: contact Ezi-roll Doors Australia for Ezi-roll's high and low cycle use products.

Door finish: select from clear anodised or powder coated.

Bottom rail weatherseal: e.g. required, or not required.

Slots: provide 95mm x 25mm vent slots at 70mm spacing where required in the roller shutter.

Counterbalance spring: contact Ezi-roll Doors Australia. Standard spring.

Guide system: select from between fix or behind fix.

Mohair buffers: e.g. required, or not required.

Guides can accommodate a mohair felt buffer for quieter operation.

Drum: spiral wound or spiral welded.

Contact Ezi-roll Doors Australia for selection, depending on door size and application.

Sized to suit the door. Contact Ezi-roll Doors Australia.

Operation: select from

- Manual: hand lift or chain lift.
- Motorised: direct drive or chain drive.

Locking: centrally mounted lock at 900 mm or centrally mounted lock within bottom rail.

Completion

Operation

General: make sure moving parts operate freely and smoothly to Ezi-roll's recommendations, without binding or sticking, at correct tensions or operating forces and that they are lubricated where appropriate.

Safety: make sure all safety features are operating and all obstacles removed from the door operating area.

Remote control device: make sure devices are programmed and operating.

Motor limits: set

Protection

Temporary coating: on or before the date for practical completion of the works, or before joining up to other surfaces, remove all traces of temporary coatings used for protection.

Warranty

A 12 month limited material, labour and workmanship warranty applies to the Ezi 100 Poly as a standard cycle use product.

Use only where warranties extending beyond the defects liability period are available for the particular system. Insert the required warranty period and terms, which should be negotiated beforehand. If the warranty is in the form of separate material and installation warranties, require the signatures of both manufacturer and installer. The form(s) required should be provided as part of the contract documentation.

Aluminium Rolling Grille Door Schedule

| | ASO1 | ASO2 | ASO3 |
|------------------------------------|------|------|------|
| Product | | | |
| Frequency of use (cycles per year) | | | |
| Door finish | | | |
| Bottom rail weatherseal | | | |
| Slots | | | |
| Perforations | | | |
| Counterbalance spring | | | |
| Guide System | | | |
| Mohair buffers | | | |
| Drum | | | |
| Operation | | | |
| Locking | | | |

Disclaimer

Ezi-roll Doors Australia reserves the right to alter and or improve its products or any accessories at any time without notice and without incurring any obligation to make similar improvements to products previously ordered or sold.