



Ezi 300

Accordian

Specification Document

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Aluminium / Polycarbonate Bi-fold Door

The Ezi 300 Accordion is an aluminium and polycarbonate bi-folding door manufactured by Ezi-roll Doors Australia. This door, whilst versatile in its application, forms part of the Ezi-roll aluminium retail door range. The Ezi 300 Accordion is a folding shutter that allows greater space utilisation and flexibility across the shopfront opening.

The Ezi 300 Accordion is manufactured standard with polycarbonate infill panels allowing retailers to showcase their products while the door is securely locked. A desirable feature of this door is its ability to be discreetly stored at the side of the shopfront opening, in specially designed enclosures. The Ezi 300 Accordion can also be supplied in a vast range of styles and colours, ensuring company branding may continue across the entire retail space.

Ezi-roll Retail Door Range

Ezi Accordion is a self-hinging 150 or 300 mm aluminium frame fitted with polycarbonate in-fills.

Ezi Accordion is an aluminium and poly-carbonate bi-folding door that allows retailers to showcase their products while the door is securely locked. A desirable feature of this door is its ability to be discreetly stored at the side of the shopfront opening, in specially designed enclosures. For openings up to 4.2 m high and unlimited widths.

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 300 Accordion aluminium and polycarbonate bi-folding door is one example and it is featured below.

Recommended Application

The Ezi 300 Accordion can be manufactured for openings of heights up to 4.2m and extended across any width. This shutter is aesthetically pleasing in its contemporary design ensuring it is ideal for retail shop fronts, arcades, sporting complexes, clubs and bars.

The Bi-folding Door

The Ezi 300 Accordion is designed to provide retailers with a contemporary, easy to use mechanism for ensuring the security of their products whilst maximising merchandise advertisement.

The Ezi 300 Accordion's standard construction includes a specially designed aluminium extrusion, interlocking 175 degree hinges and polycarbonate infill panels. The aluminium extrusion is lightweight allowing the door to be concertinaed into a confined space.

The Ezi 300 Accordion can be manufactured with optional opaque polycarbonate, toughened glass, solid aluminium or perforated steel/ aluminium infill panels. The Ezi 300 Accordion is available standard in clear anodised finish however aluminium components may be powder coated in a colour to suit, on request.

Architectural Specification

Proprietary Item: Ezi-roll "Bi-Folding Door" Ezi 300 Accordion or equal approved. Refer to technical drawings for locations.

Door Curtain: a nominal 300mm wide aluminium frame fitted with polycarbonate in-fills. The panel frame is self-hinging.

Size: for openings up to 4.2m high. Unlimited width.

Operation: the bi-folding door is manually operated. The door may be stacked to one side or centre parted to stack to either side of the opening.

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 300 Accordion is manually operated and may be stacked to one side of an opening or centrally parted to stack evenly to both sides.

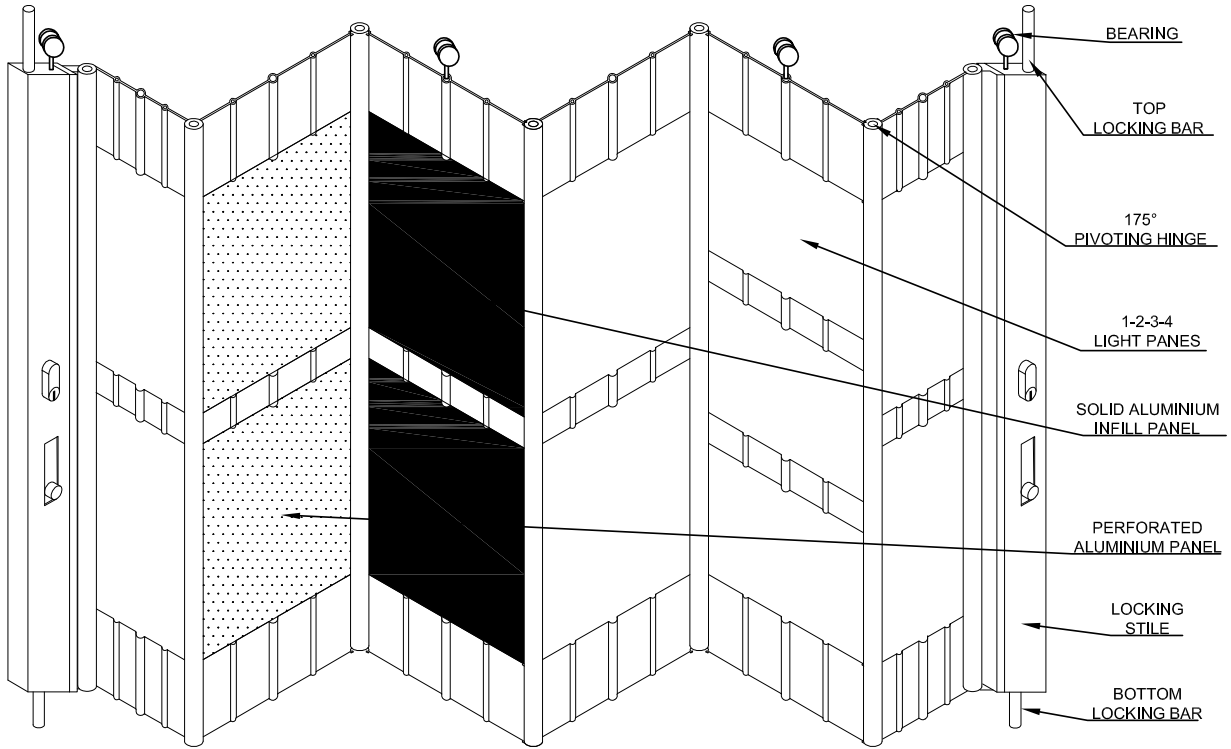
Versatile Tracking System

The Ezi 300 Accordion is supplied with a 43mm x 35mm ceiling hanging tracking system allowing the door to be operational without interruption to the pedestrian space, reducing the risk of tripping hazards. Each alternative panel of the Ezi 300 Accordion door is fitted with heavy duty bearings ensuring ease of operation and sustained door life.

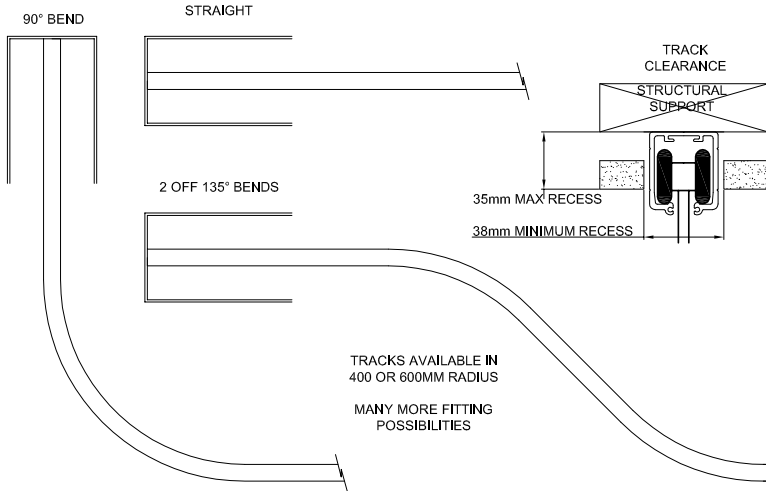
Locking

The Ezi 300 Accordion is manufactured with a concealed locking system housed within a two piece aluminium extrusion and cover plate. The locking system contains a removable cylinder allowing for easy rekeying. The Ezi 300 Accordion is fitted with a ceiling to floor locking mechanism at each end and intermediate curtain to floor locking at approximately 2 metre intervals.

Technical Detail



STACKING BOX LOCATIONS



STACKING BOX SIZES

OPENING WIDTH	BOX WIDTH 350MM		BOX WIDTH 200MM	
	SINGLE STACK	BI-PARTING	SINGLE STACK	BI-PARTING
1000	246	-	294	-
1500	278	-	358	-
2000	403	-	515	-
2500	435	-	579	-
3000	467	270	643	358
3500	499	286	707	390
4000	624	403	864	515
4500	656	419	928	547
5000	688	435	992	579
5500	720	451	1056	611
6000	861	459	1120	643
6500	893	475	1184	675
7000	909	491	1248	707
7500	941	507	1312	739
8000	1082	624	1562	864
8500	1114	640	1626	896
9000	1146	656	1690	928

ALL DIMENSIONS ARE IN MM

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 three phase Elsamec 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 Uniko 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 photocell or IR beam safety device.
- 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 or per client request.

Aluminium Bi-folding Curtain 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 300 Accordian.

Frame width: select from 150 or 300 mm. Contact Ezi-roll Doors Australia

- Stacking operation: select from one sided or centre parted. The bi-folding door is manually operated.
- In-fill: select from polycarbonate, perforated aluminium or solid aluminium panels. Contact Ezi-roll Doors Australia.

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 300 Accordian 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 Bi-folding Curtain Door Schedule

	ABO1	ABO2	ABO3
Product			
Frame width			
Stacking operation			
In-fill			
Guide system			
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.