

ACEDOORS SPEEDSHUTTER™ HIGH SPEED ROLLER SHUTTER

1. GENERAL

This section relates to the manufacture, supply and installation of:

- Model / Type: **SPEEDSHUTTER™ HIGH SPEED ROLLER SHUTTER**
- Description: Door Type in Door Schedule: AceDoors High Speed Roller Shutter
- Sizes: Suitable for openings up to 6000mm high x 5500mm wide and not exceeding 33m²

1.2. DOCUMENTS

Refer to general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

- AS/NZS 1170.2 Structural design actions – Wind loads
- NZS 1170.5 Structural design actions – Earthquake actions – New Zealand
- NZS 3604 Timber-framed buildings

1.3. MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to work in this section are:
AceDoors Technical Data Sheets, Fixing Layouts and Clearances, Wall Structure Details

Manufacturer/supplier contact details:

- Company: Ace Door Systems Ltd
- Website: www.acedoors.co.nz
- Email: sales@acedoors.co.nz
- Telephone: +64 9 273 4970

Warranties

1.4. WARRANTY – MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier warranty:

- 1 year: For High Speed Roller Shutter
- 3 years: By committing to 3 year Preventative Maintenance Agreement, that warranty will be extended by further 2 years ie: total 3 years warranty on all AceDoors

- Provide this warranty on AceDoors standard form.
- Commence this warranty from date of practical completion of contract works.

Refer to general section 1237 WARRANTIES for additional requirements.

1.5. WARRANTY – INSTALLER

Provide an installer warranty:

- 1 year: For High Speed Roller Shutter

- Provide this warranty on AceDoors standard form.
- Commence this warranty from the date of practical completion of the contract works.

Refer to general section 1237 WARRANTIES for additional requirements.

Requirements

1.6. QUALIFICATIONS

Installers to be experienced, competent door technician familiar with installation of these doors and approved by manufacturer.

1.7. NO SUBSTITUTIONS

No substitutions are permitted to any of specified systems, components and associated products listed in this section.

1.8. SITE SPECIFIC DRAWINGS

Refer to general section 1235 SHOP DRAWINGS for requirements for submission and review and provision of final shop drawings

1.9. INFORMATION FOR OPERATION AND MAINTENANCE

Provide following general operation and maintenance information as electronic PDF format documents:

- Operating instructions for doors and associated opening equipment
- Maintenance schedules to satisfy warranty terms including inspection, lubrication, adjustment and cleaning
- Electrical wiring diagrams for control equipment

Provide this information prior to practical completion.

Compliance Information

1.10. COMPLIANCE INFORMATION

Provide following compliance documentation:

- Manufacturer's, importer's or distributor's warranty
- Installer's warranty
- Producer Statement – Design from manufacturer / importer / distributor
- Producer Statement – Construction from supplier
- Other information required by BCA in Building Consent conditions

Performance General

1.11. RESPONSIBILITY FOR PERFORMANCE

Accept responsibility for structural and limited weathertight performance of completed door installation.

Performance – Wind (design by contractor)

1.12. DESIGN PARAMETERS – NON SPECIFIC DESIGN

AceDoors Speedshutter High Speed Roller Shutter is suitable for wind zone parameters of NZS 3604, table 5.4. Refer to general section 1220 PROJECT for details.

1.13. DESIGN PARAMETERS – SPECIFIC DESIGN

AceDoors Speedshutter High Speed Roller Shutter is suitable for wind zone parameters of AS/NZS 1170.2 subject to inclusion of double channel plate support at head to enable double wall fixings.

Performance – Seismic (design by contractor)

1.14. SEISMIC – NON SPECIFIC DESIGN

Design system and anchorage/fixings to resist earthquake loads of earthquake zone in accordance with NZS 3604, 5.3 **Earthquake Bracing Demand**. Refer to general section 1220 PROJECT for details.

1.15. SEISMIC- SPECIFIC DESIGN

Design system and anchorage/fixings to resist earthquake loads of earthquake zone in accordance with NZS 1170.5. Refer to general section 1220 PROJECT for details.

2. PRODUCTS

Roller Shutter

2.1. HIGH SPEED ROLLER SHUTTER

Roller Curtain - manufactured from 100mm wide x 23mm deep hollow section made up of two pieces: extruded aluminium outer combined with hardened PVC moulded inner section bonded using an insulating core of fire resistant expanded polyurethane foam. Slat value = 2.74 W / M² K
Door Guides - 'Speedshutter' galvanised steel 80mm x 78mm x 2.8mm thickness silenced door guides with full length PVC wear strips. Bottom Bar – Specially extruded heavy-duty extruded aluminium section which interlocks with bottom slat. A neoprene weather strip shall be fitted to bottom bar.

Drive operation, curtain finish, fixing durability, and optional extras as specified below.
Manufactured and installed to locations, dimensions, and details as scheduled and shown on drawings in accordance with manufacturer's requirements.

Door Components

2.2. MOTORISING

Purpose built electric motor assembly, complete with alternative method of operation required in event of power failure. Select from list below: (Refer to SELECTIONS)

- 3 phase, ½ horsepower 415v motor
- 3 phase, 1 horsepower 415v motor
- Single phase, ½ horsepower 240v motor

GFA Elektromaten drive system with Safedrive™ motorizing and digital limits set from controller. IP65 rated.

2.3. ACTIVATION OPTIONS

Opening, closing, security logic control and safety devices, etc required for operation of door.
Select from list below: (Refer to SELECTIONS)

- Push buttons
- Induction loops
- Hand held remote controls
- Radar

Controller - Control unit with LED display, soft start and stop and variable speed drive

2.4. SAFETY

Shall be GFA Elektromaten drive system with Safedrive™ double row integrated disc brake safety, certified to DIN EN 12604 / 12605 to prevent door falling accidentally. Standard bottom optical safety edge reverses door when contact is detected. In-line photo beam, thermal auto cut-of switch and emergency opening by built-in hand chain pulley system in case of power failure.

2.5. ADDITIONS

Select from list below: (Refer to SELECTIONS)

- Vision slats 79mm w x 52mm h polycarbonate double glazed positioned as per drawing
- Bird proofing is not provided as standard. Otherwise provide 100mm w nylon bird proofing brush slotted into aluminium carrier.

2.6. FINISHES

Curtain Finish: Select from list below: (Refer to SELECTIONS)

- Mill finish aluminium on external side with Titania hard/soft PVC internal side
- RAL powdercoat on external side with Titania hard/soft PVC internal side

2.7. FIXINGS

- Durability Zone B or C - Unless noted or specified otherwise, fixings shall be hot-dip galvanised (zinc) coated steel in accordance with AS/NZS 4680 and AS 1214.
- Durability Zone D or Geothermal - Unless noted or specified otherwise, fixings shall be manufactured from Grade 304 or Grade 316 Stainless Steel.

3. EXECUTION

Conditions

3.1. DELIVERY, STORAGE AND HANDLING

Take delivery of materials and goods and store AceDoor Systems components and accessories undercover on flat, level surface off floor as recommended by manufacturer. Keep dry and protect from damage and contamination at all times. Handle products in accordance with manufacturer's requirements to avoid scratching, distortion or other damage.

3.2. PRE-INSTALLATION REQUIREMENTS

Co-operate with other trades to ensure that all preliminary and preparatory works are completed to specification and as shown on drawings. Co-ordinate with other trades as required to install AceDoor Systems, mechanical operators and associated cabled services, to required operating functionality and tolerances. Where required, complete and submit for door manufacture; AceDoors Site Measure document confirming all door opening site-measurements, fixing types, and other necessary information prior to manufacture.

Installation Doors

3.3. MANUFACTURER'S REQUIREMENT FOR INSTALLATION

'SpeedShutter' High Speed Roller Shutter Door - Installation shall be in accordance with best practice health and safety procedures. Face mounted installation - fastened to face of the wall opening as shown on drawings, includes adjustable fixing brackets. - Install and commission High Speed Roller Shutter Doors to required operation and functionality in accordance with AceDoors installation requirements and Steel Fixing Set-out drawings, complete with drive system and controls and accessories as necessary and as selected. Installation tolerances shall not exceed AceDoors recommendations, door guides shall be plumb and parallel, head roller shall be true to level.

3.4. COMMISSIONING

Where required by NZ Building Amendment Act 2012, it is building contractor's responsibility to ensure all restricted building work is carried out by Licensed Building Practitioner. All installation and commissioning work shall be carried out by experienced and competent installers, familiar with specified products and installation techniques, in accordance with manufacturer's installation requirements and as shown on drawings. All work shall be such as to leave neat, efficient and robust installation. Do not install damaged or defective products.

Electrical wiring (by others) shall be carried out by qualified electrician in accordance with electrical standards and regulations. Electrician to connect power supply, set limits and commission the door. Door installer to verify operation of door.

Issue to the Owner copy of manufacturer's maintenance requirements and copy of AceDoors Product and Installation Warranties when commissioning completed.

3.5. DEMONSTRATION

Carry out start up procedures and verify proper operation of door. Demonstrate operation of door to the principal/principal's representative. Set security features to principal's requirements. Reset security features at practical completion of contract works.

Completion

3.6. ROUTINE CLEANING

Carry out routine trade cleaning of this part of work including periodic removal of all debris, unused and temporary materials and elements from site.

3.7. DEFECTIVE OR DAMAGED WORK

Check for damage and faults, replace or repair damaged or marked elements as necessary. Check that Ace Door Systems have been installed correctly and have been commissioned to required operating functionality. Adjust operation of equipment and moving parts not working correctly.