

# 5258W WON-DOOR FOLDING DOORS AND PARTITIONS

## 1. GENERAL

This section relates to the supply and installation of WON-DOOR accordion folding doors and partitions.

It includes:

- Non-acoustically rated folding partitions

### 1.1 RELATED WORK

Refer to ~ for ~.

### 1.2 ABBREVIATIONS

Refer to the general section 1232 INTERPRETATION & DEFINITIONS for abbreviations and definitions used throughout the specification.

The following abbreviations apply specifically to this section:

STC sound transmission class rating

Rw weighted sound reduction index

FRR Fire resistance rating

### Documents

### 1.3 DOCUMENTS

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

BS 476: Part 22:1987 Fire tests on building materials and structures. Methods for determination of the fire resistance of non-loading elements of construction.

SS 489:2001 Specification for fire shutters

ASTM E90 Standard test method for laboratory measurement of airborne sound transmission loss of building partitions and elements

### 1.4 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:

WON-DOOR architectural catalogue

Underwriters Laboratories Inc.® File R6799-2 Project 97NK30045 Report on Special Purpose Type Fire Door

Underwriters Laboratories Inc.® File R12272 Report on Units, Partition Panels under the Classification Program

BRANZ FAR 3064 - Fire resistance of a horizontal folding curtain to SS 489:2001

BRANZ FAR 3110 - Fire resistance of a Won-Door fire rated curtain with variations to construction

BRANZ FAR 3571 - Fire resistance of a horizontal folding curtain to BS 476: Part 22:1987

BRANZ FAR 3576 - Fire resistance of a Won-Door fire rated curtain with variations to construction

Manufacturer/supplier contact details

Company: Won-Door (NZ) Ltd

Web: [www.won-door.co.nz](http://www.won-door.co.nz)

Email: [won-door@xtra.co.nz](mailto:won-door@xtra.co.nz)

Telephone: 09 634 2242

### Warranties

### 1.5 WARRANTY - FOLDING PARTITION SYSTEMS

Provide a Won-Door (NZ) Ltd warranty for:

3 years: For materials and workmanship

- Provide the warranty in the standard form in the general section 1237WA WARRANTY AGREEMENT.

- Commence the warranty from the date of practical completion of the contract works.

## **Requirements**

- 1.6 **NO SUBSTITUTIONS**  
Substitutions are not permitted to any specified WON-DOOR brand products, components or accessories.
- 1.7 **SAMPLES**  
Submit on request samples of panels for approval of colour and finishes.
- 1.8 **SHOP DRAWINGS**  
Refer to the general section 1235 SHOP DRAWINGS for the requirements for submission and review and the provision of final shop drawings.

Provide shop drawings to show the general arrangement including, but not be limited to: Indication of required stacking depth, storage pocket width and height of header above finished floor. Show installation details, layout, and electrical requirements.

If requested provide the following additional information:

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Submit shop drawings for review to the Contract Administrator.

- ~ working days (at least) before fabrication is planned to commence, provide shop drawings for review.
- Complete shop drawing review before commencing fabrication.

- 1.9 **QUALIFICATIONS**  
Installation to be carried out by WON-DOOR (NZ) Ltd authorized installers.
- 1.10 **SERVICE REQUIREMENTS**  
WON- DOOR Folding Door and Partitioning System to be checked at a frequency as agreed with the manufacturer, and in accordance with manufacturer's recommendations. Provide service plan in writing with tender.
- 1.11 **OPERATION AND MAINTENANCE MANUALS**  
Refer to the general section 1239 OPERATION & MAINTENANCE for the requirements for submission and review of operation and maintenance manuals.

Provide the following operation and maintenance manual(s):  
Remote and automatic control systems for fire-rated folding doors, movable fire walls and security doors (SteelCurtain) systems

Include the following in the operation and maintenance manual(s):  
Door openings to be kept clear of all obstructions, for example, movable fittings and any items that may compromise the operation of the doors during emergency conditions.

## **Performance**

- 1.12 **CERTIFY PERFORMANCE**  
Provide certificate of compliance with the requirements of this specification for acoustics and fire.

### **Performance - acoustics**

- 1.13 **ACOUSTIC REQUIREMENTS**  
Folding partitions have been tested by an independent acoustical laboratory in accordance with ASTM. E-90 test procedure and has attained a STC rating of 43.
- 1.14 **ACOUSTIC DOOR SEALS**  
To ASTM E-90.

## **Quality control and assurance**

1.15 INSPECTIONS  
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## **2. PRODUCTS**

### **Materials - non-acoustic system**

2.1 WALL PANEL - DURAFLEX 45 FOLDING PARTITION  
DuraFlex™ 45 Folding Partition:  
Panel comprising of a single wall with panels 115mm wide x 1.50mm thick of v-grooved extruded aluminium. Panels connected by full height extruded vinyl hinges. Hanging weight of partition 9.75 kg/m<sup>2</sup>. Maximum height 6.0 metres. Refer to 4.SELECTIONS for panel option.

2.2 SUSPENSION SYSTEM  
Single extruded aluminium track attached to the overhead structural support. Panel suspended by a 9.5mm diameter aluminium hanger pin and a 25mm diameter nylon-tired ball bearing roller.

2.3 LEAD-POST  
Lead-post comprising of 50mm x 38mm x 1.9mm extruded aluminium section suspended by a 6-wheel ball bearing carrier, connected to the body of the partition by manufacturer designed extruded aluminium panels.

### **Components - acoustic and non-acoustic systems**

2.4 HARDWARE  
WON-DOOR standard grip-type handles and sliding latch.

2.5 PERIMETER SEALS  
Continuous extruded vinyl sweep strips attached to the top and bottom of the partition. Leading edges of the lead-posts and receiver posts sealed by extruded vinyl interlocking seals.

### **Finishes - acoustic and non-acoustic systems**

2.6 POWDER COATING  
Manufacturer supplied factory applied electrostatic powder coat system.  
Refer to 4.0 SELECTIONS for colour options.

## **3. EXECUTION**

### **Conditions**

3.1 DELIVERY, STORAGE AND HANDLING  
Take delivery of materials and goods and store on site and protect from damage. Protect finished surfaces, edges and corners from damage. Move/handle goods in accordance with manufacturer's requirements. Reject and replace goods that are damaged or will not provide the required finish.

3.2 PRE-INSTALLATION REQUIREMENTS  
Ensure substrate opening plumb, level and in true alignment. Check that headers are levelled with the floor to within ±3mm tolerance over the entire length of the opening. Confirm that all support structures, surrounding insulation, jambs and blockings are in accordance with WON -DOOR requirements prior to installation of the folding partitions and doors. Inspect openings prepared for fire doors and surrounding conditions. Notify the Contract Administrator in writing of any unacceptable conditions.

- 3.3 PROTECT  
Protect adjoining areas, surfaces and finish from damage.

#### **Installation - aluminium folding partitions**

- 3.4 INSTALL FOLDING PARTITION  
Carry out the fixing, erection and fitting to finish rigid, plumb, true to line and face and square, to WON -DOOR requirements and carried out by WON-DOOR installers.
- 3.5 INSTALL COMPONENTS  
Install folding partition system components and fit hardware to WON-DOOR requirements. Carried out by WON-DOOR installers.

#### **Completion**

- 3.6 ROUTINE CLEANING  
Carry out routine trade cleaning of this part of the work including periodic removal all debris, unused and temporary materials and elements from the site.
- 3.7 DEFECTIVE OR DAMAGED WORK  
Repair damaged or marked elements. Replace damaged or marked elements where repair is not possible or will not be acceptable. Adjust operation of equipment and moving parts not working correctly. Leave work to the standard required for following procedures.
- 3.8 PROTECTION  
Provide the following temporary protection of the finished work:  
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#### **4. SELECTIONS**

For further details on selections go to [www.won-door.co.nz](http://www.won-door.co.nz)  
Substitutions are not permitted to the following, unless stated otherwise.

#### **Non-acoustically rated aluminium folding partitions**

- 4.1 NON-ACOUSTIC FOLDING PARTITION
- |                     |                   |
|---------------------|-------------------|
| Manufacturer:       | WON-DOOR (NZ) Ltd |
| Type:               | DuraFlex™ 45      |
| Location/reference: | ~                 |
| Width of opening:   | ~mm               |
| Panel height:       | ~mm               |
| Operation:          | Manual            |
| Face panel finish   | Powder coat       |
| Colour:             | ~                 |

#### **Components - aluminium folding partitions**

- 4.2 HARDWARE
- |              |           |
|--------------|-----------|
| Location:    | ~         |
| Type/Brand:  | WON-DOOR~ |
| Key locking: | ~         |
- 4.3 PERIMETER SEALS
- |             |           |
|-------------|-----------|
| Location:   | ~         |
| Type/Brand: | WON-DOOR~ |

#### **Structure**

4.4

#### STRUCTURE

The following structure is provided to hang the folding doors and partitions from, refer to drawings for details;

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