

# flexifold

## Acoustic Double Glazing Operable Wall


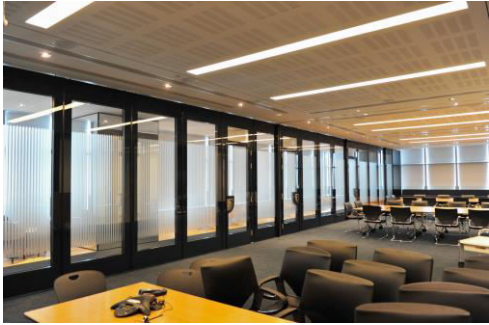



### Glass Series

隔音玻璃門款系列

|            |             |               |        |      |
|------------|-------------|---------------|--------|------|
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## FINISHES & MATERIAL SPECIFICATION SHEET

|                  |   |   |
|------------------|---|---|
| Item Description | Acoustic Double Glazing Operable Wall   |    |
| Model Type       | <b>Flexifold</b> Type G-100   |   |
| Dimensions       | Standard panel thickness - 100mm nominal<br>Refer to Corresponding Drawings   |   |
| External Frame   | 6063-T5 Aluminium Extrusion   |   |
| Finish           | Natural anodized finish   |   |
| Support Frame    | Construction Steel  |   |
| Corner Seal      | Foam  |   |
| Sound Seal       | E.P.D.M. Strip  |   |
| Facing Panel     | 10mm Thick Tempered Glass<br>Four sides With Silk Screen Printing<br>(Refer to corresponding drawings)  |   |
| Panels Size      | Each panel shall be of height and width to suit each specific location. Contractor shall propose the actual panel size for architect's approval.  |   |
| Supplier         | Flexifold International China Ltd.  |   |
| Address          | Rm 1501 Kwong Kin Trade Centre,<br>5 Kin Fat Street, Tuen Mun, N.T., HK   |   |
| Contact          | Tel : 852 2448 1807<br>Fax : 852 2448 0473<br>email : <a href="mailto:info@flexifoldhk.com">info@flexifoldhk.com</a><br>Web Site : <a href="http://www.flexifoldhk.com">www.flexifoldhk.com</a> |   |

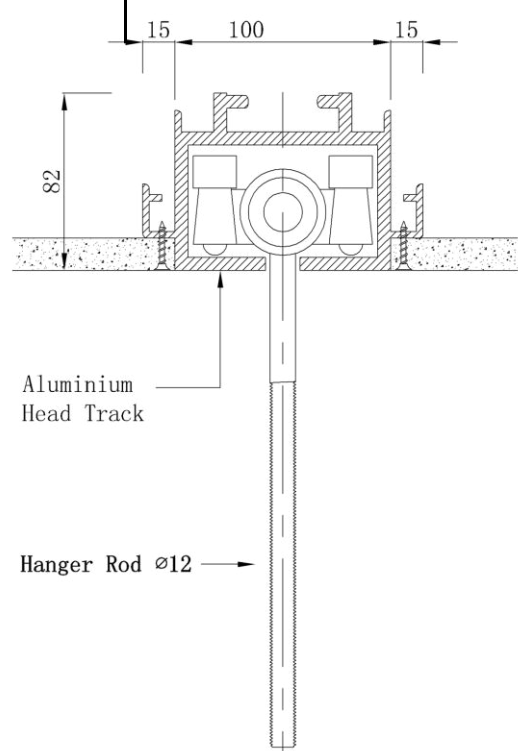
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### Track System - Type 'B'

Overhead track channel system shall be 'Flexifold' type B aluminium track formed of metal plate rigid enough to limit deflection to 1mm or less from the operation of the wall panels.

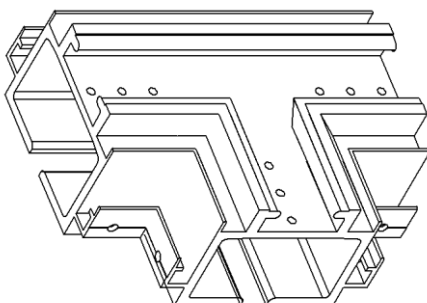
It is of paramount importance that the bulkhead surrounding the track and above the operable wall panels be properly sealed and constructed to prevent flanking transmission of noise. It shall be the responsibility of the Contractor supplying and installing these operable walls to provide details of the bulkhead for comments and approval by the Architect or his designated Consultant prior to actual construction.



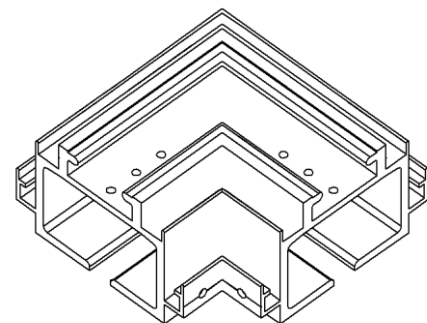
### Carriage System Materials and Specifications Table

| Model Type  | Name                            | Materials & Model No.                       | Load Computation (Unit)      | Remarks   |
|---|---------------------------------|---|------------------------------|---|
| B-Track System<br>(Partition Height From 1.8 to 6 Meters / Panel Weight up to 350kg Max.) | Aluminium Track                 | 6mm Thick Aluminium Extrusion (6063-T6)     | 65MPa                        | Surface finishing is standard white PVF II coated |
|   | Type B Connection Joint         | Construction Steel #304 Precise Die-casting | 250MPa                       | Surface finishing is standard white PVF II coated |
|   | Type B Multi-Directional Roller | φ40mm Steel Bearing (Model No.: 6203)       | 9.6kN (Load Ratings Dynamic) | Each roller contain 4 steel bearings              |
|   |                                 |   | 4.6kN (Load Ratings Static)  |   |
| Hanger Rod  | M12 High Tensile Hanger Rod     | 350MPa                                      | Two Points Suspension        |   |

### T- Joint



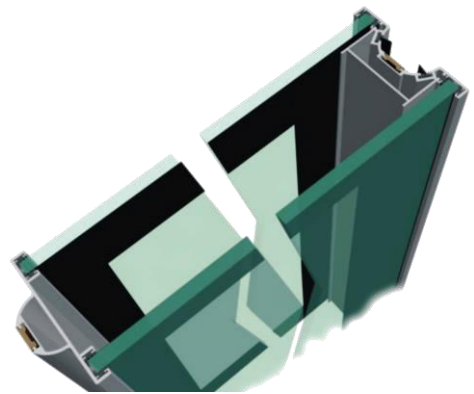
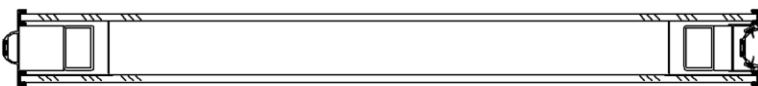
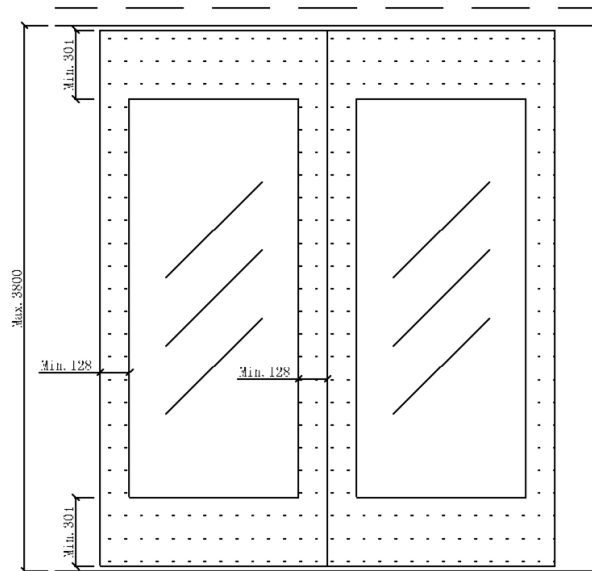
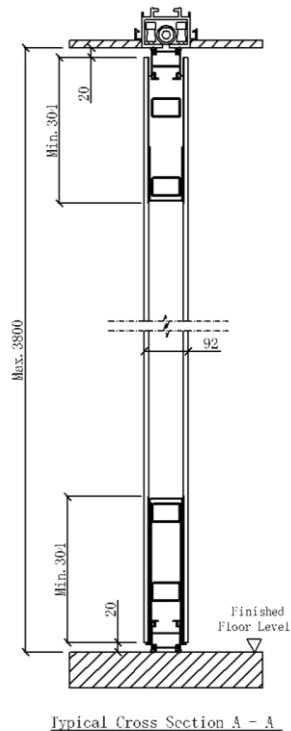
### L - Joint



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### Normal Panel - G100



Panels units shall be manually and individual operated. Each panel should be top supported by ball bearing swivel trolleys.

There shall be no track or guide in or on the floor. The entire panel shall be incombustible, moisture resistant and dimensionally stable, the panel support system shall include a fail-safe device which prevents locating or tracking out after the panels have been installed.

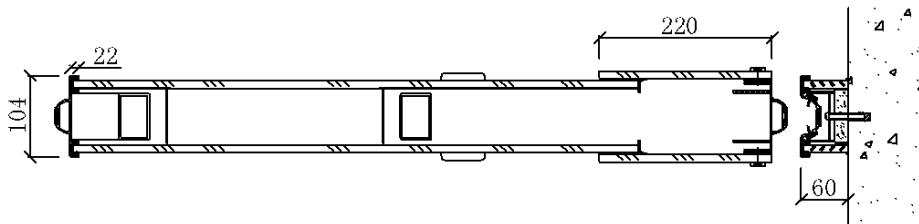
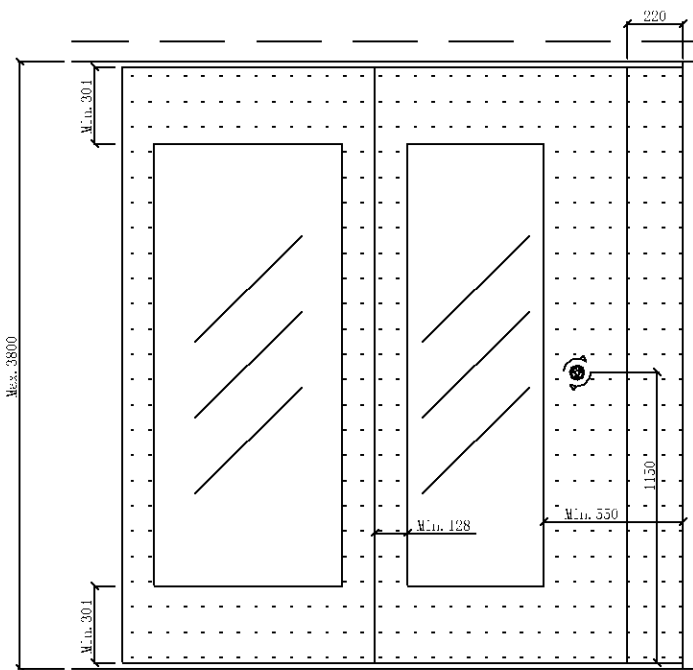
Each panel shall have vertical seals between panels and should consist of tongue and groove configuration with effective acoustic magnetic strip seals. Horizontal top and / or bottom seals shall be adjustable to cater to dimensional variation in height.

Individual floor seals on the bottom of each panel should provide 20mm minimum nominal operation clearance and should be manually crank operated from the edge of the panel. Downward seal pressure MUST ensure an acoustical seal and resist lateral panel movement satisfactory.

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### Telescopic End Panel - G100



In order to maintain the acoustic integrity and absorb the discrepancies of length dimension as well as vertical level on site, telescopic end panel is designed to permit extensions (gap fillers) in three directions. The outward pushing stroke of the ceiling and floor contact sections should be standardized at 20mm, and the telescopic section can be adjusted from 100mm to 120mm by means of internal mechanism extending / retracting sound seals.



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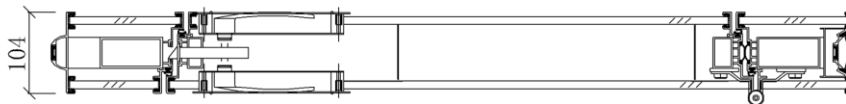
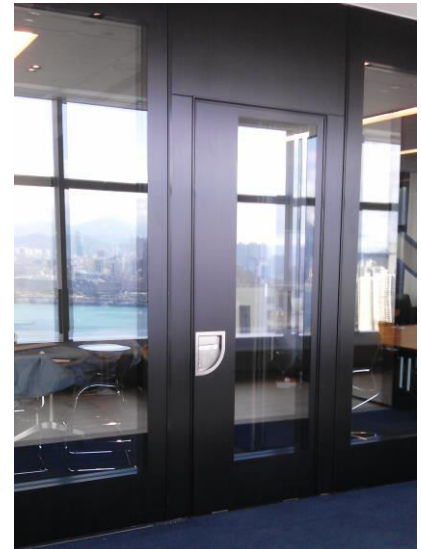
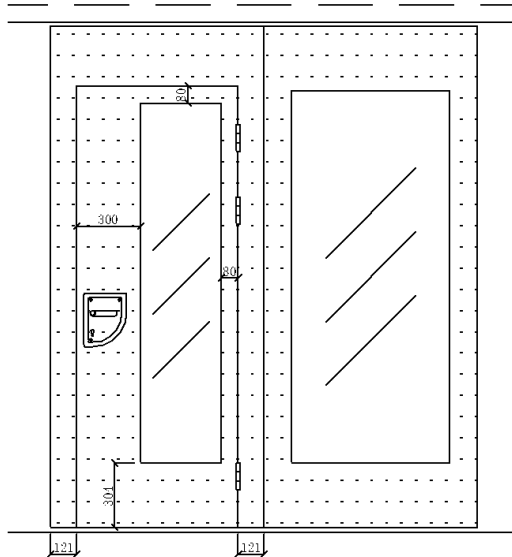
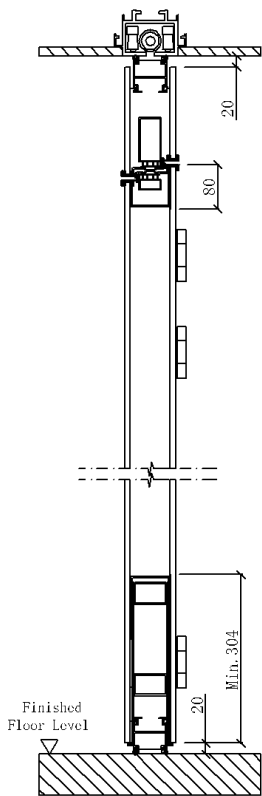
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### Panel With Single Passdoor

Upon the requirements of uniform design and beauty, fully double glazed single passdoor is provided by flexifold to fulfill this criterion.

It can resist impact forces as caused by opening, closing, pushing and stacking of elements.

The doors are equipped with heavy duty stainless steel hinges, handles, base plate and locking mechanism with master keys.



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### Acoustic Performance

The OPERABLE WALL shall have an **STC/SRI** rating from Laboratory Testing of **42 minimum** AND PROVIDE AND **STC / SRI 38 IN-PLACE** with noise control measurements taken at 1.25m from panel face at standing and sealed 'ear' level along the length of the wall, allowing from room effect.

In order to meet these noise criteria successfully normally requires that the panels be a minimum of **100mm thick**. Surface density shall be minimum **70kg/m<sup>2</sup>** (without surface finishing / treatment).

It shall be the responsibility of the Contractor to demonstrate (by carry out site acoustic tests) the noise control ability of the operable walls. The acoustics tests shall be witnessed by the Architect's or his designated Consultant.

The Contractor shall submit details of the proposed test method for the Architect's approval prior to conducting this test. Formal test report shall be issued to the Architect within two weeks after the acoustic test.



### Guarantee

The operable wall system shall be **GUARANTEED** in writing against defective workmanship and material for **FIVE YEARS** from date of completion. The form of guarantee should include the overhead carriage system (roller and aluminium / steel track) and panels which should further include all internal mechanisms as well as all ironmongeries.

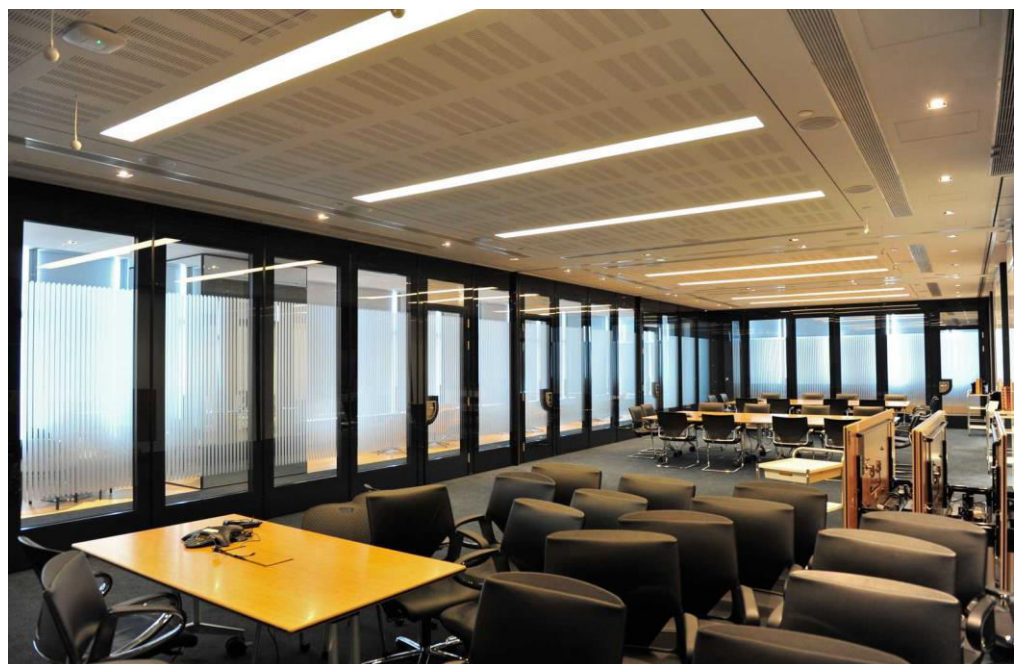
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### Semi-automatic Upgrade Option

Our double glazing glass partitions can be upgraded with our semi-automatic mechanism for ease of use. Semi-automatic partitions automatic extrude/rewind acoustic soundseals once it is placed in its designated location.

Flexifold proven technology makes its product vary from time to time under various research and development plans. The glass products are the most modern and latest design that comply with all enviromental needs.





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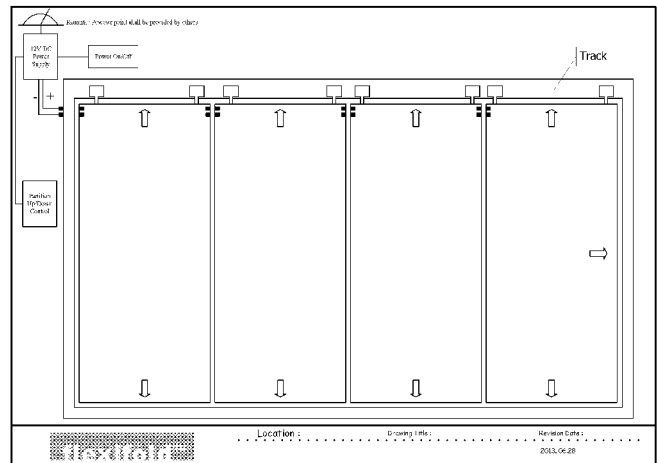
## FINISHES & MATERIAL SPECIFICATION SHEET

### Semi-Automatic Details



Fixed End Jamb with Sensor connect to power

Client just provide a 13Amp socket at the storage



#### Specification of Power Adaptor

Input Voltage:

- AC100 ~ 240V
- AC100V
- AC220V

Output Voltage:

- DC12V
- DC18V
- AC24V

Output Current:

- 3A
- 5A
- 10A
- 15A
- 20A
- 30A

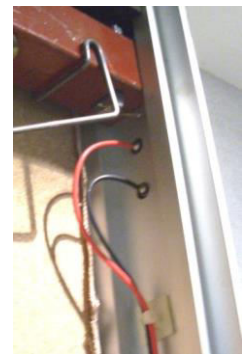
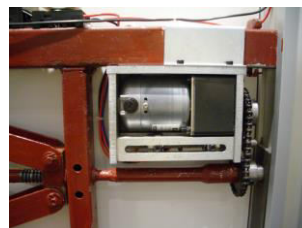
Fuse Type:

- PTC

Battery Capability

- YES
- NO

Each panel inside have a motor and gear box connect to the panel sensor.



Power Adaptor then connect to two wall mount switches, one switch is to turn on/off the adaptor and the other on is to turn

### FEATURES:

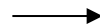
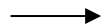
- 1/ Power is transmitted from panel to panel through specially designed electronic sensors.
- 2/ A single motor operates the spindle mechanism.
- 3/ The operable wall is moved manually, however, the top and bottom sound seal are extended and retracted automatically when turned on.

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### Auto-screen Glass Panel (ASG100)

The screen will be concealed inside the silk screen area when fully opened.



Remote & wall mount control

The screen can operate by either remote control or wall mount control panel.

Screen can open or close at the same time or can individual control each screen open or close depends on needed.

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**Item Description** Acoustic Double Glazing Operable Wall (Semi-auto) with **internal automatic screen** (wall mount & remote control)

### Dimensions :

|                         |             |
|-------------------------|-------------|
| Panel Thickness (Frame) | 104mm       |
| Panel Width             | Max. 1200mm |
| Panel Height            | Max. 4000mm |

**Panel Frame** Steel frame internal supporting with aluminium extrusion external frame.

Type Sealed composite heavy weight construction with acoustic core.

Installation Combination of positive and frictional locking, convex / concave aluminium profiles with quad-lip gaskets.

Frame Finish Natural anodized finish

**Track Types** Aluminium track with steel connection joints.

Surface finish is PVF II coating with standard white color.

**Glass** 10mm tempered glass on both sides of panel. (custom made)

Finishes Silk screen on the back. (glass type / color range on request)

Screen Frame Aluminium extrusion frame with natural anodized finish.

Screen Materials PU / Fabric

Designer screen fabric (U.K.)

(vary of fabric color range show on materials & color chat)

Clear passage height The height of clear opening of screen is from 2300 ~ 2500mm max. depends on the thickness of the fabric.

### Technical specifications

|  |                        |                    |
|--|------------------------|--------------------|
| Sound insulation to EN20140,<br>laboratory value | <b>dB in Rw*</b><br>42 | <b>kg/m²</b><br>80 |
|--|------------------------|--------------------|

### Power Consumption

|                   |         |
|-------------------|---------|
| Operating voltage | 12VDC   |
| Input             | 220VAC  |
| Frequency         | 50~60Hz |
| Output            | 12VDC   |

**Screen Control Sy:** By remote control & wall mount control panel

Both control panel can operate max. 15 door's screen to open and close at the same time or individual open or close the screen.