



PROJECT		MODEL	F100HD SOLID	DATE	PAGE
LOCATION		TYPE	MANUAL	1-Jun-14	1/7

## FINISHES & MATERIAL SPECIFICATION SHEET

Item Description	Acoustic Operable Wall System	 
Model Type	'flexifold' type F100HD Solid Manual (For panel height 4.5M. or above)	
Dimensions	Standard panel thickness - 100mm nominal 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	A large selection of finishes, ranging from wood, fabrics to steel, with glass window inserts are available.	
Panels Size	Each panel shall be of height (Max. 15 M.) 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, 5 Kin Fat Street, Tuen Mun, N.T., HK	
Contact	Tel : 852 2448 1807 Fax : 852 2448 0473 email : info@flexifoldhk.com Web Site : www.flexifoldhk.com	

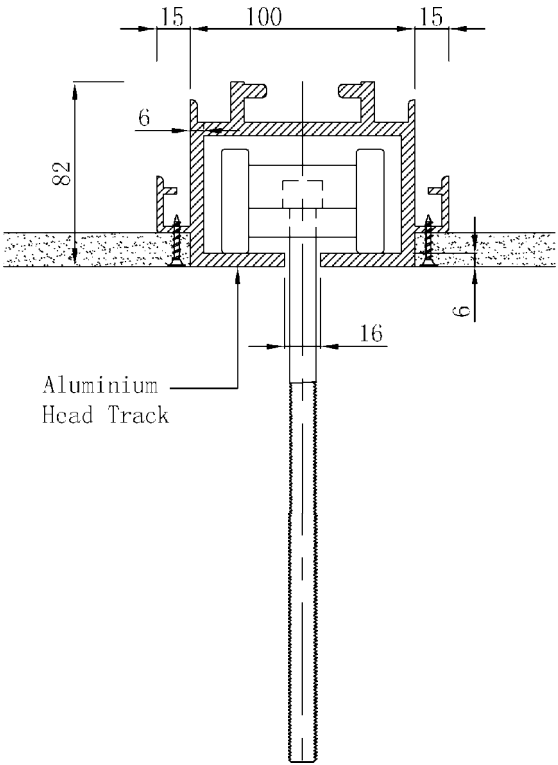
PROJECT		MODEL	F100HD SOLID	DATE	PAGE
LOCATION		TYPE	MD TRACK SYSTEM	1-Jun-14	2/7

### FINISHES & MATERIAL SPECIFICATION SHEET

**Track System - Type 'MD' (For panel height 4.5M to 6M)**

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

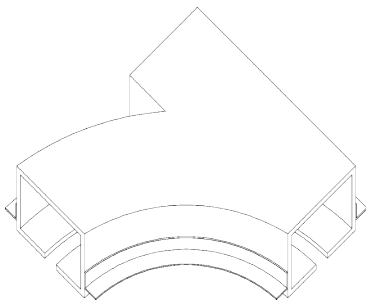
It is of paramount importance that the sound baffle wall surrounding the track and above the operable wall panels be properly sealed and constructed to prevent flanking transmission of noise. It shall be the responsibility of the Contractor supplying and installing these operable walls to provide details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



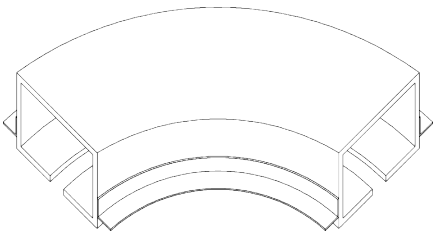
### Carriage System Materials and Specifications Table

Model Type	Name	Materials & Model No.	Load Computation (Unit)	Remarks
MD-Track System (Partition Height From 4.5 to 6 meters)	Aluminium Track	6mm Thick Aluminium Extrusion (6063-T6)	65MPa	Surface finishing is standard white powder coated.
	Type MD Connection Joint	6mm Thick Construction Steel	270MPa	Surface finishing is standard white powder
	Type MD Multi-Directional Roller	φ40mm Steel Bearing (Model No. : 6203)	9.6kN (Load Ratings Dynamic)	Each roller contain 2 steel bearings
			4.6kN (Load Ratings Static)	
Roller Hanger Rod	M12 High Tensile Hanger Rod	350MPa	Two Points Suspension	

T- Joint



L - Joint



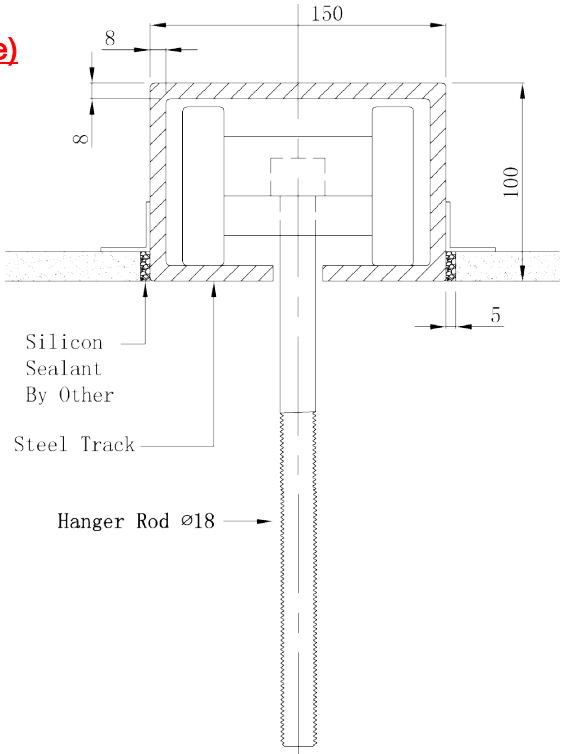
PROJECT		MODEL	F100HD SOLID	DATE	PAGE
LOCATION		TYPE	HD STEEL TRACK	1-Jun-14	3/7

### FINISHES & MATERIAL SPECIFICATION SHEET

**Track System - Type 'HD' (For panel height above 6M or above)**

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

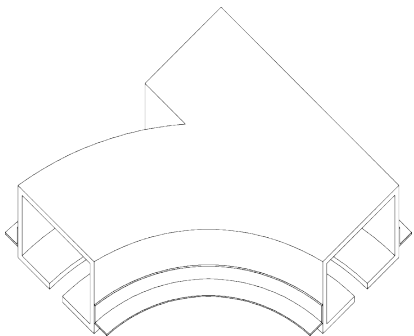
It is of paramount importance that the sound baffle wall surrounding the track and above the operable wall panels be properly sealed and constructed to prevent flanking transmission of noise. It shall be the responsibility of the Contractor supplying and installing these operable walls to provide details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



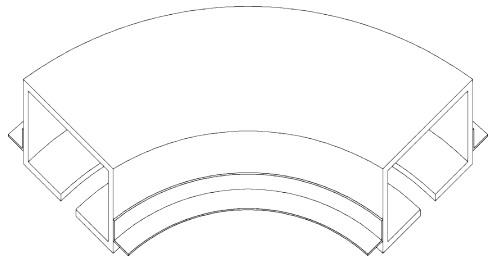
### Carriage System Materials and Specifications Table

Model Type	Name	Materials & Model No.	Load Computation (Unit)	Remarks
HD-Track System (Partition Height From 6 to 15 meters)	Steel Track	8mm Thick Construction Steel	370MPa	Surface finishing is standard white powder
	TypeHD Connection Joint	8mm Thick Construction Steel	370MPa	Surface finishing is standard white powder
	Type HD Multi-Directional Roller	φ80mm Steel Bearing (Model No. : 6405)	34.5kN (Load Ratings Dynamic) 17.5kN (Load Ratings Static)	Each roller contain 2 steel bearings
	Roller Hanger Rod	M18 High Tensile Hanger Rod	660MPa	Two Points Suspension

**T- Joint**



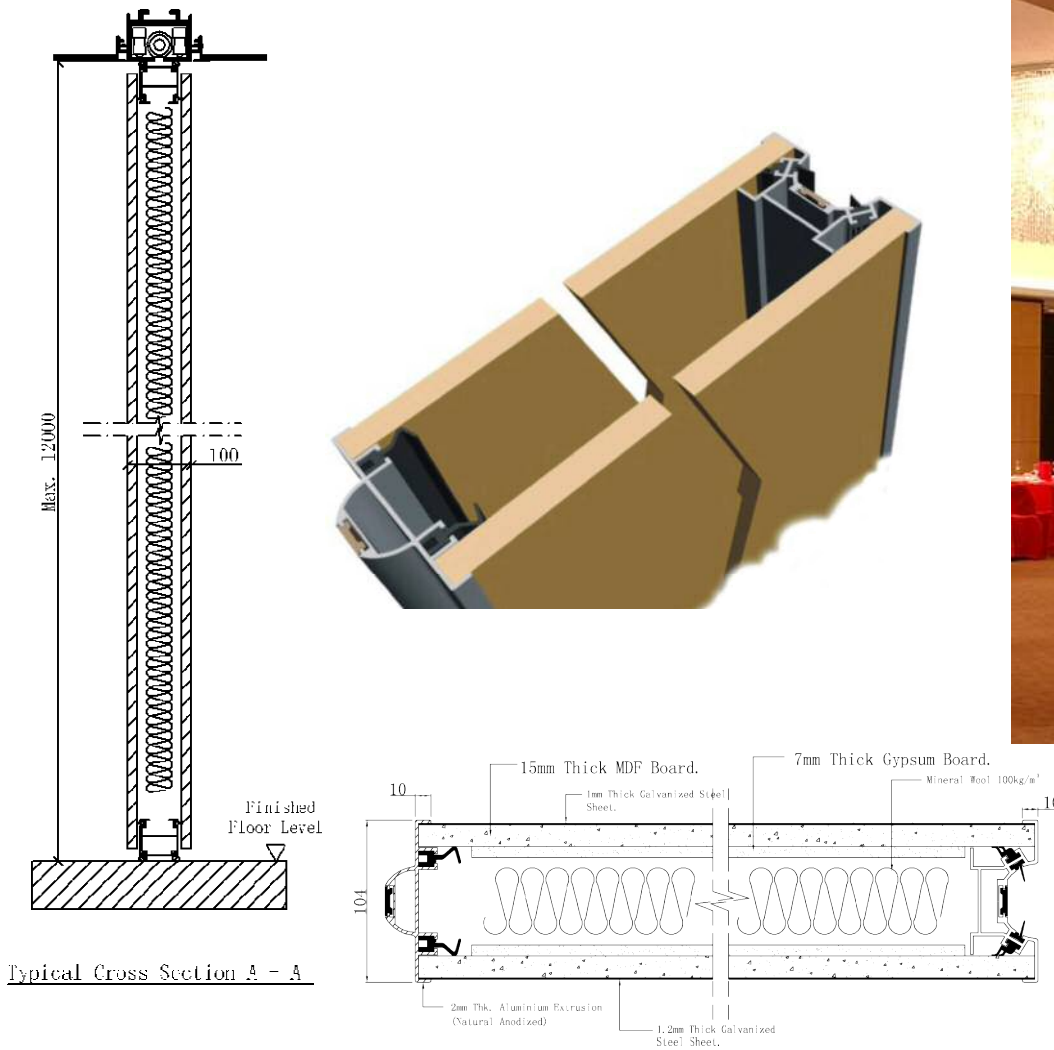
**L - Joint**



PROJECT		MODEL	F100HD SOLID	DATE	PAGE
LOCATION		TYPE	MANUAL	1-Jun-14	4/7

## FINISHES & MATERIAL SPECIFICATION SHEET

### Normal Panel - F100HD Solid Manual



Normal Panel Profile - Detail 'C' Plan

Panels units shall be Flexifold Type F100HD model, 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 be installed.

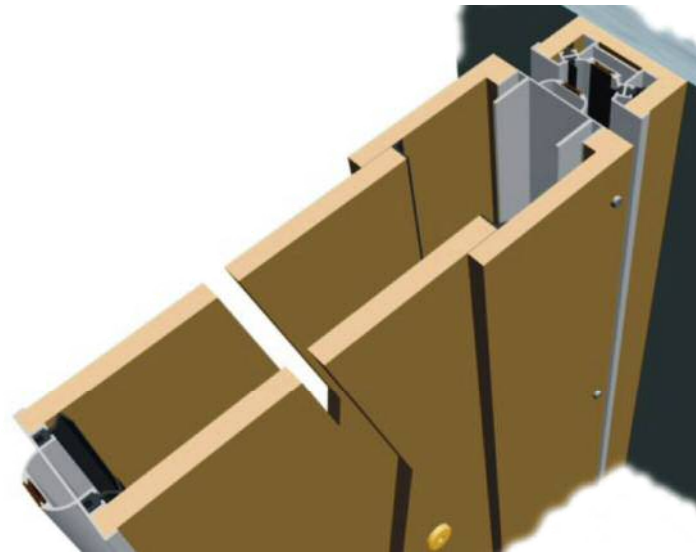
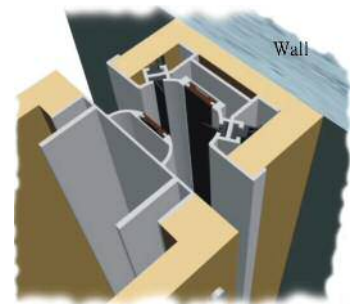
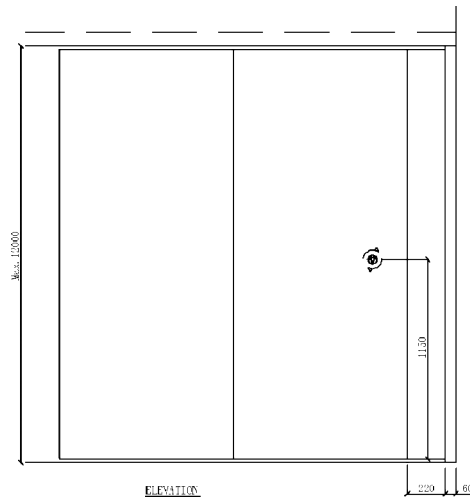
Each panel shall have vertical seals between panels and should consist of tongue and groove configuration with effective acoustic magnetic strip seals. Horizontal top and / or bottom seals shall be adjustable to cater to dimensional variation in height.

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.

PROJECT		MODEL	F100HD SOLID	DATE	PAGE
LOCATION		TYPE	MANUAL	1-Jun-14	5/7

## FINISHES & MATERIAL SPECIFICATION SHEET

### Telescopic End Panel - F100HD Solid Manual



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 250mm to 270mm by means of internal mechanism extending / retracting sound seals.

PROJECT		MODEL	F100HD SOLID	DATE	PAGE
LOCATION		TYPE	MANUAL	1-Jun-14	6/7

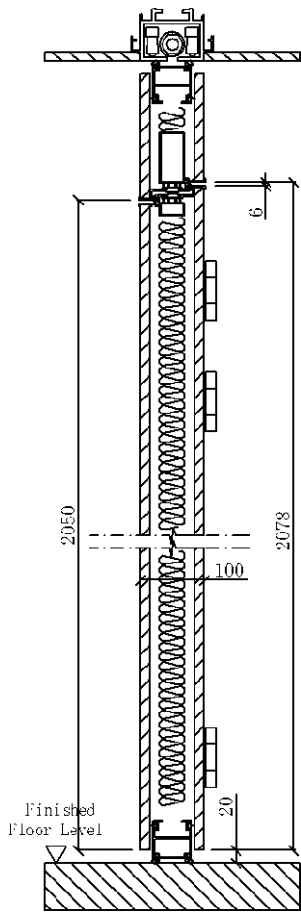
## FINISHES & MATERIAL SPECIFICATION SHEET

### Panel With Single Passdoor - F100HD Solid Manual

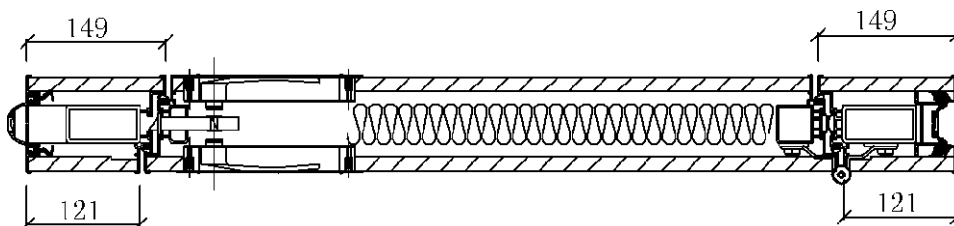
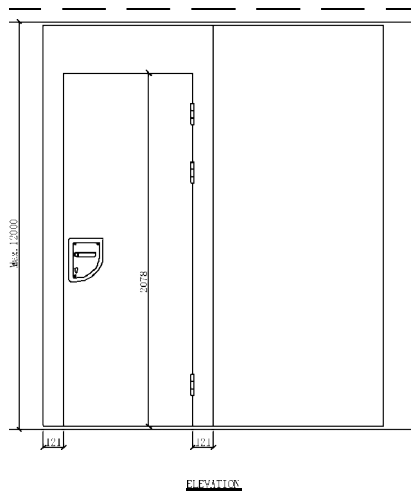
Upon the requirements of uniform design and beauty, single passdoor or double passdoor are provided by flexifold to fulfill this criterion.

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.



Typical Cross Section A A



Passdoor B - B

PROJECT		MODEL	F100HD SOLID	DATE	PAGE
LOCATION		TYPE	MANUAL	1-Jun-14	7/7

## FINISHES & MATERIAL SPECIFICATION SHEET

### Acoustic Performance

The OPERABLE WALL shall have an STC/SRI rating from **Laboratory Testing of 51 ~ 53** AND PROVIDE AND **STC / SRI 42 ~ 45 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).

Each panel constructed of torsion-free aluminium/steel frame, cladding with **15mm thick MDF board** covered with galvanized steel sheet gauge 20 + 7mm thick gypsum board back up to both sides.

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.