

Table of Measurements							
#	Room/Area	Perimeter [m, ft]	Area [sq.m, sq.ft]	Volume [cb.m, cb.ft]	IDU Size [BTU]	Qty	Total
1	Meeting Room	18.9	20.5	59.5	12000	1	12000
		62.4	221.4	2103.3			
2	Library	11.5	8	23.2	9000	1	9000
		38.0	86.4	820.8			
3	Pantry	15.6	11.5	33.4	12000	1	12000
		51.5	124.2	1179.9			
4	Prayer Room	9.5	5.5	16.0	9000	1	9000
		31.4	59.4	564.3			
5	Common Area	84.5	160	464.0	36000	3	108000
		278.9	1728.0	16416.0			
6	TOTAL	140.0	205.5	595.9			
		462.0	2219.4	21084.3			150000

Construction and Finishing Instructions for Duct Works

Framework

Material: Pinewood
 Treatment: Anti-Termite Treatment
 Varnish: Anti-Fungal Varnish
 Varnish Color: Any

Duct

Material: Gypsum Board, 6mm
 Paint: Semi Gloss, Anti Bacterial, Anti Fungal Paint, on BOTH faces of panel
 Paint color: Light Gray (To be approved by URA)
 Access Points: 8" x 8" (minimum), at locations marked in the drawing

Notes:

- All items must be approved by URA before procurement
- Proponent shall visit the site and inspect before submitting their bid
- If there are any indication of fungus, mould, algae or mildew, a fungicidal treatment shall be applied on the area of the duct and 1 meter from the duct area towards each direction
- Treatments and varnish for framework shall be applied BEFORE installation.
- Contractor shall provide MCB with rating recommended by manufacturer for connection to the 2nd floor energy meter

Specifications for Indoor Units

- * Mounting: Ceiling Mount
- * Airways: 360 degree 4 way
- * Drain: As shown to the nearest void
- * Control: Wireless Remote & Central Controller
- * Indication Lights: Yes
- * Temperature Display: Yes
- * Capacity: As shown in Table of Measurements

Specifications for Outdoor Unit

- * Mounting: Floor Mount
- * Airflow: Top Flow
- * Capacity: Minimum 150,000 BTU
- * Voltage: 400V 3Phase
- * Cooling Capacity: 56.0 kW
- * Approximate Dimensions: Must fit room specified in the drawing
- * Exhaust Air discharge: via Duct

Specifications of Central Controller

- * CAT6 cables from each IDU to ODU and Central Controller
- * Weekly Schedule
- * Must have ability to control ALL IDU

Service and Warranty

Duration

Replacement Warranty: 2 Years
 Service Warranty: 1 Year

Parts availability

24-hours

Service Frequency

Indoor unit filter cleaning: 1 Month
 Indoor unit servicing (wash, drain pump check, and drain pipe flush): 3 Months
 Outdoor Unit servicing: 6 Months

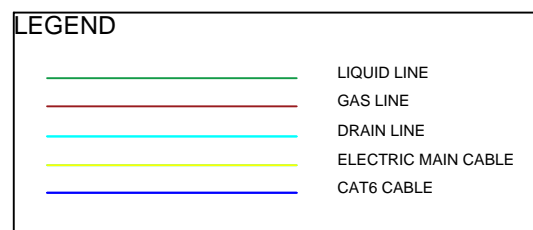
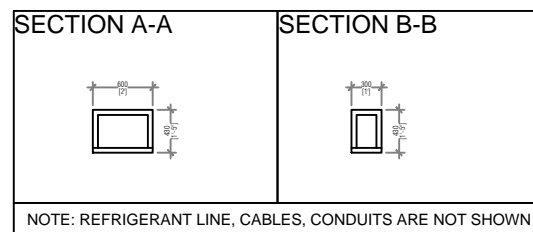


Table B: Table of Measurements for Partitions

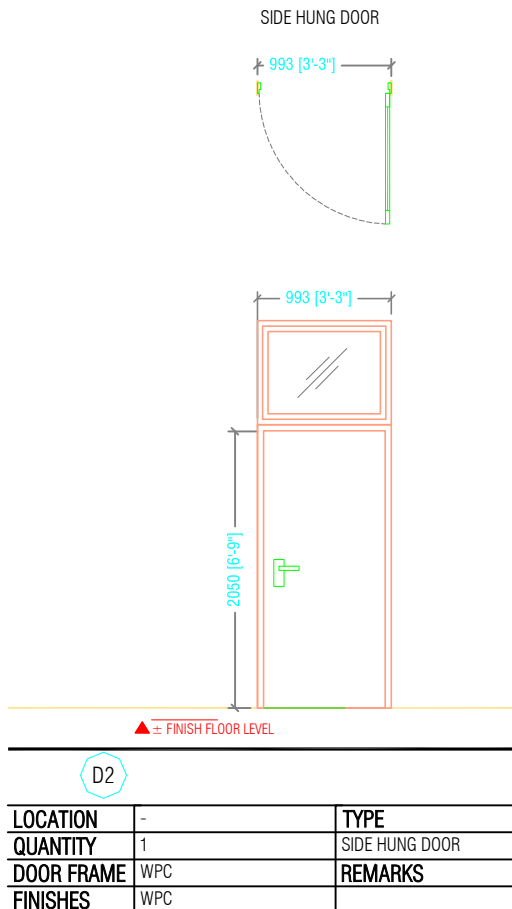
#	Room/Area	Partition Length [m, ft]	Type	Door
1	VRF	3	6 mm Cement Board + Aluminum Frame + 200 mm Mineral Wool Insulation + Painting	1 x D1
		9.9		
	TOTAL	3.0		
		9.9		

Framework and Partition Details:

- * Frame should be made using powder-coated/painted aluminum box channel
- * Screws/Bolts should not be used to mount the frame to the floor.
- * Industrial strength (Liquid Nails, Polyurethane foam or similar) adhesive shall be used for floor mounting

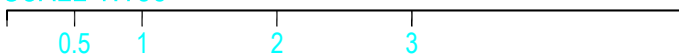
Finishing and Painting Details:

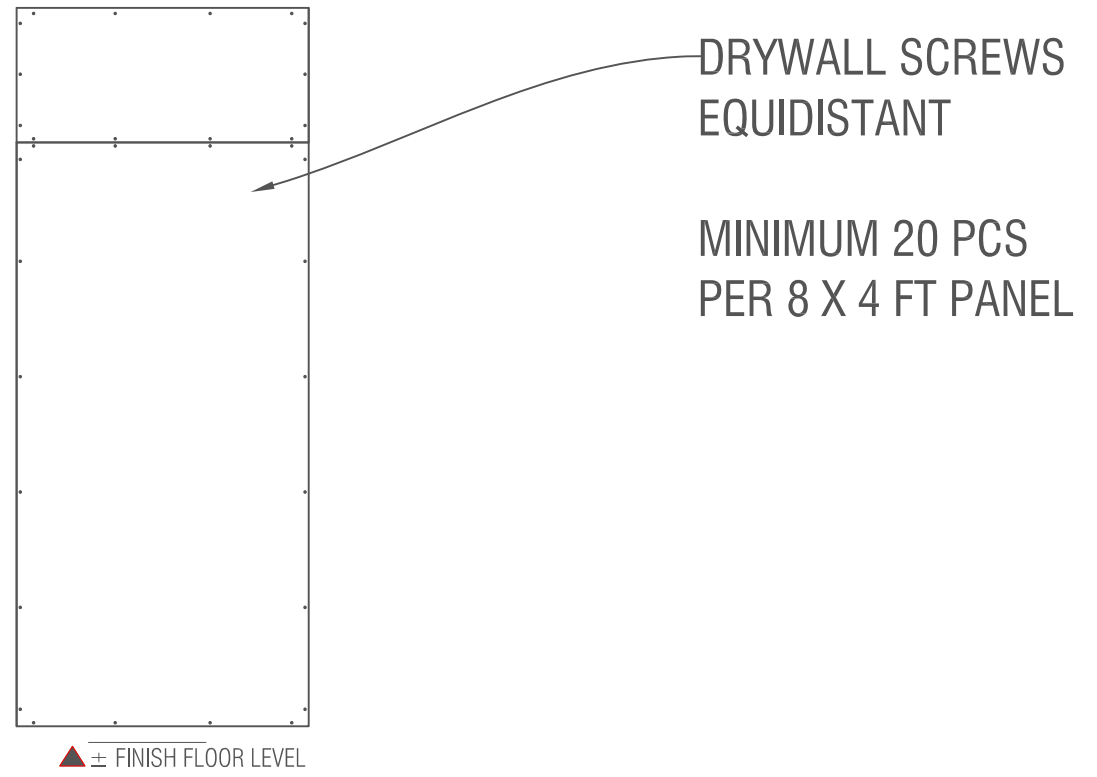
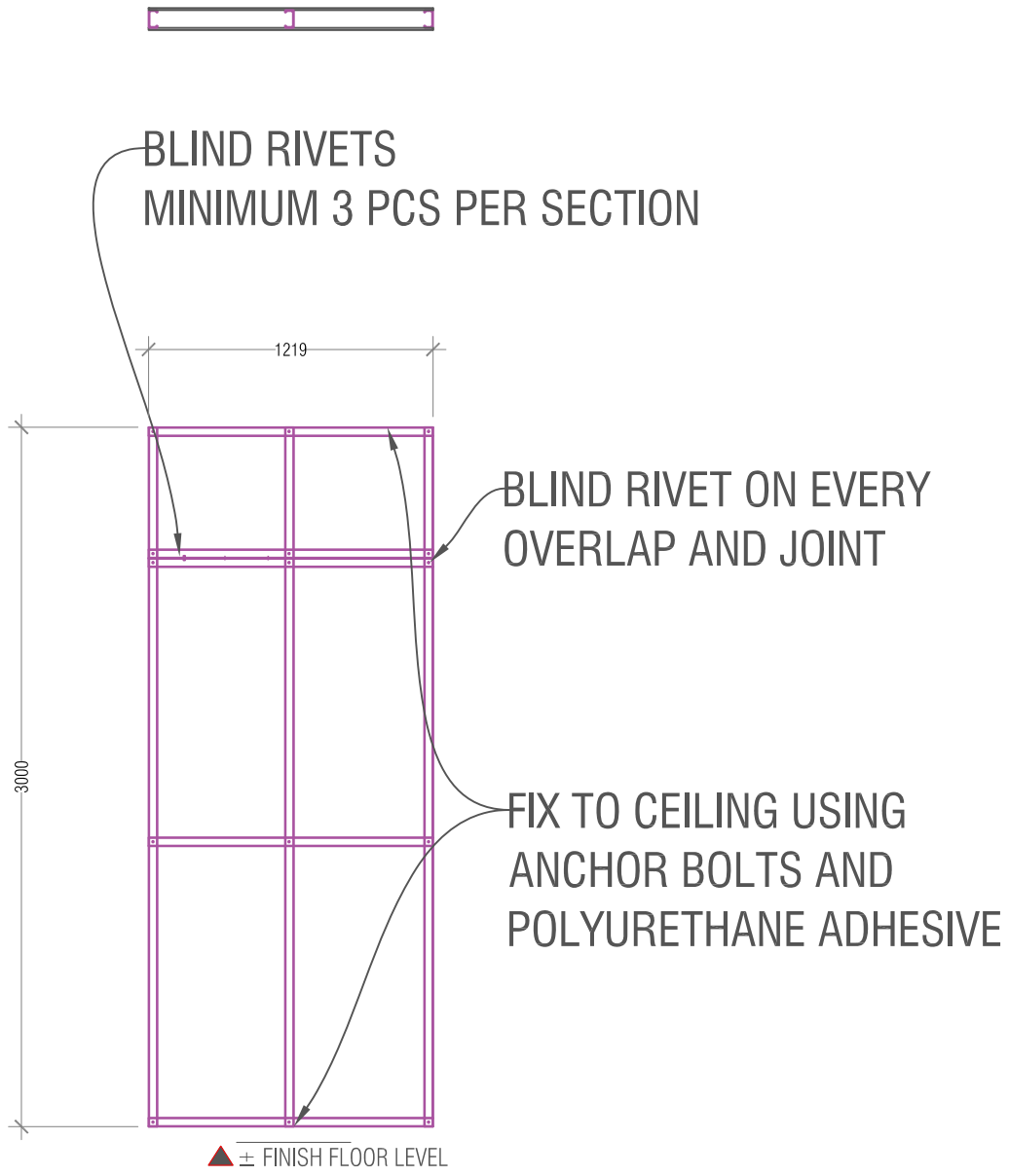
- * Surface should be leveled using joint sealer
- * All joints shall be covered by fiberglass mesh tape
- * Waterproofing chemical shall be used on the road-side wall of the partition
- * 1 Coat of Paint sealer shall be applied
- * 2 Coats of Anti-Fungal, Anti-Bacterial Light Gray paint shall be applied



Door Schedule

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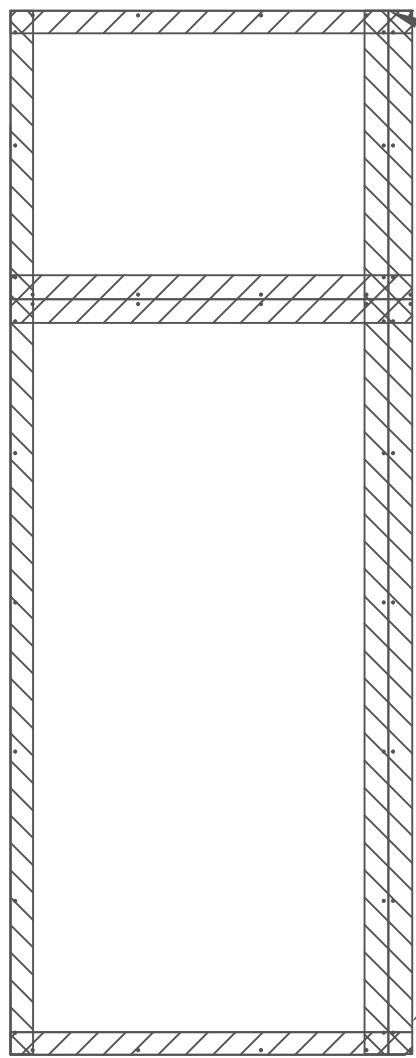




Partition and Frame Detail

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ALL JOINTS TO BE SEALED WITH
DRYWALL TAPE OR FIBER
MESH, AND JOINT COMPOUND

PANEL:
9MM GYPSUM BOARD OR SIMILAR

INSULATION:
FIBERGLASS INSULATION OR SIMILAR
75MM TOTAL THICKNESS OR PROFILE WIDTH

FINISHING DETAILS:

LAYER 1: WALL PUTTY/JOINT COMPOUND APPLIED AND SANDED

LAYER 2: WALL SEALER

LAYER 3: ANTI-BACTERIAL, ANTI-FUNGAL, SEMI-GLOSS, PURE WHITE
PAINT

LAYER 4: ANTI-BACTERIAL, ANTI-FUNGAL, SEMI-GLOSS, PURE WHITE
PAINT

Partition Finishing Details

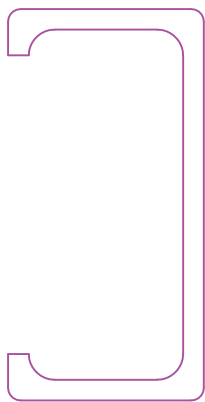
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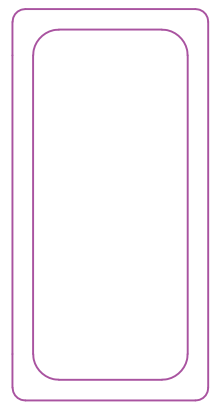
Primary Option

Alternative Option

VERTICAL CHANNELS

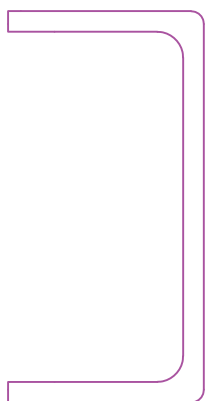


C CHANNEL

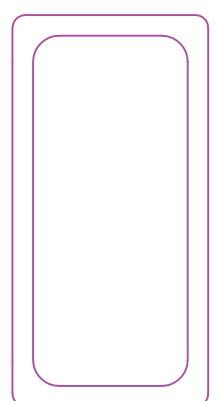


BOX CHANNEL

HORIZONTAL CHANNELS



U CHANNEL



BOX CHANNEL

Aluminum Profiles

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