

BURGLAR & FIRE RESISTANT VAULT DOOR



RATED

SECURITY

EQUIPMENT



Certificate No: 403522

MOEM MH-Series Vault Door



MH-Series Vault Door is the result of the extensive research & development which has become the hallmark of MOEM. MH-Series Vault Door is designed in accordance with rigid international standards and test specifications to fulfill the stipulations of international banking and commerce executive. Consideration has been taken with the most up-to-date sophisticated *burglar attacks & Fire resistance*. MOEM Vault-Door features door protective thickness from 25mm to 115mm. Hence, MOEM offers a series of Vault Doors catered to meet specific requirement.

SPECIFICATIONS

Door & Protection

MH-Series Vault Door (MH 50, 65, 90,115) comprise of MOEM special formulated thermo-alloy MT Metal-Mix barrier material encased between heavy steel pressed door. MT Metal-Mix barrier material is reinforced with anti-penetration bars and hardened chips. MH-Series Vault Door is designed to resist physical assaults such as high speed drilling, oxy-acetylene attacks, explosives, hydraulic jacks as well as other mechanical tools.

Additional security has been achieved by incorporating defensive MOEM MST hardened steel alloy to secure the vital parts of the locking mechanism. MH-Series Vault Door uses a live and dead relocking device that will automatically activate and seize all bolts in the event of forcible attacks are made, especially by explosive charges and mechanical tools. The live relocking device is designed for parallel protection securing locking mechanism, while the dead relocking device is independent of the locks.



Bolt Work

MH-Series Vault Door is secured by *heavy duty solid full length running bolts* measuring 38mm in diameter.

MH 25 & MH 50 is secured by 8 heavy duty running bolts and full length interlocking rebate. MH 65, MH 90 & MH 115 is secured by 16 heavy duty 2 ways running bolts.

MH-Series Vault Door also incorporates the impressive *Gyro-gearing mechanism* to provide light, smooth bolt movement and allows maximum throwing of the bolts into the cup-formed reinforced section. This system ensures the door will remain shut in the event of the *heavy duty hinges* being cut off and also in the event of hydraulic jack attack.



Locking

MH-Series Vault Door standard locking-system is secured by a three wheel keyless combination lock (1,000,000 variations) and a 7-lever key lock (Vds/UL Listed).



MOEM MH-Series Vault Door



Finishes

MH-Series Vault Door is available in high quality painted finish and also available in stainless steel finish to accommodate user requirement.

OPTIONAL ACCESSORIES

Grille Gate

Vault Door can be fitted with grille gate to allow for ventilation of the vault during the day (during operation). Grille gate is secured by two mortice locks.



Emergency Door & Breathing Tube

Emergency door is an optional solution for emergency exit of vault with such a requirement. Meanwhile, in the event that personnel being trapped inside the vault, emergency breathing tube provide fresh air, passing of water and food and two way communications.



Time Lock <

OPTIONAL FITTINGS

- Microswitch alarm
- Time Lock
- LG Navigator

- Digital Combination Lock
- 4 Wheel Combination Lock



< LG Navigator

Digital Combination Lock <



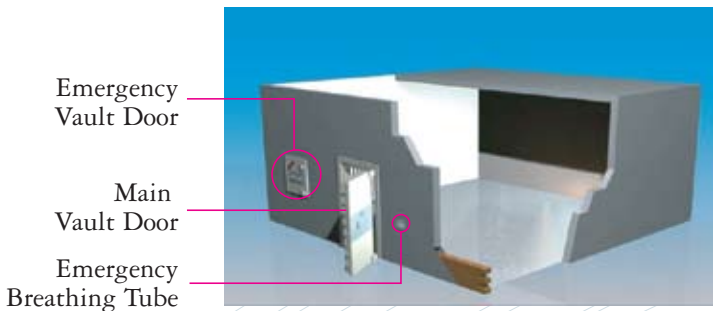
MH-Series Vault Door Schedule

Model	Protective Thickness	Protective Material	Bolt Work System & Fittings	Recommended Wall Thickness	Packing Size (Crating)	Gross Weight (KGS)
MH-25	25mm	Solid Steel	8 nos/full length vertical rebate	6" - 9"	29" H x 51" D x 90" W	800 kgs
MH-50	50mm	Composite	8 nos/full length vertical rebate	6" - 9"	29" H x 51" D x 89" W	750 kgs
MH-65	65mm	Composite	2 way full length 16 bolts	9" - 12"	29" H x 51" D x 90" W	900 kgs
MH-90	90mm	Composite	2 way full length 16 bolts	9" - 12"	29" H x 51" D x 90" W	1200 kgs
MH-115	115mm	Composite	2 way full length 16 bolts	9" - 12"	30" H x 62" D x 90" W	1300 kgs
Emergency Door	70mm	Composite	3 way - 6 nos running bolts	6" - 12"	26" H x 34" D x 42" W	300 kgs

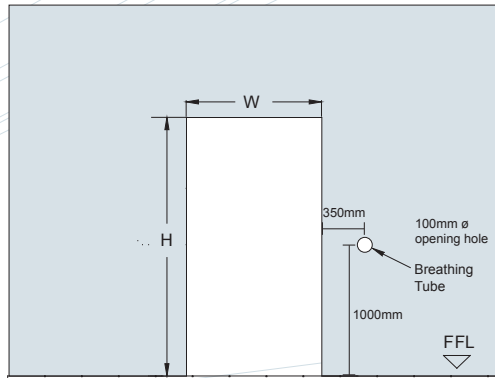
Upon confirmation of order, please specify:

- Type of Hung (Right/left)
- Wall Thickness
- Floor level (if crane required)

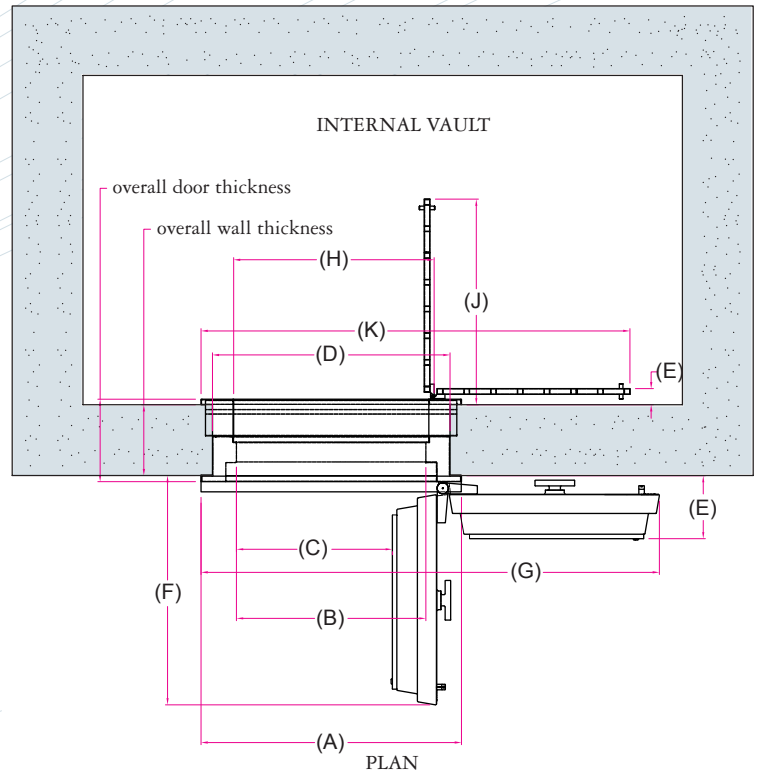
MOEM MH-Series Vault Door



CROSS-SECTION OF VAULT



FRONT VIEW (CLEAR-OPENING)



(TYPICAL DIMENSION FOR INSTALLATION OF VAULT DOOR)

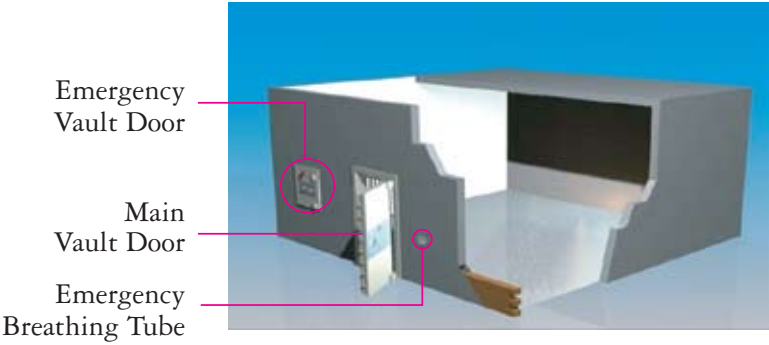
Technical specifications for installation of MH 50 & MH 65

Ref	Description	MH 50		MH65	
		Dim (mm)	Dim (inches)	Dim (mm)	Dim (inches)
A	Overall Door Frame	W1160 x H2032	W46" x H80"	W1160 x H2130	W46" x H84"
B	Clear Opening at 180°	W860 x H1862	W34" x H73"	W850 x H1950	W33.5" x H77"
C	Clear Opening at 90°	W735 x H1862	W29" x H73"	W735 x H1950	W29" x H77"
D	Clear Opening for installation	W1060 x H1982	W42" x H78"	W1060 x H2095	W42" x H82"
E	Projection of Door at 180°	200mm	8"	240mm	9.5"
F	Projection of Door at 90°	1000mm	39"	1010mm	40.5"
G	Overall width of Door at 180°	2055mm	81"	2055mm	81"
H	Overall width of gate	850mm	33.5"	850mm	33.5"
I	Projection of Gate at 180°	73mm	2.9"	73mm	2.9"
J	Projection of Gate at 90°	930mm	36.6"	930mm	36.6"
K	Projection of Door at 180°	1900mm	75"	1900mm	75"

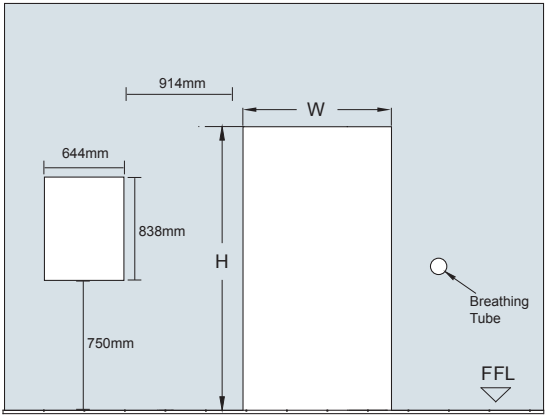
Technical specifications for installation of MH 90 & MH 115 Series

Ref	Description	MH 90		MHS 90		MH 115		MHS 115	
		Painted		Stainless Steel		Painted		Stainless Steel	
		Dim (mm)	Dim (inches)	Dim (mm)	Dim (inches)	Dim (mm)	Dim (inches)	Dim (mm)	Dim (inches)
A	Overall Door Frame	W1168 x H2123	W46" x H83.5"	W1171 x H2126	W46" x H83.7"	W1168 x H2123	W46" x H83.5"	W1400 x H2126	W55" x H83.7"
B	Clear Opening at 180°	W850 x H1955	W33.5" x H77"	W842 x H1952	W33" x H77"	W850 x H1955	W33.5" x H77"	W907 x H1952	W35.7" x H77"
C	Clear Opening at 90°	W699 x H1955	W27.5" x H77"	W607 x H1952	W23.8" x H77"	W674 x H1955	W26.5" x H77"	W618 x H1952	W24.3" x H77"
D	Clear Opening for installation	W1118 x H2095	W44" x H82.5"	W1066 x H2071	W42" x H81.5"	W1118 x H2095	W44" x H82.5"	W1121 x H2071	W44" x H81.5"
E	Projection of Door at 180°	283mm	11.2"	304mm	12"	308mm	12"	337mm	13.3"
F	Projection of Door at 90°	1028mm	40.5"	955mm	37.6"	1027mm	40.5"	1000mm	39.4"
G	Overall width of Door at 180°	2057mm	81"	1898mm	74.7"	2057mm	81"	2064mm	81.3"
H	Overall width of gate	876mm	34.5"	876mm	34.5"	876mm	34.5"	935mm	36.8"
I	Projection of Gate at 180°	73mm	2.9"	73mm	2.9"	73mm	2.9"	73mm	2.9"
J	Projection of Gate at 90°	922mm	36.3"	922mm	36.3"	922mm	36.3"	980mm	38.6"
K	Projection of Door at 180°	1922mm	75.7"	1922mm	75.7"	1922mm	75.7"	2129mm	83.8"

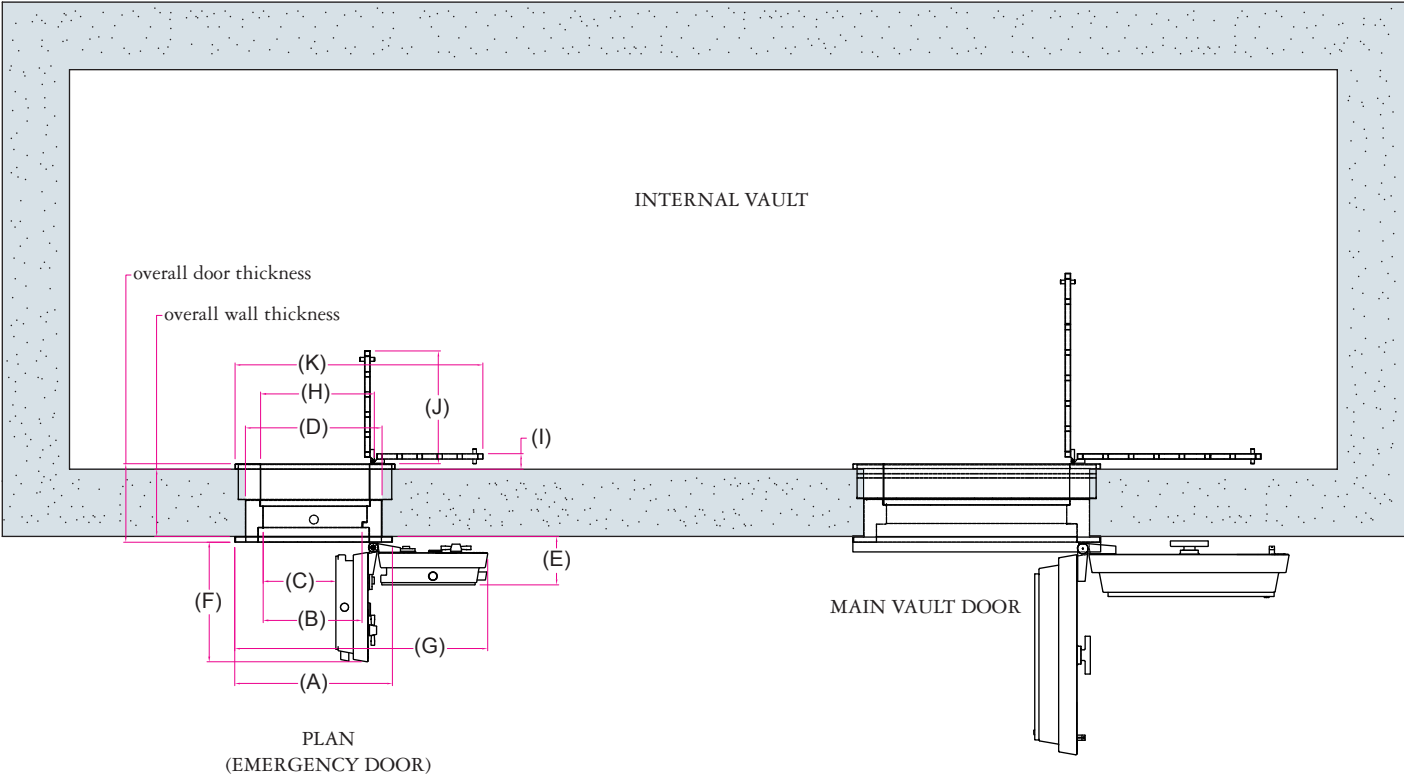
MOEM EMERGENCY DOOR



CROSS-SECTION OF VAULT



FRONT VIEW (CLEAR-OPENING)



Technical specifications for installation of Emergency Door

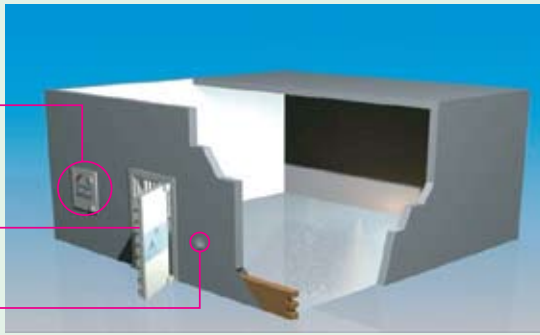
Ref	Description	Dimension	
		MM	Inches
A	Overall Door Frame	W744mm x H900mm	W29" x H35"
B	Clear Opening at 180°	W466mm x H754mm	W18.3" x H30"
C	Clear Opening at 90°	W343mm x H754mm	W13.5" x H30"
D	Clear Opening for installation	W644mm x H838mm	W25.4" x H33"
E	Projection of Door at 180°	228mm	9"
F	Projection of Door at 90°	591mm	23"
G	Overall width of Door at 180°	1192mm	47"
H	Overall width of gate	513mm	20"
I	Projection of Gate at 180°	73mm	2.9"
J	Projection of Gate at 90°	557mm	22"
K	Projection of Door at 180°	1169mm	46"

MOEM EMERGENCY BREATHING TUBE

Emergency
Vault Door

Main
Vault Door

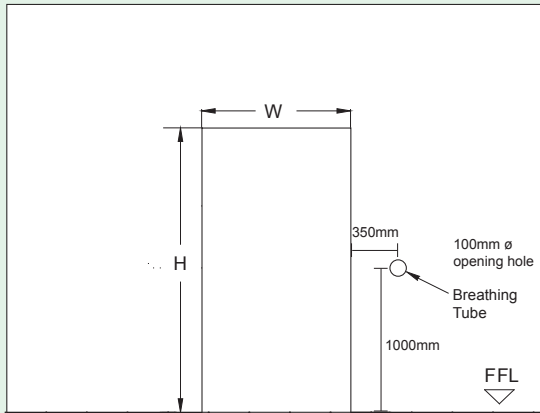
Emergency
Breathing Tube



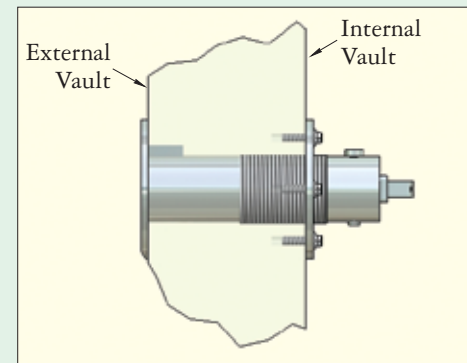
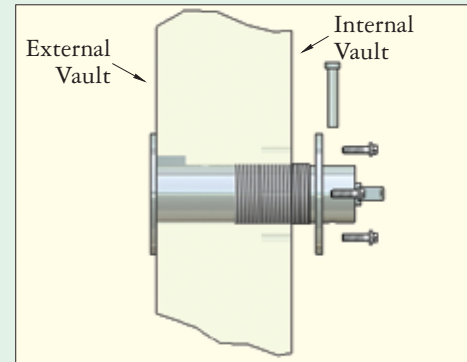
CROSS-SECTION OF VAULT



EMERGENCY BREATHING TUBE



FRONT VIEW (CLEAR-OPENING)



Specifications: Emergency Breathing Tube

- Wall thickness 6" to 9", 9" to 12"
- Chrome finish



MOEM HOLDINGS SDN. BHD.

(17369-K)

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