

WALL OPENING FRONT DOOR ELEVATION
 F.F.L. - Finish Floor Level
 C.F.L. - Concrete Floor level

DRAWINGS NOT TO SCALE

Door Description	UL 608 Class 1 Door		UL 608 Class 2 Door		UL 608 Class 3 Door	
	mm	ins	mm	ins	mm	ins
Door Specifications						
A Over Door Frame	1346	53	1346	53	1346	53
B Overall width of door and frame when door is fully open	2134	84	2134	84	2134	84
C Clear opening. Door open at 90°	585	23 ¹ / ₃₂	585	23 ¹ / ₃₂	585	23 ¹ / ₃₂
D Projection of door open at 90°	1019	40 ¹ / ₈	1019	40 ¹ / ₈	1019	40 ¹ / ₈
E Over gate frame	1229	48 ³ / ₈	1229	48 ³ / ₈	1229	48 ³ / ₈
F Wall opening	1100	43 ⁵ / ₁₆	1100	43 ⁵ / ₁₆	1100	43 ⁵ / ₁₆
G Overall width of gate when gate is open at 180°	1930	76	1930	76	1930	76
H Projection of gate open at 90°	940	37	940	37	940	37
I Gate opening	962	37 ⁷ / ₈	962	37 ⁷ / ₈	962	37 ⁷ / ₈
J Clear opening of door	835	32 ⁷ / ₈	835	32 ⁷ / ₈	835	32 ⁷ / ₈
Wall Opening						
K Masonry opening - Height	2134	84	2134	84	2134	84
L Masonry opening - Width	1100	43 ⁵ / ₁₆	1100	43 ⁵ / ₁₆	1100	43 ⁵ / ₁₆
M Height till cavity to suit breathing tube (bottom)	1219	48	1219	48	1219	48
N Height of cavity to suit breathing tube	280	11	280	11	280	11
O Width of cavity to suit breathing tube	127	5	127	5	127	5
P Difference b/w C.F.L. and F.F.L.	25	1	25	1	25	1
Front Door Elevation						
Q Over door frame-height	2121	83 ¹ / ₂	2121	83 ¹ / ₂	2121	83 ¹ / ₂
R Over door frame-width	1346	53	1346	53	1346	53
Clear opening :	75 ³ / ₄ " (1924mm) H x 32 ⁷ / ₈ " (835mm) W		75 ³ / ₄ " (1924mm) H x 32 ⁷ / ₈ " (835mm) W		75 ³ / ₄ " (1924mm) H x 32 ⁷ / ₈ " (835mm) W	
Shipping Particulars						
Case height	724	28 ¹ / ₂	724	28 ¹ / ₂	762	30
Case width	2286	90	2286	90	2286	90
Case depth	1549	61	1549	61	1549	61
Case m ³	2.56m ³		2.56m ³		2.69m ³	
Weight (kg)						
Weight nett	1100		1700		1900	
Weight gross (Inclusive of Packing Case, Grille Gate and Stainless Steel Cladding)	1320		1920		2120	
Floor loading	2780 kg/m ²		4296 kg/m ²		4800 kg/m ²	

- When ordering, please state :**
- Wall thickness.
 - Type of wall e.g. brick, R.C. etc.
 - Hung of Door required.
 - If to be installed in multi-storey building, state floor/level.
 - Path of access to where Door is to be installed.
 - If A/C supply available for Ventilator/Lighting.
 - Floor loading.

Note : Chubb Doors are designed primarily against physical attack, but for recommended storage of paper documents and computer media, ask for details of Chubb Fire Resistant Protection Cabinets or Chubb Data Cabinets.

Note : Any alteration in door size will cause the UL listing to be non-applicable.

Note : Chubb policy is one of constant improvement. We reserve the right to alter any specification contained in this publication without prior notification. Variance ± 5mm.



Chubbsafes

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Distributor/Dealer Details



LISTED

"This product is listed to UL Standards and requirements by Underwriters Laboratories Inc."
 UL 608



SIRIM
 MS ISO 9002

Registration No : AR 0238

Catalogue Reference No :
 1/01/1



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LISTED

CHUBB UL LISTED VAULT DOORS

Security trusted by people worldwide.

The Certification secured under the Underwriter's Laboratory Inc of America (U.L.) for Burglar Resistant Doors under Classification 1, 2 and 3 is yet another consistent effort by Chubb in maintaining unrivaled standards for Physical Security Equipment Worldwide.

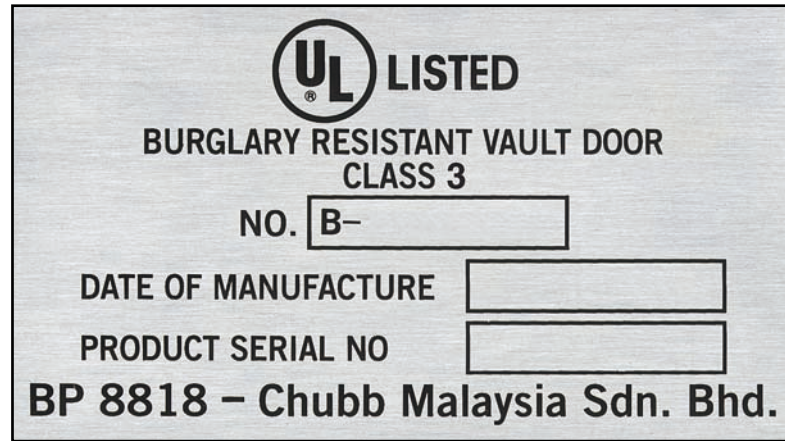
Chubb has more than 180 years of experience in the manufacture of Physical Security Equipment, with correspondingly high expectations from its Clients worldwide.

The U.L. Listing achieved represents one of the most widely established and recognized independent certification bodies for such equipment worldwide.

This catalog outlines Vault Doors that have achieved U.L. Class 1, 2 and 3. The UL Symbol on the name plate secured to the back of the Door verifies the authenticity of such a product. Doors described in this brochure are designed for high-risk applications in major bank branches, jewelry outlets or at locations which require protection of valuables within a high risk security environment.



Above, As with all Chubb security products, you can feel secure with the knowledge that they are backed by Chubb's extensive network of branches providing sales and technical support throughout most states nationwide.



Above, UL Symbol on the name plate denotes the authenticity of our UL Doors.

TESTING IN COMPLIANCE TO UL 608

To be rated as a UL Door, each one has to pass any or all of the three rigorous tests conducted by Underwriters Laboratory of America professional operators. The door shall resist the best method or combination of methods implemented to a specific area for the total working time specified. The tests are designed to authenticate the burglary resistant rating of vault doors according to the length of time they withstand attack by common tools described in the following section. Ratings are based on the total working time to result entry.

- Class 1 - 1/2 hour
- Class 2 - 1 hour
- Class 3 - 2 hours

ATTACK TESTS
Lock Mechanism

The objective of this test is to ensure that the high quality and security locking mechanism installed can withstand intense/violent attempts to break in to release the boltwork. In this test, the lock box, lug, carrying bar, or other parts of the lock is punched, pried, picked or cut to impair the locking mechanism.

Cutting An Opening

This test is carried out to verify if the door is able to withstand massive attacks or forced entry through the exterior. A 96 square-inches (619 cm²) hole is tried to be cut through the door, the door frame, a modular panel or at a seam joining two or more modular panels.

Cutting Locking Bolts

This test is designed to verify for the endurance of the bolts. The operators will attempt to cut as many bolts as necessary to open the door.

CONCLUSION

In all the above tests, the Chubb UL Vault Door has complied to the requirements of UL 608 for Burglary Resistance. In addition to the various tests outlined above, UL also reserves the right to inspect the manufacturing facility, components and suppliers that make-up the manufacturing process of the Chubb UL Vault Door.

* To find out more about what UL is all about, please refer to the UL website at <http://www.ul.com>.

STANDARD FEATURES OF UL 608 CLASS 1, 2 AND 3 DOORS

Door

Inner and outer door plates filled with Torch and Drill Resistant or Anti-Arc material provides excellent protection against attacks as per listed in Standards UL 608.

- **Class 1**
 - Overall thickness 8" (203mm)
 - Slab thickness 3 1/2" (89mm); Torch and Drill Resistant (TDR) and supplementary Chubb's F80 barrier material.
- **Class 2**
 - Overall thickness 9" (229mm)
 - Slab thickness 4 1/2" (114mm); Anti-Arc with supplementary Chubb's F80 barrier material.
- **Class 3**
 - Overall thickness 10 1/2" (267mm)
 - Slab thickness 6" (152mm); Anti-Arc with supplementary Chubb's F80 barrier material.

BOLTWORK

Each chrome plated bolt has a diameter of 1 1/2" (38mm) and when extended, fit smoothly into individual boltholes. The general boltwork system is manufactured using rust-resistant steel offering maximum wear resistance against corrosion and prolonging depreciation of working and moving parts. Extensions to the boltwork system like the wheel handle have also been designed to deliberately disconnect from latter should excessive force be applied while turning the wheel handle. Disconnecting the wheel handle from the boltwork system isolates control, making the prospect of securing an entry more time consuming and difficult.

- **Class 1**
 - A total of 18 heavy cylindrical bolts comprising 7 front bolts, 7 fixed back bolts, 2 top and 2 bottom bolts securing all 4 sides of the Door.
- **Class 2 and 3**
 - Secured by 7 heavy cylindrical through bolts, 2 top and 2 bottom bolts. The horizontal 'through' bolts extend throughout the full width of the door.

Frame

The unique Chubb "wrap around the wall" frame is used in this Door's manufacture, increasing the holding strength of the Door upon its installation into the vault room wall.

Locking

- **Class 1**
 - Secured by 2 units of U.L. Group 2M four wheel keyless combination locks.
- **Class 2 and 3**
 - Secured by U.L. Group 1 four wheel keyless combination locks.

Blinder shields are fitted as standard.

Automatic Relockers

- **Class 1**
 - Locks are individually protected by tempered glass relocker systems, which would activate 2 relockers when attacked. The other relockers run along the bolt mechanism and would activate an additional 4 relockers upon attack, giving a total protection of 6 relockers.
- **Class 2 and 3**
 - Lock area is protected by a tempered glass relocker system which activates a total of 7 relockers upon attack.

Emergency Ventilator
Provides fresh air and makes it possible to conduct a two way conversation and supply food and water to anyone who may be trapped inside the room.

Lighting Control and Alarm Microswitch
The microswitch is fitted to control electric light in the vault room. It also serves as a fire precaution to ensure that all wiring within the vault is disconnected when the door is closed. The alarm microswitch allows for the possibility of this Door to be connected to the premise's central alarm system.

OPTIONS
Emergency Door
An equivalent Emergency Door may be fitted. The Emergency Door is not UL Listed.

Grille Gate
A stainless steel Grille Gate may be fitted for ventilation of the vault during the day and for control when the door is open. The Grille Gate is secured using 2 Chubb 5-lever pick and drill resistant Mortice Locks.

Finish
High quality scratch-resistant grey primer for painted finish with an option of stainless steel cladding. The wheel handle is chrome plated.

Optional Locking
Dial Check Locks and 2 or 3 movement timelocks may be incorporated into the Door as optional fittings.



Above, Chubb 4 1/2" UL 608 Class 2 Door in Stainless Steel cladding



Right, breathing tubes incorporated into the Vault Door frame.