

VSI 360 Round Vault Door

By Don Adams, Vault Structures, Incorporated, Ft. Myers, Florida

VSI (Vault Structures, Inc.) re-introduced the beloved Round Vault Door, long the world symbol for security at the recent BAI Convention in Orlando. The styling and workmanship of the early 20th Century has returned with increased security, lower overall weight and the features required today for personal safety.

With the advancements in metallurgy and composite materials over the last century VSI has achieved a U.L. Class 111 rating with the use of Herculite, modern day metals, a superior locking system and a flat sill entry. In addition an emergency inside release is offered as required in the world market.

Vault Door barrier material:

Unlike the early 20th Century doors where a mass of ore was the deterrent for burglary protection, the VSI door relies on U.L. tested and VSI designed Herculite material 8” thick for the barrier. This effectively provides a barrier to meet the tools of today which are far superior to the tools of the early 20th Century. In addition the use of Herculite greatly reduces the weight.



Locking System:

The door is securely locked with 24 3” highly polished locking bolts and multiple re-lockers. The bolts are piston driven from the central locking system which is opened by simply turning the ship handle after disengaging the re-lockers by turning the primary wheel ¼ turn. The central locking system is controlled by the combination lock(s), two are standard however a third is optional. These locks can be set so either lock will open the door or set so both locks are required. The time of opening is controlled with a three movement time lock, either mechanical or optional electronic.

The locking system is fully protected by a glass barrier that would break if attacked. Once broken there are multiple re-locking devices which would simply lock up the system. All re-lockers would have to be eliminated separately to open the door. This would require separate attacks on the Herculite barrier material.

Emergency Ventilator:

In the event a person is trapped inside a locked vault, an emergency ventilator (and pass through for life support essentials) is provided.

Day Lock:

A day lock is provided so the bolts may be locked in the open position when the door is open. This will avoid any potential for employees to be locked in the vault, also, any potential damage to the door finishes made closing the door with the bolts extended.

Inside Release:

An option, normally required in the worldwide market is the inside emergency release. This uniquely designed device will release the time locks, disengage the combination locks and allow the person trapped inside to open the door. The door can then be relocked from the outside.

Flat sill:

Unlike the early 20th Century doors, the massive “bridges” have been eliminated in the VSI design and a flat sill has been incorporated. This greatly reduces the physical requirements for the people responsible for opening and closing the door as well as complying with the ADA.

Customer access:

The locking system is secured behind a glass back on the door. This allows the customers to view the intricate locking system with its multiple gears and massive locks. This is the heart of the door as it would be viewed by all when open and be a centerpiece. To access the time locks, locks and emergency release a separate access door is also provided.

Finishes:

Standard finishes are a combination of stainless steel, highly polished aluminum, black and gold.

Weight:

The finished overall weight will be approximately 9000 pounds.

Clear opening:

The clear opening is 84"

Day Gate:

The day gate is a mechanical sliding gate covering the entire opening. This may be set up with an electrical assist and also equipped with an electronic locking system.