Architect's Vault Planning Guide

Class 350 Four Hour Document Vault with Class 125 Media Rating

- Vault Doors
- Modular Panels
- Cable Trays
- Fire Dampers for Environmental Control



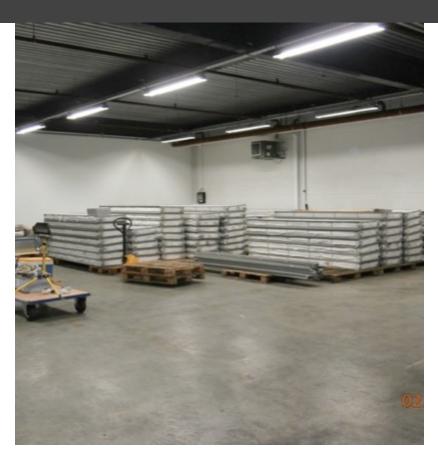


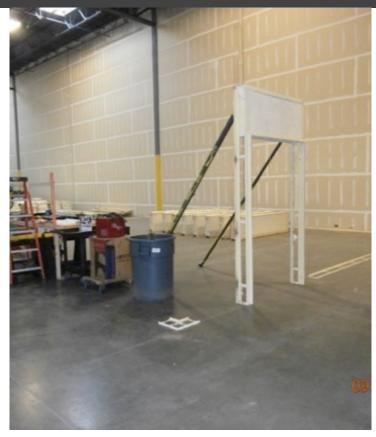
Vault Panels & Structural I Beams

All Panels are a male to female design and insert one into the other and then are tack welded in place. Each panel behaves as a box beam and provides superior strength for the vault. Dead Load of 150 to 350 ppsf are typical.

The vaults are rated for 185 mph wind loads and Zone IV Earthquake resistance.

Panels and Vault Components arrive





Vault Track and Vault Stanchion are mounted to floor and sealed



After Side Wall Panels are mounted in the floor track, the roof panels are installed.



Welded Assembly of Box Beam Frames





Vault Door Details









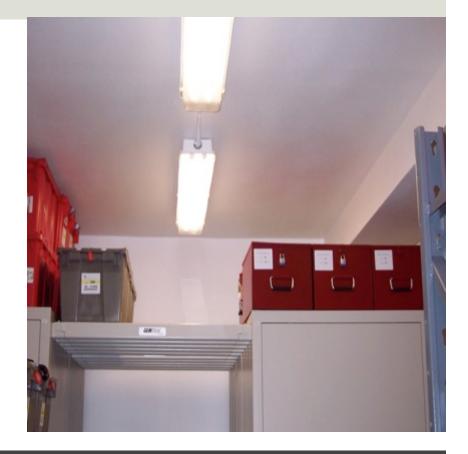
Left Hand Door Illustrated

Vault Doors & Emergency Egress

Vault Door is equipped with combination lock. The Inner Class 125 Door is equipped with Lever Handle with high quality unpickable key lock. This can also be specified to use a card access or biometric card access system electric strike on the inner door. (Electric Strike by Hardware Sub.)

Vault Doors are equipped with Emergency Egress Device.





Vault Details

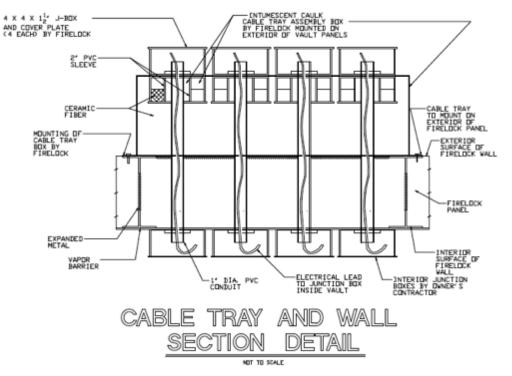
Vault Doors are typically equipped with an automatic hydraulic closer. But this limits the door open swing to 110° open.

Note that the light fixtures must be dust & vapor resistant type.



Cable Trays mounted on Roof Deck

Cable Trays use fire caulking inside the inner box, and a meltable conduit to run through to the interior of the vault. The caulk seals the conduit entry points. After caulking is complete, the top lid of the Cable Tray is fastened in place. Note the step down transformer also mounted to control the Automatic Door Closers





Electrical Penetrations through the Cable Tray

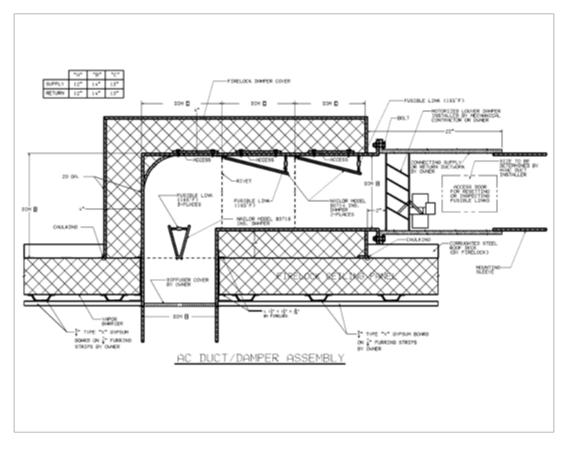
Cable Trays can enter through the roof panel or side wall panel as required by architectural design.



Fire Damper - Location Defined On Site

Unit penetrates panel to deliver conditioned air into the vault.

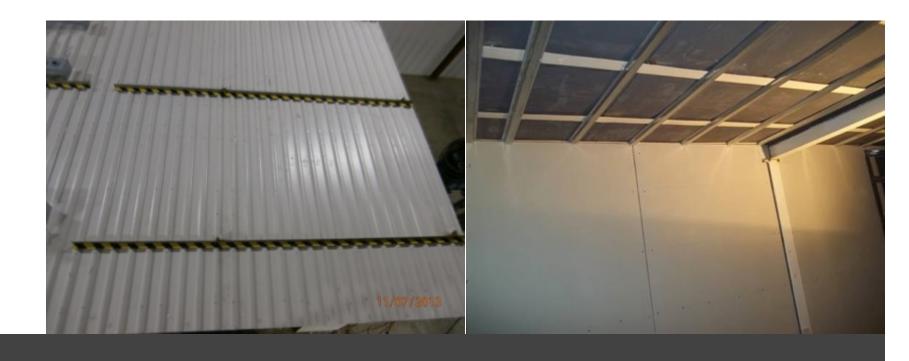
Fire Dampers are Triple Blade Units with and Insulated Housing





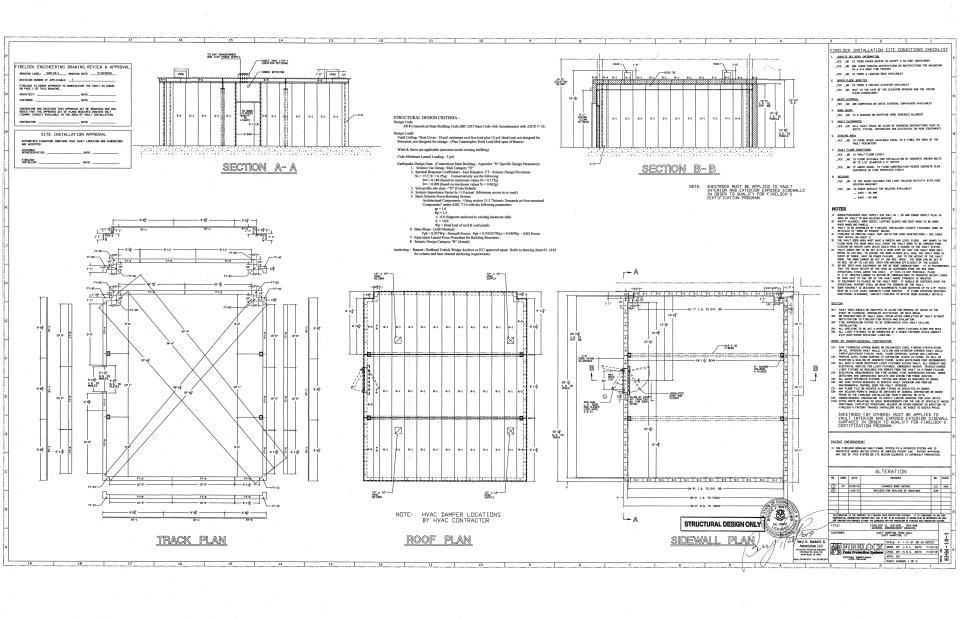


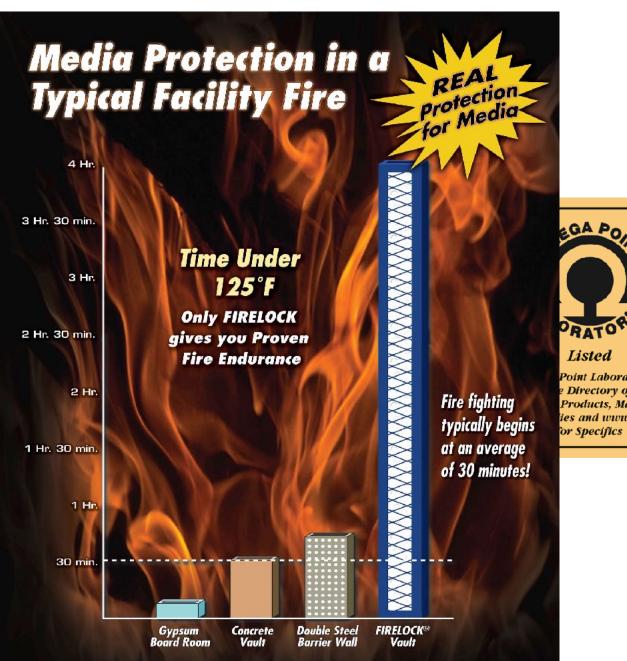
HVAC Fire Damper



Water-Shield Roof Deck

This vault is Tornado Rated and roof deck is anchored for high winds and water-resistance. The interior of the vault is a steel vapor barrier. The GC adds a ¾" hat track to the interior of the vault and installs their drywall on this hat track. Structural can be exposed or hidden behind the drywall.





INSULATED PANELS

Point Laboratories Directory of Listed Products, Materials ies and www.opl.com

Listed

FIRELOCK Data Protection Systems™ Fleetwood, PA

Listing #16394-1

UL 72 Section 5 - Fire Endurance Test **UNVENTILATED Modular Vault with** Through Penetration and Door Class 125 - 2 hrs. Min. 4.5 x 9 Ft. Rectangular Vault Min. 6 x 6 Ft. Square Vault Class 350 - 4 hrs. Min. 3 x 6 Ft. Rectangular Vault Min. 4 x 4 Ft. Square Vault and ASTM E 119 - 5 hrs. Modular Vault Panel