

The following work is traditionally provided by other trades and is not included in the scope of work of the clean agent fire suppression systems contractor.

## **General Contractor: Doors & Windows**

- All doors must have a threshold and sweep installed.
- Egress doors should swing out of the protected space.
- Doors may require weather stripping around the jam to ensure an air tight seal.
- Latching mechanisms are necessary and door closures may be required.
- If doors must remain open, an electromagnet door holder will be required and released prior to agent discharge.
- All types of windows, pass through, or openings, etc. must be fire caulked and sealed.

## **General Contractor: Walls, Ceiling, & Floors**

- Porous block walls must be sealed slab-to-slab to prevent gas from passing through the block. Two or three coats of paint are typically required.
- Protected areas should be enclosed with wall partitions which extend slab-to-slab. In areas where this is not possible, all ceiling tiles should be clipped and openings caulked.
- All walls should be caulked around the inside perimeter of the room where the walls rest on the floor slab and the walls intersect with the ceiling slab above.
- Upgraded ceiling tiles are recommended – similar to Gridstone Brand .
- Drywall should be caulked at the joints of the walls and floor, and at the roof or floor above.
- Any penetration, including all conduit, cable trays, outlets, switches and wire troughs must be fire caulked and sealed.
- If a raised floor continues out of the protected space, bulkheads must be installed under the floor directly under the partitions. These bulkheads must be caulked top and bottom.
- All floor drains should have traps and the traps should be designed to have water in them at all times.

## **Mechanical Contractor: HVAC Specialties**

- To ensure the protected area is air tight, dampers may be required in the ductwork at the perimeter walls of each protected space.
- Dampers must be spring loaded or motor operated to provide 100% air shut off.
- All dampers are to be UL # 5555 to meet the 5% minimum leakage requirements.
- All HVAC in the protected space shall be shutdown prior to agent discharge. Self-contained HVAC units may continue to run if approved by the AHJ.
- HVAC shut down control relays should be installed to within 3 ft. of each unit.
- All exhaust fans should be dampered. Fire alarm system control relays are used to shutdown any fans.
- All fresh air intakes should be dampered and closed using fire alarm system control relays.

## **Electrical Contractor: Power and Interface Wiring**

- 120 VAC dedicated 15 AMP circuit to the suppression control panel is required.
- Power to all dampers – control relays within 3 ft. of damper.
- Fire alarm monitoring - contacts for alarm, supervisory and trouble conditions are available within the fire control panel. Connection is handled by fire system contractor.
- Purge system control wiring to HVAC units and exhaust fans are interfaced with the fire alarm system control panel. Connection is handled by the fire system contractor.