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Specifications for a “GB Model” Flashover Training Simulator.

Burn Chamber:

The burn chamber shall be constructed from a new or nearly new standard shipping container. The dimensions shall be 10ft long X 8ft wide X 8.5ft high.

The inside of the burn chamber shall be steel lined and then insulated with a refractory type heat resistant lining to prevent heat damage to the outside of the burn chamber. The original container doors for the burn chamber shall be steel lined and insulated with the same, refractory type, heat resistant lining to protect the doors from heat damage.

Support legs shall be installed to support the weight of the Burn Chamber.

One locking bar from each door shall be removed. The handle on the remaining locking bars shall be re-located to a higher position to allow for easier use of the door handles.

The original wood floor shall be removed and replaced with grating and 2” concrete slab and then covered with 2” firebrick.

Chains on the side walls shall be fitted to support the sheets of particle board. Slack adjusters shall be fitted to the chains to allow for the occasional tightening of the support chains.

Two Temperature probes shall be installed in the burn chamber.

The burn chamber shall be sandblasted and painted with Black heat resistant paint.

The Burn Chamber shall be attached to the observation chamber end so that the Burn chamber floor is 36” higher than the Observation floor.

A platform shall be installed at the rear of the burn chamber to facilitate the loading and unloading of burn materials. The platform shall be protected by railings. A platform access stairs shall be provided.

Observation Chamber:

The observation chamber shall be constructed from a new or nearly new shipping container. The observation chamber shall be a least 20ft X 8ft X 8.5ft. Exit doors shall be installed at the end of the observation container.

The interior walls of the observation chamber shall be steel lined and insulated at least 8ft from the burn chamber end of the container. The ceiling shall be steel lined and insulated at least 8ft from the burn chamber end of the container. Bench seating shall be provided.

An interior baffle plate shall be installed at least 8ft from the burn chamber end. A smoke hood and chimney stack shall be installed at the baffle plate. The smoke hood damper shall be controlled with an externally connected cable and lever.

A secondary vent hatch shall be installed towards the rear of the Observation chamber. The opening and closing of the vent hatch shall be controlled by an interior cable.

The observation chamber shall be sandblasted and painted. The interior walls shall be sandblasted.

The purchaser is responsible for all site preparations.

The purchaser is responsible for the rental of a 40ton mobile crane for final positioning of the simulator unit.

A 2 day Train the Trainer course shall be provided with each Flashover Simulator.

Warranty: 10 years free replacement on Burn Chamber if the burn chamber becomes un-repairable. 2 years on other structural components.