



LIVE FIRE EXERCISE SHOOTHOUSE (LFSH)



Narrative Description



Purpose

TC 25-8 Training Ranges, dated 10 May 2010, is the basis for the standard design information in this document. The Live Fire Exercise Shoothouse (LFSH), FCC 17879, provides the Commander with a facility to train and evaluate a unit's ability to move tactically (enter and clear a room; enter and clear a building), engage targets, conduct breaches and practice target discrimination during a live fire exercise.

The standard shoothouse must support the following list of weapons/ammunition:

- 5.56mm M193 (M588A1)
- 5.56mm M855 (M16A2-4 and M4's)
- 5.56mm M855A1 (M16A2-4 and M4's) (EPR)
- 5.56mm M855A1 Linked (M249)
- 5.56mm Military Pack Short Range
- 5.56mm Jacketed Frangible
- 5.56mm M862 Short Range Training Ammunition

The Shoothouse shall also support blank fire, Multiple Integrated Laser Engagement System/Tactical Engagement System (MILES/TES), and Special Effects Small-Arms Marking System (SESAMS).

Refer to the standard drawings for the layout of the standard Shoothouse.

General

The standard shoothouse has a minimum net training space of approximately 158 square meters (1700sf). The actual gross area of the shoothouse depends on the thickness of the bullet absorbing material chosen but it should be less than 232 square meters (2500sf). The maximum square footage of the shoothouse canopy is 418 square meters (4500sf).

Bullet absorbing walls may be Shock Absorbing Concrete (SACON), sand filled wall section, Armor Plate steel with a ricochet defeating cover, or a commercial product designed to stop and contain rounds and ricochets. Design the bullet absorbing wall system to be replaceable and/or repairable. Using separate bullet traps behind the targets will reduce the number of rounds hitting the wall, which in turn will increase the life of the system (bullet traps are not MILCON funded). Shoothouse wall systems must contain and control ricochets down an angle of 15-degrees or less. The wall system selected should withstand at least 10 years of normal use.

The standard Shoothouse has eight rooms and two corridors. Included in the design are four full size entrances/exits and four breach holes, 1 exterior and 3 interior. All must be designed for training dynamic entry methods. The Shoothouse is not designed for live fragmentation/concussion grenades.

The Shoothouse must accommodate the types of mechanical and explosive breaching techniques used. The layout of the rooms may be changed from the standard in order to support a units particular training tasks.

A secondary containment structure must be provided to stop rounds exiting through the exterior doors and breach points in the Shoothouse. This may be done using additional bullet absorbing wall material, earth berms, or another method.

Design the electrical closet and catwalk to be self-supporting to allow Shoothouse wall panel replacement.

Refer to the Layout Details in the Appendix of this document for the standard Shoothouse layout.



Targetry

All targets are fully automated and the event specific target scenario is computer driven and scored from the After Actions Review building. The range operating system is fully capable of providing immediate performance feedback to the using participants. All targetry are life-like precision targets that have reconfigurable plug and play capability.

The targetry in the Shoothouse is placed in a tactical array that supports current training standards.

Primary Features Include:

- 1700 Minimum net square footage of training capability
- 14 Single Universal Target Outlets (UTOs)
- 4 Double Universal Target Outlets
- 10 Human Urban Targets (HUTs) ver. 2

Associated Range Operations and Control Facilities:

- Operations/Storage Building (17122)
- Latrine (73075)
- After Actions Review Building-Small (17123)

Required Documents:

- FM 3-06.11 Combined Arms Operations in Urban Operations
- ARTEP 7-8-DRILL Battle Drills for the Infantry Platoon and Squad
- TC 90-1 Training for Urban Operations

Additional Information:

A roof does not reduce 360 degree SDZ. It is there to reduce light, weather protection, enhance realism, and provide superstructure for an overhead crane if necessary. Ballistic roof, if added, should be UL 752 listed level 5 or higher depending on the ammunition used .

