

## BLEACHER ENCLOSURE



Function: Used as an instruction area for soldiers before and after range use, may also be used as a range observation area.

Drawings: See drawing A-10 in the Appendix of this document.

Size:	55.6 square meters (598.5 square feet)
Occupancy:	200
Foundation:	Concrete slab-on-grade with individual spread footings
Shell:	Structural steel frame with metal siding
Roof:	Un-Insulated SSMR system
Doors:	Sliding doors may be placed in the back or on the sides for ventilation.
Windows:	None
Interior Finishes:	Metal siding
HVAC:	None
Lighting:	Both red and white lighting are required
Special Switching:	See Night Operations Lighting paragraph
Receptacles:	General Purpose GFCI, 120V, 20A duplex receptacles mounted a minimum of 450 mm (18 inches) above the finished floor
Lightning Protection:	Mast-style safe cover for personnel
Misc:	2 10-row aluminum bleachers 4.57 meters long
Power:	120V
Communications:	None

Notes: Bleachers must be secured to the concrete slab.

Grounding: Grounding is required for safety. Building electrical system grounding will consist of one or more ground rods connected to the service panel in accordance with NFPA 70 and all other applicable standards.

Night Operations Lighting: To prevent interference with specialized equipment used during night operations, red lenses or red lamps must be provided in addition to standard lighting if the following conditions exist.

- Night training will be performed
- ROCA buildings are near the firing positions
- ROCA building has windows that cannot be covered.

Separate switching for the standard and red lighting shall also be provided, located near points of egress.

Lightning Protection: A risk analysis performed in accordance with NFPA 780 on the Bleacher Enclosure and Covered Mess may indicate lightning protection is not required for these facilities. A mast style protection shall be provided for these facilities regardless of the results of a risk analysis. Range safety procedures require a solidly grounded structure on site for soldiers to safely assemble during lightning storm events. The Covered Mess and Bleacher Enclosure facilities provided with lightning protection systems serve this function.

Removal of the lightning protection system from either of these facilities will only be allowed under the concurrence of the safety personnel responsible for the range in consideration. In such cases, they should have a safety procedure in place to allow for the safety of soldiers during lightning storm events.