

## Operations/Storage Building



Function: Used as a range office and storage area for range maintenance equipment, spare parts, tools, and supplies.

Design Details: The operations/storage building accommodates range personnel and stores supplies, spare parts, and tools. See the ROCA Details in the Appendix of this document. The configuration of the operations/storage building depicted in the details in Appendix may be modified by the designer based on the functional requirements of the building's designated use.

Size:	74.3 square m (800 square ft)
Occupancy:	4
Foundation:	Concrete slab on-grade with turned-down edges
Shell:	Structural steel frame with metal siding or reinforced split-faced Concrete Masonry Unit (CMU)
Roof:	SSMR on wood trusses with batt insulation
Doors:	Insulated hollow metal
Windows:	Aluminum frame with polycarbonate glazing
Interior Finishes:	Painted sheetrock or CMU, sheetrock ceiling
HVAC:	Through wall heat pump - site adapt-(Operations Area only, Storage Area has ventilation only)
Standard Lighting:	Fluorescent
Special Lighting:	Red lenses or red lamps, Emergency Lighting
Special Switching:	See Night Operations Lighting paragraph
Lightning Protection:	None
Electrical Service:	120/240Vac, Single Phase, 3-wire Secondary
Receptacles:	General purpose, 120V, 20A duplex outlets mounted 450 mm (18") above the finished floor.
Data Communications:	None
Telephone:	Standard voice cable (optional)

Primary Power Distribution: Primary distribution service may be overhead or underground. The ROC-Control Tower may also supply power to the building depending on the physical separation between the two structures.

**Electrical Service:** The Operations/Storage building is supplied via a main breaker power distribution panel that has separate circuits for the lighting, convenience outlets, control, and HVAC equipment.

**Lighting:** Emergency and Exit lighting will be provided in accordance with NFPA 101 and NFPA 70.

**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.

**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 codes.

**Environmental:** The indoor temperature for the operational equipment should be between + 21.1°C (70°F) to +25.6°C (+78°F). Non-operating temperature should be: - 34.44°C (-30°F) to +65.56°C (+150°F). Humidity should be between 10% - 80% RH non-condensing.