

DESIGN CRITERIA

1. Related Sections: See related Division 05, Division 07, and Division 08 Design Criteria.
2. Roof hatches shall be provided in facilities with minimal roof top equipment (i.e., air cooled condensing units, air intake and exhaust fans, small prepackaged HVAC units, etc.).
3. Stair towers for roof access, using 3'-0" wide by 7'-0" high insulated standard steel doors, shall be provided in facilities with roof mounted refrigeration mechanical centers and HVAC systems. Refer to Division 08 Hollow Metal Doors and Frames for roof access door criteria.
4. Roof hatch shall be single leaf-type with minimum opening size of 2' 6" by 4' 6" and typically accessed by a ship's ladder from the mechanical equipment mezzanine. Refer to Division 05 Metal Fabrications for ship ladder design criteria.
5. Locate roof hatch parallel with roof framing and position to avoid overhead clearance conflicts with intermediate framing / bridging and ship's ladder.
6. Verify intended roof surface drainage patterns are maintained around hatch installation. Provide crickets where required to direct surface runoff around units and not cause ponding.
7. Provide safety railing system, at roof level, around roof hatch.
8. Do not locate roof hatch or any equipment requiring maintenance within ten feet of a roof edge, unless safety railings are provided.
9. Provide roof walkway pads from roof hatch access point to all roof top equipment requiring maintenance. Location of walkway pads shall be indicated on roof plan.
10. Verify that a security alarm contact is provided at roof hatch, as well as padlock.

END OF SECTION