NFPA 101 Life Safety Code - 2009 & 2015 Editions

| Building Classification: Hazard Classification: Construction Type: Occupant Loads: | Storage – 9,600 gross sf Ordinary Hazard Type II (000) 9,600 sf @ 500 occupants/sf = 20occupants (Not Applicable in Storage Uses) | | |
|---|--|--|--|
| Building Uses | Storage | | |
| Max. Allowable Travel Distance: Max. Allowable Common Path: Max. Dead End Corridor Length: Minimum Number of Required Exits Minimum Separation of exits: Minimum Egress Door Width: | 200' - except 150' at Aircraft Hangers 50' 50' 2 0.5 diagonal 36" | | |
| Exit Lighting: Emergency Lighting: Fire Alarm System: Fire Sprinkler System: Deluge Foam System Portable Fire Extinguishers: Exit Devices/Panic Hardware Additional Requirements | Required Required Required per NFPA 409 Required per NFPA 409 Not Required per NFPA 409 Required Not Required NFPA 409, Standard on Aircraft Hangers Group III per 4.1.3 | | |
| 2009 International Building Code | | | |
| Building Classifications: Hanger Classification (Table 412.4.6) Total Fuel Capacity of Stored Aircraft: Construction: Occupant Loads: | Storage – S-1; Aircraft Storage Hanger – 9,600 gross sf Group III (under 12,000 sf & 28' high door maximum) 3,963 gallons Type IIB – Non-Combustible, Combustible, Unprotected 9,600 sf S-1 @ 500 sf/occupant = 20 occupants | | |
| <u>Building Limitations</u> Construction Type: Maximum Height: Maximum Area / Floor: | IIB Unprotected 2 story / 55' at S-1 17,500 sf at S-1 | | |
| <u>Fire Resistance Ratings</u> Load Bearing Exterior Walls: Roof Structure: | None | | |
| <u>Egress Criteria</u> Minimum Number of Exits: Maximum Dead End Corridor Length: Maximum Common Travel Path: Maximum Travel Distance: | 2 20' 75' 200' | | |

| Fire Protection Criteria | | | |
|---------------------------------|---|--|--|
| Fire Alarm System: | Required with required Sprinkler System | | |
| Fire Sprinkler System: | Required (Fuel Capacity of Stored Aircraft exceeds | | |
| | 1,600 gallons) | | |
| Deluge Foam System | Not Required (Fuel Capacity of Stored Aircraft does | | |
| | not exceed 7,500 gallons) | | |
| Portable Fire Extinguishers: | Required | | |
| Exit Lighting | Required | | |
| Emergency Lighting | Required | | |
| Infrared Heater Height: | 10'-0" minimum above upper surface of wing | | |
| | or engine compartment of tallest aircraft. | | |
| Puilding Live Loads | | | |
| Building Live Loads Storage: | 125 psf @ light; 250 psf @ heavy | | |
| Storage. | 125 psi @ light, 250 psi @ liedvy | | |

MUBEC (Maine Uniform Building Energy Code) MINIMUM INSULATION VALUES Per 2009 IECC; Table 502.1.2, 502.2(1) and 502.3

| ZONE 6A | R-VALUE | U-FACTOR | SHGC |
|---------------------------|----------------|-----------------|------|
| | | | |
| Exterior wall (mtl bldg.) | 20.0 | 0.050 | NA |
| Roof (above deck) | 20.0 ci | 0.048 | NA |
| Slab (24" band) | 15.0 | 0.052 | NA |
| Frost Wall | 7.5 | 0.133 | NA |
| Doors – Opaque | 2.0 | 0.50 | NA |
| Doors – Glazed | 1.25 | 0.80 | NR |
| Windows | 2.9 | 0.35 | NR |

End of Analysis