



Fire Protection System Requirements

City of Grand Junction and Grand Junction Rural Fire Protection District

IFC 2018

Occupancy	Examples include but are not limited to:	Manual Fire Alarm & Auto. Smoke Detection Requirements
A-1	Theaters, Concert halls	<p>Manual: Occupant load ≥ 300: or, > 100 above or below the lowest level of exit discharge (Exception: Sprinklered buildings where occupant notification will activate throughout upon sprinkler activation) (907.2.1)</p>
A-2	Banquet halls, Night clubs, Restaurants, Taverns and bars	
A-3	Community halls, Dance halls, Museums, Funeral parlors	
A-4	Arenas, Skating rinks, Swimming pools	
A-5	Bleachers, Grandstands, Stadiums	
B	Banks, Clinics-outpatient, Educational above 12th grade, Post offices, Professional Services	Manual: Occupant load of ≥ 500 > 100 above or below the lowest level of exit discharge Fire areas containing an ambulatory care facility (907.2.2)
(B)	Ambulatory Care Facility	Automatic: Facility plus public use areas outside of it including public corridors and elevator lobbies (Exception: Sprinklered buildings where occupant notification will activate throughout upon sprinkler activation) (907.2.2.1)
E	6 \leq persons through 12th grade, day care > 5 persons but over 2 1/2 years old	Manual: > 50 persons (several exceptions for manual fire alarm box placement) (907.2.3)
F-1	Moderate Hazard - Aircraft, Bakeries, Electronics, Engines, Laundries	<p>Manual: \geq two stories with occupant load of ≥ 500 above or below the lowest level of exit discharge (Exception: Sprinklered buildings where occupant notification will activate throughout upon sprinkler activation) (907.2.4)</p>
F-2	Low Hazard - Brick, Foundries, Gypsum, Ice, Metal Fab/Assembly	
H-1	High Hazard – materials posing a <i>detonation</i> hazard	<p>Manual: H-5 occupancies and occupancies used for manufacture of organic coatings (907.2.5) Automatic: Highly toxic gases, organic peroxides and oxidizers (907.2.5)</p>
H-2	High Hazard – materials posing a <i>deflagration</i> hazard	
H-3	High Hazard – materials posing a <i>physical</i> hazard	
H-4	High Hazard – materials posing a <i>health</i> hazard	
H-5	Semiconductor Facilities	



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Occupancy		Manual Fire Alarm & Auto. Smoke Detection Requirements
I-1	Assisted living facilities, Group homes, Alcohol and drug centers	Manual: All, (Exception: I-1 and I-2 manual fire alarm box placement and private mode signaling) (907.2.6) Automatic: In specific areas by occupancy (907.2.6.1, 907.2.6.2, 907.2.6.3.3)
	Hospitals, Nursing homes, Child care 24hr >5 persons	
	Prisons, Correctional centers	
I-4	Day care facility any age <24 hr care with >5 persons	Manual: All, (Exception: for I-1 and I-2 manual fire alarm box placement and private mode signaling) (907.2.6)
R-1	Hotels, Motels, Boarding houses (transient)	Manual: All, (Exception: for \leq 2 stories with sleeping units having exit directly to exterior; sprinklers) (907.2.8.1) Automatic: All, in interior corridors (Exception: for buildings without interior corridors and with sleeping units having exit directly to exterior) (907.2.8.2)
M	Department stores, Markets, Retail sales	Manual: Occupant load of \geq 500 > 100 above or below the lowest level of exit discharge Exceptions: Covered/Open Malls; Sprinklered buildings where occupant notification will activate throughout upon sprinkler activation (907.2.7)
R-2	Apartment houses, Dormitories, Hotels (nontransient)	Manual: \geq 3 stories above lowest level of exit discharge > 1 story below highest level of exit discharge > 16 units (Exception: for \leq 2 stories with sleeping units having exit directly to exterior; sprinklers; open ended corridors/no corridor) (907.2.9.1) Automatic: In college/university buildings only- Common spaces; laundry, mechanical and storage rooms; interior corridors (Exception: for no interior corridors and each room has direct exit) (907.2.9.3)
R-4	Residential care for $> 5 \leq 16$ persons	Manual: All, (Exception: for sprinklers, manual fire alarm boxes at staff locations, direct exit to exterior, < 2 stories) (907.2.10.2) Automatic: All, in corridors, waiting areas open to corridors, nonsleeping area habitable spaces and kitchens (907.2.10.2)

For SI: 1 foot = 304.8mm, 1 square foot = 0.0929m²

Disclaimer: The information contained therein is based on the International Fire Code (2018 edition) as amended. This matrix has been provided for informational purposes only and is not an all-inclusive list. The information provided is not intended to address all code requirements. Consult the code for more details where needed. **For additional required suppression systems see Section 903 and 907 in the IFC (2018).**