



## 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><b>Manual:</b> Occupant load <math>\geq 300</math>: or, <math>&gt; 100</math> above or below the lowest level of exit discharge  <b>(Exception:</b> 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	<p><b>Manual:</b> Occupant load of <math>\geq 500</math>  <math>&gt; 100</math> above or below the lowest level of exit discharge            Fire areas containing an ambulatory care facility (907.2.2)</p>
(B)	Ambulatory Care Facility	<p><b>Automatic:</b> Facility plus public use areas outside of it including public corridors and elevator lobbies <b>(Exception:</b> Sprinklered buildings where occupant notification will activate throughout upon sprinkler activation)            (907.2.2.1)</p>
E	$6 \leq$ persons through 12th grade, day care $> 5$ persons but over 2 1/2 years old	<p><b>Manual:</b> <math>&gt; 50</math> persons (several exceptions for manual fire alarm box placement) (907.2.3)</p>
F-1	Moderate Hazard - Aircraft, Bakeries, Electronics, Engines, Laundries	<p><b>Manual:</b> <math>\geq</math> two stories with occupant load of <math>\geq 500</math> above or below the lowest level of exit discharge <b>(Exception:</b> 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><b>Manual:</b> H-5 occupancies and occupancies used for manufacture of organic coatings (907.2.5)  <b>Automatic:</b> 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 hazard</i>	
H-4	High Hazard – materials posing a <i>health hazard</i>	
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	<b>Manual:</b> All, ( <b>Exception:</b> I-1 and I-2 manual fire alarm box placement and private mode signaling) (907.2.6) <b>Automatic:</b> In specific areas by occupancy (907.2.6.1 , 907.2.6.2, 907.2.6.3.3)
I-2	Hospitals, Nursing homes, Child care 24hr >5 persons	
I-3	Prisons, Correctional centers	
I-4	Day care facility any age <24 hr care with >5 persons	<b>Manual:</b> All, ( <b>Exception:</b> 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)	<b>Manual:</b> All, ( <b>Exception:</b> for ≤ 2 stories with sleeping units having exit directly to exterior; sprinklers) (907.2.8.1) <b>Automatic:</b> All, in interior corridors ( <b>Exception:</b> for buildings without interior corridors and with sleeping units having exit directly to exterior) (907.2.8.2)
M	Department stores, Markets, Retail sales	<b>Manual:</b> Occupant load of ≥ 500 > 100 above or below the lowest level of exit discharge <b>Exceptions:</b> Covered/Open Malls; Sprinklered buildings where occupant notification will activate throughout upon sprinkler activation (907.2.7)
R-2	Apartment houses, Dormitories, Hotels (nontransient)	<b>Manual:</b> ≥ 3 stories above lowest level of exit discharge > 1 story below highest level of exit discharge > 16 units ( <b>Exception:</b> for ≤ 2 stories with sleeping units having exit directly to exterior; sprinklers; open ended corridors/no corridor) (907.2.9.1) <b>Automatic:</b> <i>In college/university buildings only-</i> Common spaces; laundry, mechanical and storage rooms; interior corridors ( <b>Exception:</b> for no interior corridors and each room has direct exit) (907.2.9.3)
R-4	Residential care for > 5 ≤ 16 persons	<b>Manual:</b> All, ( <b>Exception:</b> for sprinklers, manual fire alarm boxes at staff locations, direct exit to exterior, < 2 stories) (907.2.10.2) <b>Automatic:</b> 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 = 0.0929m<sup>2</sup>

**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).**