

Summary of IFC Manual Fire Alarm and Automatic Fire Detection Requirements

MANUAL FIRE ALARM	
Occupancy	Threshold
Assembly (A-1, A-2, A-3, A-4, A-5)	All with occupant load \geq 300
Business (B)	Total load \geq 500 or occupant load $>$ 100 above/below level of exit discharge
Educational (E)	50 or more occupants (see exceptions)
Factory (F-1, F-2)	\geq two stories with occupant load \geq 500
High Hazard (H-1, H-2, H-3, H-4, H-5)	H-5 occupancies and occupancies used for manufacture of organic coatings
Institutional (I-1, I-2, I-3, I-4)	(Exceptions for I-1 & I-2)
Mercantile (M)	Total occupant load \geq 500 or occupant load $>$ 100 above / below level of exit discharge
Hotels (R-1)	All unsprinklered buildings except \leq two stories with guest rooms having exit directly to exterior
Apartments (R-2)	Unsprinklered four stories or one story below level of exit discharge or $>$ 16 units without exits directly to exterior NOTE: Occupancies (1 and 2) require sprinklers

AUTOMATIC FIRE DETECTION	
Occupancy	Threshold
High Hazard (H-1, H-2, H-3, H-4, H-5)	Highly toxic gases, organic peroxides, and oxidizers in accordance with IFC
Institutional (I-1, I-2, I-3, I-4)	All
Hotels (R-1)	All except buildings without interior corridors and guest rooms having exit directly to exterior

ADDITIONAL FIRE PROTECTION SYSTEMS	
Section	Occupancy
IFC 907.2.11	Special amusement buildings
IFC 907.2.12	High-rise buildings
IFC 907.2.13	Atrium buildings
IFC 907.2.14	High-piled storage
IFC 907.2.15	Egress-control devices
IFC 907.2.16	Aerosol storage
IFC 907.2.17	Lumber, plywood, and veneer mills
IFC 907.2.18, 907.2.19	Underground buildings
IFC 907.2.20	Covered mall buildings
IFC 907.2.21	Residential aircraft hangars
IFC 907.2.22	Airport traffic control towers
IFC 907.2.23	Battery rooms