PROJECT DESCRIPTION:

Existing Circa 1921 two story wood-framed building with two apartments to be renovated and existing unfinished ground floor (walk-out basement) apartment to be completed. A single business occupance will be fit-up in currently vacant space, and storage space will be created in basement. Total gross building area c.7,600 s.f.

TEN PIN LLC

2 ISLAND AVE PEAKS ISLAND, ME 04108

CODE STUDY

IEBC 2009 IBC 2009 NFPA-101 2009

Rachel Conly Design, LLC

26 Sterling Street
Peaks Island, Maine 04108
207.766.5625
Project Architect: James P. Gauthier, AIA
12-Dec-17
updated 01/17/2018

Code Criteria	IBC 2009	NFPA-101 2009	Findings
(IBC Chapters highlited green)			(Relevant interpretations/conclusions highlighted red)
IEBC - Alteration Level 3	§405.1		Where the work area exceeds 50% of the aggregate area of the building. Shall conform with IEBC Chapter 8.
			All altered areas shall comply with the requirements of the IBC save where exempted by IEBC chapter 8.
NFPA-101 - Building Rehabilitation		§43.5.2.3	Where total area of rehabilitation in a modification exceeds 50% of the area of the building the work area will be considered a reconstruction.
		§43.5.1.3	Newly constructed elements and systems shall comply with the requirements for new construction.
		§43.6.4.1	In a building with rehabilitation work areas involving over 50% of the aggregate building area, sprinklers shall be provided on the highest floor containing a rehabilitation work area and on all floors below (if required for new construction for the occupancy)
			Rehabiltation work shall comply with requirements for new construction. Sprinklers required in use groups where they would be required for new construction.
Primary Use and Occupancy Classification	Ch.3		
IBC - Group R-2	§310.1		Apartment House
IBC - Group B	§304.1		Business Group
IBC - Group S-1			Moderate-Hazard Storage
NFPA - 101 New Apartment Building		Chapter 30	A building containing 3 or more dwelling units with independent cooking and bathing facilities.
NFPA - 101 New Business Occupancies		Chapter 38	An occupancy used for the transaction of business other than mercantile.
NFPA - 101 New Apartment Building		Chapter 42	An occupancy used primarily for the storage or sheltering of goods.
Special Requirements R-2	Ch. 4		
Separation walls	§420.2		Walls separating dwelling units and or sleeping units from each other and from other occupancies contiguous to them shall be fire partitions per Section 709.
Horizontal separation	§420.3		Floors separating dwelling units and or sleeping units from each other and from other occupancies contiguous to them shall be horizontal assemblies per Section 712.
Building Heights and Areas	Ch. 5		
Mixed use and occupancy	§508		
Separation of occupancies	table 508.4	table 6.1.14.4.1	Required separation of occupancies:
			Business & Residential = 2 HR
			Storage-1 & Residential = 2 HR

Code Criteria	IBC 2009	NFPA-101 2009	Findings
			Storage Moderate Hazard & Business = 2 HR (reduced to 1-HR w sprinklers throughout).
			None Required by IBC
			Reduction of rating of use separation for sprinklers throughout not taken so that NFPA-13R
		۲	can be used in the R-2 areas.(2018.01.17)
Types of Construction	Ch. 6	٧	
Type V-B construction	table 601		Existing construction. combustible unprotected
Fire Resistance Ratings for exterior walls based on Fire Separation Distance.	table 602		0 HR rated where greater than 10' from lot line.
Fire and Smoke Protection Features	Ch. 7		
Classification of Hazards		§30.1.5	"Ordinary" hazard per 6.2.2
Hazardous Areas		§30.3.2.1	Shall be protected per Section 8.7
		table	Boiler and fuel fired heater rooms serving more than one dwelling unit: 1 HR plus
		30.3.2.1.1	sprinklers.
Vertical Separation		§8.6	
Floor smoke barriers		§8.6.1	Every floor that separates stories shall be constructed as a smoke barrier. Openings shall
FIGURE DATTIETS		90.0.1	comply with Chapter 8 & 30 requirements.
			exception #2: Buildings whose exterior walls and primary structural frame are not required
Openings	§705.8		to be fire resistance rated shall be permitted to have unlimited unprotected openings.
	table 705.8		When fire separation distance >30' no limit to opening percentage.
Forder, and another time of states		5722542	Inside stairs, other than those serving as an exit component, shall be protected in
Enclosure and protection of stairs		§7.2.2.5.1.2	accordance with Section 8.6
Fire resistance ratings for enclosure of floor openings		§8.6.5	Less than 4 stories new construction: 1HR fire barrier.
Fire Partitions	§709.1		Walls separating dwelling units per 420.2
	§709.3		Rating: Fire Partitions shall have 1 HR rating.(1/2 HR w sprinklers)
			Continuity: Fire Partitions shall extend from foundation/floor assembly to roor/ceiling
	§709.4		assembly and shall be securely attached to them. Void space between ceiling & deck above
			firestopped.
			Walls separating dwelling/sleeping units shall be 1/2 HR with 20 minute doors.
Horizontal Assemblies	§712.1		Walls separating dwelling units per 420.3
	§709.3		Rating: Horizontal assemblies separating dwelling/sleeping units shall be minimum of 1 HR
	3,05.5		(1/2 HR with sprinklers throughout).
	§712.4		Continuity: Joints in or between horizontal assemblies shall be firestopped (per section
	3/14.7		714.4)

Code Criteria	IBC 2009	NFPA-101 2009	Findings
	542.6		Joints: Horizontal assemblies separating dwelling/sleeping units shall be minimum of 1 HR
	§12.6		(1/2 HR with sprinklers throughout).
Smoke Barriers	§710.3		Smoke Barriers shall have 1 HR rating.
Smoke Partitions	§711.3		Unless otherwise required, no rating necessary.
Opening Protectives	§715.4.3	('	Door assemblies shall have 20 min. rating in cooridor walls.
		(,	Horizontal assemblies separating occupancies shall be 2HR rated.(2018.01.17)
Concealed Spaces			
Fire Blocking	§717.1		Fire blocking and draftstopping shall be installed in combustible concealed locations.
	5717.2.1		Fire blocking materials shall be 2" nominal lumber, 1/2" gwb, 1/4" cement board, secured
	§717.2.1		mineral fiber batts, or other approved material.
	§717.2.2		In concealed wall spaces install fireblocking (1.) vertically at ceiling and floor levels and (2.)
	9/1/.2.2		horizontally at intervals not exceeding 10'
	§717.2.5		At ceiling and floor openings the annular space around vents, pipes, ducts, etc. shall be
	9/1/.2.5		firestopped.
Draftstopping	§717.3		In combustible construction, draftstopping shall be installed to subdivide floor/ceiling
Draitstopping	9/1/.3		assemblies.
INTERIOR FINISHES	Ch. 8		
Interior wall and ceiling finish requirements	Table 803.9		Group R-2, sprinklered
			Rooms & enclosed spaces: Class C
		§30.3.3.2	Spaces other than exit enclosures & corridors: Class C
	Table 803.9		Group B, sprinklered
			Rooms & enclosed spaces: Class C
		§38.3.3.2	Spaces other than exit enclosures & corridors: Class C
	Table 803.9		Group S, sprinklered
			Exits enclosures & passageways: Class C
			Corridors: Class C
			Rooms & enclosed spaces: Class C
		§42.3.3.2	Storage Spaces: Class C
FIRE PROTECTION SYSTEMS	Ch. 9		
Detection, Alarm, and Communication		520.2.4.4	Described in another set buildings form on money starting and set of the set
Systems		§30.3.4.1	Required in apartment buildings four or more stories or eleven or more units.
Automatic Sprinklers	§903.2.8		An automatic sprinkler system shall be provided in all buildings with a Group R fire area.
Domestic service	§903.3.5.1		Where domestic service provides water supply following shall apply:
	\$002.2 F.1.1		Limited area sprinkler systems limited to <20 sprinklers on any single connection are
	§903.3.5.1.1		permitted permitted to be connected to domestic water service.

Automatic Sprinklers \$30.3.5.1.1 Automatic Sprinklers \$30.3.5.1.2 \$30.3.5.2.3 \$30.3.5.3.4 \$30.3.5.3.5 \$30.3.5.5 \$30.3.5 \$30.3.5.5 \$30.3.5 \$30.5 \$30.3.5 \$30.3.5 \$30.3.5 \$30.3.5 \$30.3.5 \$30.3.5 \$30.5	matic sprinkler , dryer, water
Sprinkler deman required to be hydraulically calculated. All buildings shall be protected throughout by an approved supervised auto system. \$30.3.5.2 Four of fewer stories above grade NFPA-13R sprinklers permitted. Not required in closets <12s.f. Required in all closets w/ equipment (washer heater). \$30.3.5.3 Listed quick-response or llisted residential sprinklers required. Sprinkler system shall be installed throughout building. NFPA-13R allowed in Sprinkler system shall be installed throughout building. NFPA-13R allowed in Sprinkler system shall be installed in new and existing R-2 occupancies. Portable Fire Extinguishers \$906.1 Shall be installed in new and existing R-2 occupancies. Ordinary (moderate) hazard occupancy: Minimum rated single extinguisher: 2-A Maximum floor area per unit &1,500 s.f. Maximum floor area per unit &1,500 s.f. Maximum floor area for Extinguisher: 11, 250 s.f. Maximum floor area for Extinguisher: 11, 250 s.f. Maximum travel distance to extinguisher: 75' \$30.3.5.12 Required in hazardous areas. Group-R: Shall be installed where: (1.) any dwelling or sleelping unit is 3 or a above level of exit discharge. Group-B: Shall be installed where: occupant load>500. Fire Alarm system not required. Smoke Alarms \$907.2.9.2 Shall be installed in following locations: (1.) on ceiling or wall of separate sleeping area in immediate vicinity of bedroom, (2.) in each room sleeping purposes, (3.) in each story of dwelling unit including basement.	, dryer, water
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\$30.3.5.3 Not required in closets <12s.f. Required in all closets w/ equipment (washed heater).	
Syl.3.5.3 heater .	
Sprinkler system shall be installed throughout building. NFPA-13R allowed in Shall be installed in new and existing R-2 occupancies. Portable Fire Extinguishers for Class A table 906.3.1 Ordinary (moderate) hazard occupancy: Minimum rated single extinguisher: 2-A Maximum floor area per unit A: 1,500 s.f. Maximum floor area for Extinguisher: 11, 250 s.f. Maximum travel distance to extinguishers: 75' \$30.3.5.12 Required in hazardous areas. Group-R: Shall be installed where: (1.) any dwelling or sleelping unit is 3 or above level of exit discharge. Group-B: Shall be installed where: occupant load>500. Fire Alarm system not required. Smoke Alarms \$907.2.9.2 Shall be installed in accordance with 907.2.11 In Group R-2 shall be installed in following locations: (1.) on ceiling or wall of separate sleeping area in immediate vicinity of bedroom, (2.) in each room sleeping purposes, (3.) in each story of dwelling unit including basement.	R-2.
Portable Fire Extinguishers Portable Fire Extinguishers for Class A Portable Fire Extinguishers for Class A table 906.3.1 Ordinary (moderate) hazard occupancy: Minimum rated single extinguisher: 2-A Maximum floor area per unit A: 1,500 s.f. Maximum floor area for Extinguisher: 11, 250 s.f. Maximum travel distance to extinguishers: 75' \$30.3.5.12 Required in hazardous areas. Group-R: Shall be installed where: (1.) any dwelling or sleelping unit is 3 or above level of exit discharge. Group-B: Shall be installed where: occupant load>500. Fire Alarm system not required. Smoke Alarms \$907.2.9.2 Shall be installed in accordance with 907.2.11 In Group R-2 shall be installed in following locations: (1.) on ceiling or wall of separate sleeping area in immediate vicinity of bedroom, (2.) in each room sleeping purposes, (3.) in each story of dwelling unit including basement.	R-2.
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Smoke Alarms \$907.2.9.1 above level of exit discharge. Group-B: Shall be installed where: occupant load>500. Fire Alarm system not required. Smoke Alarms \$907.2.9.2 Shall be installed in accordance with 907.2.11 In Group R-2 shall be installed in following locations: (1.) on ceiling or wall of separate sleeping area in immediate vicinity of bedroom, (2.) in each room sleeping purposes, (3.) in each story of dwelling unit including basement.	
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§907.2.11.2 In Group R-2 shall be installed in following locations: (1.) on ceiling or wall of separate sleeping area in immediate vicinity of bedroom, (2.) in each room sleeping purposes, (3.) in each story of dwelling unit including basement.	
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\$907.2.11.2 separate sleeping area in immediate vicinity of bedroom, (2.) in each room sleeping purposes, (3.) in each story of dwelling unit including basement.	utside of each
sleeping purposes, (3.) in each story of dwelling unit including basement.	used for
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3507.2.11.5	
§907.2.11.4 Power supply for smoke detectors shall be the building wiring with battery	
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Smoke Alarms Shall be installed in accordance w/ 9.6.2.10 in every sleeping area, outside of the stalled in accordance with the stalled in accordance wit with the stalled in accordance with the stalled in accordance w	
area in immediate vicinity of bedrooms, and on all levels including basemer	t.
MEANS OF EGRESS Ch. 10 Ch. 30 & 7	
Means of Egress	
§30.2.1.1 Shall comply with NFPA-101 Chapter 7.	i i
Ceiling height §1003.2 §7.1.5 7'- 6" minimum. (6'-8" at projections).	
Slone required for rise less than 12" Exception #1: R-2 single sten w/ max	
Elevation change \$1003.6 Exception #2: R-2 2 risers, 13" tread min, handrail one side.	" rise.
The nath of egress travel along a means of egress shall not be interrunted by	" rise.
Continuity §1003.6 element other than a means of egress component.	

Code Criteria	IBC 2009	NFPA-101 2009	Findings
			The required capacity of a means of egress system shall not be diminished along the path
			of egress travel.
Slip Resistance		§7.1.6.4	The walking surfaces shall be slip resistant under the forseeable conditions.
Occupant Load	§1004		As determined by per unit area factor in table 1004.1.1 or where approved by AHJ the
- Ccupant Load	31004		actual number of occupants for whom each occupied space is designed.
	table 1004.1.1	table 7.3.1.2	Residential: 200 gross s.f./occupant
			Residential: 100 gross s.f./occupant
			Storage: 300 gross s.f./occupant
		§30.1.7	In accordance with table 7.3.1.2 or the maximum probable popluation of the space,
		330.1.7	whichever is greater.
			The total width of means of egress shall not be less than the occupant load served by the
Egress width	§1005.1		means of egress multiplied by .0.3" per occupant for stairways and by 0.2" per occupant
_			for other egress components.
Means of Egress Capacity		table 7.3.3.1	Stairways 0.3 in/person. Level components 0.2 in/person.
Means of Egress illumination	§1006.1		The means of egress shall be illuminated at all times the building space is occupied.
	31000.1		Exception #3: Dwelling units in Group R-2
		§130.2.8	per Section 7.8
Means of Egress illumination emergency power	§1006.3		In the event of power supply failure, an emergency electrical system shall automatically illuminate: (1.) aisles & unenclosed roooms & stairways in buildings that require two means of egress, (2.) corridors, exit enclosures, & exit passsageways in building required to have two exits, (3.) exterior egress components in building required to have two exits, (4.) exterior landings in buildings required to have two exits.
Means of Egress doors	§1008.1		Shall be readily distinguishable from the adjacent construction and finishes such that the doors are easily recognizable as doors.
Door width	§1008.1.1		Minimum width 32" clear door face to stop. Exception #1: Does not apply to R-2 doors not
	0	§7.2.1.2.1	Measured at narrowest point in opening from door leaf to stop.
			Not less than 32" clear. (1.) When pair of doors provided, one shall be 32" (2.) Exit access
			door assemblies serving <70 s.f. shall be not <24" door leaf width. (3.) Door openings
		§7.2.1.2.3.2	serving portion of building not required to be accessible shall be permitted to be not less
			than 28".
Door hanging	§1008.1.2		Shall be bivot or hinge swing. Exception #4: Doors serving single dwelling unit in group R-2.
			Exception #9: Manually operated sliding doors if occupant load <10.
Floor elevation	§1008.1.5		Floor landing each side shall be at same elevation. Exception #2: Exterior doors as provided
	5=300.2.0	§7.2.1.3.1	Floor landing each side shall not vary by more than 1/2" each side.
		§7.2.1.3.5	Existing buildings where exit discharges to exterior can be one step, not to exceed 8" rise.

Code Criteria	IBC 2009	NFPA-101 2009	Findings
Means of Egress doors		§30.3.6.2	20 minute rating required in exit access corridors.
		§30.3.6.2.3	Shall be self-closing and self-latching.
		§7.2.1.5.1	Shall be readily opened from egress side.
		§7.2.1.5.2	Shall not require use of key, tool, or special knowledge to operate from egress side.
Sliding doors		§7.2.1.14	Horizontal-sliding door assemblies shall be permitted in the means of egress.
Means of Egress Stairways			
Width	§1009.1		Not less than 44". Exception #1: Not less than 36" with occupant load <50.
Width		§7.2.2.2.1.2	Not less than 36" with occupant load <50.
Headroom	§1009.2	§7.1.5.3	Minimum 80"
Treads & risers	§1009.4		Riser 7" max, Tread 11" min. Exception #5: within R-2 dwelling units 7 3/4" max riser & 10" min tread.
Vertical rise	§1009.7		Not greater than 12' per flight.
Landings		§7.2.2.3.2.3	Landing depth shall not be less than the stair width.
Tread & landing surface		§7.2.2.3.1	Shall be solid without perforations.
Exit Signs	§1009		Required at exits and exit access doors. Exception #1: Not required in rooms or areas that require only one exit. Exception #2: Not required at main exterior exit doors that are clearly identifiable (as approved by AHJ). Exception #3: Within group R-2 dwelling units.
Handrails	§1012		
Handrail requirement	§1009.12		Shall have handrails on each side. Exception #2: Within dwelling units and spiral stairs one side permitted. Exception #3: Decks that have a single change in elevation where the landing depth on each side of the change in elevation isgreater than what is required do not require handrails. Exception #5: Changes in room elevation of 3 or fewer risers within R-2 dwelling units do not require handrails.
		§7.2.2.4.1.1	Egress stairs shall have handrails both sides.
		§7.2.2.4.1.6	Existing stairs & stairs within dwelling units shall be permitted to have handrail one side.
Height	§1012.2		34" - 38" above nosing
		§7.2.2.4.4.1	34" - 38" above nosing (30"-38" in existing stairs).
Graspability	§1012.3		In group R-2 shall be Type-I with 1 1/4" - 2" diameter or equivalently graspable.
			Handrail graspable surface shall be continuous without interruption by newel posts or
Continuity	§1012.4		other obstructions. Exception #1: Within dwelling units permitted to be interrupted by newel post.
		§7.2.2.4.4.2	Handrails shall continue for full flight of stairs. Inside handrails shall be continuous at landings.
Handrail extentions	§1012.6		Handrail extensions shall return to wall or be continuous. Shall extend 12" at top riser & one tread beyond bottom riser. Exception #1: within dwelling unit permitted to extend only to top and bottom riser.

Code Criteria	IBC 2009	NFPA-101 2009	Findings
		§7.2.2.4.4.9	New handrails shall return to wall or floor or terminate in newel post.
		§7.2.2.4.4.10	Within dwelling unit handrail shall extend to directly above top & bottom riser.
			In other than dwelling units non-continuous handrails shall extend 12" beyond top riser &
		§7.2.2.4.4.11	continue to slope one tread beyond bottom riser.
Guards	§1013		Required at open sided walking surfaces >30" above floor or grade below.
	54042.2		Min. 42" above walking surface. Exception #1: Within R-2 dwelling units guards on open
Height	§1013.2		sides of stairs not <34"
		§7.2.2.4.5.2	Not less than 42" high. (Ex'g not less than 36").
On an in a Line it at in a	54042.2		Shall not allow passage of 4" sphere. Exception #1: 4 3/8" from 36"-42" above floor.
Opening Limitations	§1013.3		Exception #2: 6" at stair riser. Exception #3: 4 3/8" sphere within R-2 dwelling unit.
		§7.2.2.4.5.3	4" sphere not pass to 34" height. 6" at stair riser.
Exit and Exit Access	§1014		
			Egress from a room or space shall not pass through adjoing or intervening rooms or areas,
Egress through intervening spaces	§1014.2.1		except where such areas and the area served are accessory to one or the other and
			provide a discernible path of egress travel.
	§1014.2.3		Egress from dwelling units shall not pass through other sleeping areas or bathrooms.
	5101424		Egress not pass through kitchens or storage rooms. Exception #1: Not prohibited through
	§1014.2.4		kitchen area serving adjoining rooms constituting part of same dwelling unit.
			Corridors shall provide exit access without passing through any intervening rooms other
Arrangement of means of egress		§7.5.1.2	than corridors, lobbies, and other spaces permitted to be open to the corridor, unless
		provided for in 7.5.1.2.1 and 7.5.1.2.2.	
			Existing corridors that require passage through a room to access an exit shall be permitted
		§7.5.1.2.1	to be used provided that the (1) path of travel is marked in accordance with 7.10 and (2)
			doors to such rooms comply with 7.2.1.
		57.5.4.2.2	Corridors that are not required to be fire rated shall be permitted to discharge into open
		§7.5.1.2.2	floor plan areas.
Exit and exit access doorways	§1015.1		Two exits or exit access doorways required if occupant load exceeds table 1015.1.
	table 1015.1		Group R-2 maximum occupant load for single exit = 10.
			Group B maximum occupant load for single exit = 49.
			Group S maximum occupant load for single exit = 29.
Exit separation distance			The separation distance of the exit doors shall not be less than one half of the length of the
	§1015.2	§7.5.1.3.3	maximum overall diagonal dimension of the area served (one third with sprinklers).
			Exits shall be remotely located from each other and be arranged to minimize the possibility
		§7.5.1.3.1	that more than one has the potential to be blocked by any one fire or other emergency
			condition.
		§7.15.1.3.5	In existing buildings the exits shall be exempt from the diagonal measurement separation
		37.13.1.3.3	distance provided that such exits are remotely located in accordance with Section

Code Criteria	IBC 2009	NFPA-101 2009	Findings
Exit Access Travel Distance	§1016		The maximum length of exist access travel, measured from the most remote point within a
Exit Access Travel Distance	31010		story to an exterior exit door or exit enclosure shall not exceed distances in Table 1016.1
	table 1016.1		Group R-2 = 250 ft. with sprinklers throughout building
			Group B = 300 ft. with sprinklers throughout building
Corridors	§1018		
Corridor rating	§1018.1		Exception #2: 0 HR rating within R-2 dwellling unit
	table1018.1		0 HR rating group R-2 with occupant load <10.
Corridor width	§1018.2		Minimum 44". Exception #2: 36" with occupant load <50.
Dead End Corridors	§1018.4.2		The dead end in a corridor shall not exceed 20' (50' w/ sprinklers).
Number & Continuity of Exits	§1021		
General	§1021.1		All spaces within each story shall have access to minimum number of approved
General	91021.1		independent exits per table 1021.1.
			Exception #4: In group R-2 one means of egress permitted w/ max. occupant load of 20
			where dwelling unit is sprinklered throughout.
Minimum number	table1021.1		Minimum two exits per story for occupant load <500
Number of exits		§30.2.4.1	Every dwelling unit shall have access to at least two separate exits remotely located as per
Number of exits		y50.2.4.1	7.5.1.
Single exit spaces	§1021.2		Occupancies shall be permitted to have single exit if areas served do not exceed the
Single exit spaces	91021.2		limitations of table 1021.2.
		520.2.4.2	Single exit permitted if: (1.) Dwelling unit has an exit door opening directly to yard at
		§30.2.4.2	grade. (2.) Dwelling unit has direct access to outside stair that complies w/ 7.2.2
			Ground floor apartment allowed to have single exit.
Occupant load & travel distance for	t-bl- 4024 2		Group R-2 basement or first story: 10 occupants 75'. Group R-2 second story: 4 dwelling
single exit	table 1021.2		units 50'
Exit enclosures	§1022.1		1 HR fire rating when connecting 3 stories or fewer.
			Exception #3: Stairways serving & contained within a single residential dwelling unit in
			Group R-2 not required to be enclosed.
Exit passageway width	§1023.2		Occupant load <20 width = 36" (44" width otherwise)
Exterior Stairways	§1026		
General	§1026.2		Shall be permitted as an element of required means of egress in buildings <6 stories.
Open side	§1026.3		Shall be open on at least one side.
Side yards	§1026.4		Open areas adjoining exterior stairs shall be yards, courts, or public ways.
Location	§1026.5		Shall be in accordance with 1027.3
Exit discharge	§1027.1		Shall be directly to grade.
			In addition to mease of egress, provisions shall be made for emergency escape & rescue in
Emergency Escape & Rescue	§1029.1		Group - R occupancies. Basements and sleeping rooms below the 4th story above grade
,,			plane shall have at least one emergency escape & rescue opening.

Code Criteria	IBC 2009	NFPA-101 2009	Findings
			Exception #6: Not required from basements or rooms that have an exit that opens directly
			to yard or exterior exit balcony that opens to a public way.
Minimum size	§1029.2		Minimum net clear opening of 5.7.s.f. (5 s.f. at grade).
Opening constraints	§1029.2.1		Mimimum clear opening height 24" & width 20"
Opening height	§1029.3		Max height not greater than 44" above floor.
Operational constraints	§1029.4		No special keys or tools required.
Means of Escape		§30.2.1.2	Shall comply with 24.2.2.3 (for 1&2 family dwellings).