9. 717.4.2 - <u>Draftstopping</u> in Attic & Concealed Spaces - Not required if protected by sprinkler system 712.3 (Excpt) Dwelling Unit separations of Type IIIB construction type permits rating with with automatic sprinkler system. 8. Section 712 - Horizontal Assemblies
The fire resistance rating for floor/roof assemblies 708.14.1(Excpt 1) not required if street floor protected by automatic sprinkler system 708.14.1(Excpt 4) not required if building protected by automatic sprinkler system 1406.3 - Balconies of combustible construction other than fire retardant wood shall be fire resistant rated for floor construction or shall be Type IV (Heavy Timber-HT 602.4) construction. Aggregate length shall not exceed 50% of the buildings perimeter.
1406.3 (3) - Balconies of Type III construction shall be permitted to be of Type V construction, are not required to be fire resistant rated where sprinkler protection is extended to these areas. 5 Building Height and Areas:
 Group R-2 Sprinklered, Allowable
 Group A-2 Sprinklered, Allowable Three Floors - 4 units per floor = 12 Units Total 3,314 Gross Square feet per floor; Total 9,942 Residential Apartment Dining Areas: indoor movable seating outdoor movable seating 2. Occupant Loads: Table 1004.1.1

Assembly Use - Restaurant (first floor only) 12. Section 907.2 Fire Alarm & Detection Systems 907.2 (Excpt 2) Manual Fire Alarm box not required Official/Fire Dept. Section 906 - Portable Fire Extinguishers
 NFPA10 - Type 2A min. rated required at each floor (75 ft Max.
 Type K Class required in Commercial Kitchen. 10. Section 803 - Wall & Ceiling Finishes: protected by automatic sprinkler system. 708.14.1 - Elevator Lobby Enclosure required if connect 3 Stories. Basement Floor Second Floor Fourth Floor Commercial Kitchen areas Egress capacity Level and Ramps
0.2 inches width per person
Stairways 0.3 inches width per person Section 708 - Shaft Enclosures: Ducts 716.6 listed fire dampers required at each accordance with the *International Mechanical Code*. Occupancy Classification - Mixed Occupancy -Residential Group R-2 -Assembly Group A-2 (Common) (More than 50 persons) Section 705 - Exterior Walls and Balconies Floor Type III B - Exterior Walls -Suite 404 - 7 Suite 403 - 7 Suite 402 - 6 Suite 401 - 6 Suite Suite Suite Suite Suite Suite Suite Suite Storage Rooms - 2,121 SF @ 300 Mechanical & Electric Rooms - 64 e 204 - 723 SF @ 200 SF e 203 - 819 SF @ 200 SF e 202 - 613 SF @ 200 SF e 201 - 479 SF @ 200 SF 304 - 303 - 302 - 301 - 3 BUILDING TOTAL = 135 OCCUPANTS 723 812 610 496 734 797 637 537 3 SF @ 200 2 SF @ 200 3 SF @ 200 5 SF @ 200 1 SF @ 200 7 SF @ 200 7 SF @ 200 7 SF @ 200 Four Stories,
Two Stories, (Commercial 582 sf @ 700 sf @ \$ \$ \$ \$ \$ \$ 2Hour; Noncombustible 420 sf @ 300 SF 643 SF 11 11 11 11 11 11 11 11  $\circ$ shall be not less 9,500 SF/ story. 16,000 SF/ story for Group R-2 unless required Corridors, 15 sf 15 sf 200 sfRestaurant) TOTAL 40 Occupants 4480 4480 4400 4 Occupants
4 Occupants
5 Occupants
Coccupants 1 Occupants
1 Occupants
3 Occupants
2 Occupants Occupants
Cocupants
Cocupants
Coccupants Ш 7 Occupants exit passageways Distance 39 occupants 47 occupants 88 2 occupants Occupants Apart)  $\frac{1}{2}$  Hour fire resistance and δ floor automatic penetration

## 2009 INTERNATIONAL BUILDING CODE (IBC) SUMMARY

Section 1006 - Illumination of Means of Egress ans of egress, including exit discharge shall be illuminated at all times building is occupied. - illumination level shall be not less than 1 footcandle(11lux) at the walking surface.

Automatic smoke detection system inkler system. 907.2.10.2 is not required where facility is equipped with automatic

14. Smoke Alarms
907.2.11 - Smoke alarms complying with UL 217 shall be installed in all R-2 residential occupancial on ceiling or wall outside of each sleeping area in immediate vicinity of bedrooms
b. in each room used for sleeping
c. on each level of Unit
Power source shall be by primary building service.
907.2.11.3 - Smoke alarms shall be interconnect such that one alarm will activate all the alarms within individual Unit. Alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

15. Me

Emergency lighting shall be provided for not less than 1 1/2 hour in the event of power failure.

Emergency lighting facilities shall be so arranged to provide initial illumination that is not less than an average of 1 Ft candle (10.8 Lux) and at any point not less than 0.1 Ft candle (1.1 Lux) measured measured along the path of egress at floor level. Contractor shall space accordingly based on emerg light fixture selected to achieve minimum illumination as described herein.

a) Emergency power system for lighting shall be at least Type 10, Class 1.5, Level 1 in accordance with NFPA 110.

b) Unit equipment and battery system for emergency luminaires shall be listed to UL 924.

c) Emergency lighting shall be either continuously in operation or shall be capable of repeated automatic operation without manual intervention. 16. Em Emerge Emerge an avel

17. Do

or Swing - 1008.1.2 shall swing in the direction of egress travel where serving an occupant load of

18. 1008.1.10 Panic and FIre Exit Hardware

a. Doors serving occupant loads of 50 or more persons in Group A Occupancy shall not be provided with a lock or latch unless it is panic hardware or *fire exit hardware*.
b. Electrical rooms with equipment rated 1,200 amperes or more and over 6 feet wide that contain overcurrent devices or control devices shall be equipped with panic hardware or *fire exit*.
Poors shall swing in the direction of egress travel.
Panic Hardware shall be listed in accordance with UL305.
Fire exit hardware shall be listed in accordance with UL10C and UL305.
The actuating portion of the releasing device shall extend at least one-half of the door leaf with Maximum unlatching force shall not exceed 15 pounds (67N)

of the door leaf width

19. Sta

σср

airways - Section 1009

1. Stairways serving occupant load of less than 50 persons shall have width not less than 36 inches

2. Riser height shall be 7" maximum

3. Treads depth shall be minimum 11"

4. Stair Profile - Radius of curvature at leading edge shall be not greater than 9/16".

5. - Beveling of nosings shall be not exceed 9/16".

6. - The leading edge of nosings of treads shall not project more than 1 1/4" beyond the tread below.

7. - Risers shall be solid & vertical or sloped at angle not more than 30° from vertical.

are not permitted in means egress stairways

e. Winder Treads (1009.4.3) Winder treads with dwelling unit.

20. Hand Stairway:

ails - Section 1009.12 shall have handrails on <u>each</u> side. a. Handrail height, measured above

be

than 38".

b. Handrail graspability (1012.3)

Type I - circular cross section of 1 1/4" to 2" max. If not circular, it shall have perimeter dimension of at least 4" and not greater than 6 1/4" with maximum cross section of 2 1/4".

Type II - handrails with perimeters greater than 6 1/4" with maximum cross section of 2 1/4".

Type II - handrails with perimeters greater than 6 1/4" shall provide graspable finger recesses on each side. Minimum width of profile above the finger recess shall be 1 1/4" to max. of 2 3/4".

(Refer to IBC section 1012.3.2 for finger recess profile dimensions)

c. Handrails shall be continuous, without interruption by newel posts or other obstructions. (1012.4)

d. Handrails shall return to wall, guard or walking surface or shall be continuous to adjacent stair flight. (1012.6)

Handrails shall extend at least 12" beyond top riser and extend minimum one tread depth beyond the bottom riser.

e. Clearance space between handrail and wall surface shall be minimum 1 1/2".

f. Projections into the required width of stairway at each individual handrail shall not exceed 4 ½.

f. Projections into the required width of stairway at each individual handrail shall not exceed 4½.

Section 1012 - Handrail Graspability (See Details of existing handrails)

21. Guards - Section 1013

Guards shall be located along open-sided walk surfaces, stairs, mezzanines, ramps, and landings located more than 30" measured vertically above the adjacent walking surface, adjacent fixed seating or line connecting the leading edges of the treads.

a. Opening limitations-Guards shall not have openings that allow the passage of a 4"Ø sphere.

b. Guards shall be provided where the roof access is within 10 feet of the roof edge with guard not allowing the passage of a 21"Ø sphere.

22. In Buildin buildings four stories or more above grade plane, one stairway shall extend to the roof surface

23. Co

mmon Path of Travel (1014.3-Excp 4)
a. Group R-2 Occupancy permits 12
b. Group S Occupancy permits 100 25 feet maximum with approved, automatic sprinkler feet maximum with occupant load less than 30.

Sp es with One Exit -a. Group R-2 Occ persons with an a Exit - Section 1015.1 (1) Excpt R-2 Occupancy permits one means of egress with an approved, automatic sprinkler system.

24.

 $\boldsymbol{a}$ maximum

25. Two Exits Separation Distance 1015.2.1(2) Exit doors or exit access doorways shall be placed of building being served measured in a straight line a distance apart not less between exit doors. than 1/3

26. Boiler, Two exit do 400,000 Bt iler, Incinerator or Furnace rooms (1015.3) kit doorways are required where room is over 5 0 Btu input capacity. Doos shall be separated 500 S.F. and any fuel-fired equipment exceeds daminimum of 1/2 diagonal dimension of room.

27. Co R Occı Fire Resistant Rating (Table y requires 0.5 fire resistance

Stories with One Exit (Table 1021.2) d Story - Maximum 4 Dwelling Units per floor and 50 foot Travel Distance. equipped with an approved, automatic sprinkler system.

Dead Ends (Table 1018.4) Excpt 2 Occupancy permits 50 foot maximum where equipped with an approved, automatic sprinkler system

Emergency Escape Windows (1029) Excpt 1 ergency escape windows not required if equipped with an approved, automatic sprinkler system

31. Interior Wall & Ceiling Finishes (Table 803.9)Group R-2 Occupancy, equipped with an approved,Exit enclosures and exit passageways

ooms and enclosed spaces

A-2 Occupancy, equipped wi

xit enclosures and exit passag th an approved, eways d, automatic sprinkler system
Class C
Class C
Class C
d, automatic sprinkler system
Class B
Class B
Class B
Class B
Class B

Corridors
Rooms and enclosed spaces

32. Exit Enclosures (Section 1022) Stairways connecting four or more stories shall have fire resiatance rating not less than 2 Hours. Stairways connecting three stories or less shall have fire resiatance rating not less than 1 Hour. The number of stories connected by the exit enclosure shall include any basements.

 Interior Spaces
 a. Habitable spaces and Corridor
 rooms kitchens, storage rooms a
 b. Rooms containing bathtubs, slowented in accordance with the In dors shall have ceiling height of not less than 7'-6". Bathroom, toilets and laundry rooms are permitted 7'-0". showers, spas and similiar bathing fixtures shall be mechanically *International Mechanical Code* (Refer to Mech drawings by others)

or space that is an conspicuous place assembly occupancy shall have occupant load posted with e near main exit [1004.3]

STATUS

STATE FIRE MARSHAL SUBMISSION

CITY SUBMISSION

Marking of Means of Egress (Section 1011) t signs shall be illuminated at all times. e also NFPA Summary Notes on Dwg .LS1)

other than main exterior door clearly identifiable as an exit.

b) Provide Illuminated exit signage (directional) where the continuation of the egress path is not obvious

c) Exit sign placement shall be such that no point in an exit access corridor or passageway is more than 100 feet or the *listed* viewing distance of the sign, whichever is less, from the nearest visible exit sign.

DATE

4-28-17

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Tactile exit signs stating "EXIT" and an exit passageway and at the exit d complying with ICC A117.1 shall be provided adjacent to each door to lischarge. (1011.3).

Visual and Tactile EXIT signage (raised letters) shall be provided at each exit door requiring an exit sign and at accessible restrooms. Character style, case, depth and height shall comply with the American National Standard for Accessible and Usable Buildings and Facilities. (2010 ADA Standards for Accessible Design). Signs shall be located 48" above the finished floor or ground surface, measured from the baseline of the lowest tactile character and 60" maximum above the finished floor, measured from the baseline of the highest tactile character. Locate signs within 18" of the latch side of doors, or when there is no wall space available, at the nearest adjacent wall.

Visual and Tactile signage, accompanied by the International Symbol of Accessibility, shall be provided at accessible toilet facilities. Character case, style, proportions and height shall comply with 703.5. Visual characters shall be 40" minimum above finished floor or ground. Signs shall be located within 18" of the latch side of doors or on the push side of doors with closers and without hold open devices in accordance with 703.4.2.

ttic Area having clear height of over 30" shall have an opening not less than 20" x 30" height of 30" above access area. (Section 1209) and clear

Glazing at all interior walls and e ety glass installation in accordance exterior walls shall meet criteria for ce with section 2406 of the IBC 2009 code. of existing glazing in field (typ)

s than 18" above f 36" horizontally c all verify existing ç finished floor and within 24" of door (less than 60" above of walking surface requires safety glazing. glazing at exterior walls for safety glazing compliance. floor) and

H. LEASURE ARCHITECT, INC.

 b. Safety glazing is not required
 A protective bar 1 1/2" or more
 without contacting the glass, is d for the following installation: ₃ in height capable of withstanding a horizontal load of 50 pounds ₃ installed on the accessible sides of the glazing 34" to 38" above the

38. Energy Efficiency Compliance with the International Energy Conservation Code (IECC) for alterations shall be such that the Compliance with the International Energy Conservation Code (IECC) for alterations shall be such that the existing building is no less conforming to the provisions of this code than the existing building shall conform to the provisions of this Energy Code as they relate to new construction without requiring the unaltered portions to comply with this code.

STREET

SOUTH PORTLAND, MAINE

Q

Residential:
Wood framed Walls - R21
Attic & other - R49
Floor Joist framing - R30 (S
Opaque Doors - Swinging F (Steel g R2.7 floor joists R38) (U-0.37)

Other:
Wood framed Walls Above Grade Mass V
Attic & other - R49
Opaque Doors - Swir -R13.3ci

- R2.7(U-0.36) .3(U-0.43) 7 (U-0.37) SHWARTZ 600-604 PORTLAND, BUILDING CONGRESS MAINE RENOVATIONS STREET

CODE

SUMMARY



