

three inches = one foot
one and one-half inch = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

CODE REQUIREMENT NOTES:

1. JURISDICTION: DEPARTMENT OF VETERANS AFFAIRS
2. APPLICABLE CODES AND STANDARDS

LIFE SAFETY CODE:	NFPA 101 2009 EDITION
BUILDING:	2006 INTERNATIONAL BUILDING CODE (IBC)
MECHANICAL:	2006 INTERNATIONAL MECHANICAL CODE (IMC)
PLUMBING:	2006 INTERNATIONAL PLUMBING CODE (IPC)
ELECTRICAL:	2008 NATIONAL ELECTRICAL CODE (NFPA 70)
BARRIER FREE DESIGN:	UNIFORM FEDERAL ACCESSIBILITY STANDARD (UFAS);
NATURAL GAS:	2003 INTERNATIONAL FUEL GAS CODE (IFGC);

3. OCCUPANCY:
- NFPA 101 – HEALTHCARE (NFPA101 – 6.1.5)
- IBC – INSTITUTIONAL I–2 NURSING HOME

4. CLASSIFICATION OF REHABILITATION WORK:
- RECONSTRUCTION (NFPA 101 – 43.2.2.1.4)

5. HAZARD CLASSIFICATION:
- ORDINARY HAZARD (NFPA 101 – 6.2.2.3)

6. CONSTRUCTION TYPE:
- NFPA 101 – TYPE II(111), POSSIBLY TYPE II(222) (NFPA 220 – 4.3)
- IBC – TYPE II–A, POSSIBLY TYPE I–B

7. FIRE RESISTANCE RATING (NFPA 220 TABLE 4.1.1):

<u>STRUCTURAL ELEMENT RATING</u>	<u>RATING (HR)</u>
STRUCTURAL FRAME	1 HOUR
BEARING WALLS	1 HOUR
NONBEARING WALLS	0
FLOOR CONSTRUCTION (BEAMS & DECK)	1 HOUR
ROOF CONSTRUCTION (BEAMS & DECK)	1 HOUR

8. AUTOMATIC SPRINKLER SYSTEM: REQUIRED THROUGHOUT BUILDING PER NFPA 101 – 18.3.5.1. SYSTEM SHALL UTILIZE QUICK RESPONSE SPRINKLER. SYSTEM SHALL COMPLY WITH NFPA 13.

9. EGRESS REQUIREMENTS:
- a. DOORS SHALL NOT BE LOCKED IN DIRECTION OF EGRESS REQUIRED FOR SAFETY AND/OR SECURITY OF PATIENTS AND UNLESS STAFF READILY UNLOCK DOORS AT ALL TIMES.
- b. 200 FEET MAXIMUM TRAVEL FROM MOST REMOTE POINT TO AN EXIT (NFPA 101 – 18.2.6.2.1)
- c. 50 FEET MAXIMUM TRAVEL TO ROOM EXIT TO CORRIDOR (NFPA 101 – 18.2.6.2.3).
- d. COMMON PATH OF EGRESS TRAVEL – 100 FEET (NFPA 101 – 18.2.5.3)
- e. CORRIDOR WIDTH: 8 FEET. (NFPA 101 – 18.2.3.4)
- f. SLEEPING ROOM DOORS MINIMUM CLEAR WIDTH = 41 1/2 INCHES. (NFPA 101 – 18.2.3.6)
- g. ALL SLEEPING ROOMS SHALL EXIT INTO EXIT ACCESS CORRIDOR. (NFPA 101 – 18.2.5.6.1)
- h. CORRIDORS AND CONNECTED OPEN AREAS SHALL BE SEPARATED FROM ALL OTHER AREAS AND FORM A BARRIER TO PREVENT THE TRANSFER OF SMOKE. (NFPA 101 – 18.3.6.2.3)
- i. CORRIDOR FIRE RATINGS: 1–HOUR FIRE RESISTANCE SEPARATION PROVIDED BUT NOT REQUIRED. (NFPA 101 – 18.3.6.2.2)
- j. CORRIDOR DOORS SHALL BE CONSTRUCTED TO RESIST THE TRANSFER OF SMOKE, HAVE A CLEARANCE BETWEEN THE BOTTOM OF THE DOOR AND THE FLOOR OF LESS THAN ONE INCH, BE SELF LATCHING AND HAVE POSITIVE LATCHING HARDWARE.
- k. PATIENT ROOM DOORS SHALL NOT HAVE DOOR CLOSERS NOR TRANSFER GRILLS.
- l. MAIN WARD DOORS SHALL BE CONSTRUCTED OF SUBSTANTIAL 1 1/2 INCH SOLID–BONDED WOOD–CORE OR CONSTRUCTION TO RESIST FIRE FOR 20 MINUTES, SWING IN OPPOSITE DIRECTIONS, HAVE AUTOMATIC CLOSERS, HAVE DOOR HOLDERS THAT RELEASE UPON ACTIVATION OF THE FIRE ALARM SYSTEM, HAVE A MINIMUM CLEAR WIDTH OF 41 1/2 INCHES, HAVE A CLEARANCE FROM THE BOTOM OF THE DOOR TO THE FLOOR OF LESS THAN 3/4 INCH AND HAVE VISION PANELS OF FIRE RATED OR WIRED GLASS IN AN APPROVED FRAME. (NFPA 101 – 18.3.7.6)

10. PROTECTION OF SPACES:
- a. PROVIDE AUTOMATIC DOOR CLOSERS FOR STORAGE ROOMS BETWEEN 50SF AND 100SF.
- b. PROVIDE 1 HR SEPARATION FOR ROOMS WITH SOILED LINEN IN VOLUME GREATER THAN 64 GAL.
- c. RESIDENTIAL TYPE COOKING FACILITIES SHALL BE PROTECTED BY AN APPROVED HOOD WITH FIRE SUPPRESSION SYSTEM IN ACCORDANCE WITH NFPA 96.

11. INTERIOR FINISHES:
- a. PROVIDE CLASS A INTERIOR WALL AND CEILING FINISHES FOR ALL EXITS AND EXIT ACCESS SPACES. (NFPA 101– 18.3.3)
- b. INDIVIDUAL ROOMS MAY UTILIZE CLASS A OR B FINISHES IF CAPACITY IS UNDER FOUR PERSONS.
- c. CORRIDORS MAY UTILIZE CLASS A OR B FINISHES IF RESTRICTED TO LESS THAN 48 INCHES IN HEIGHT.
- d. PROVIDE CLASS I OR CLASS II FLOOR FINISHES FOR EXITS AND EXIT ACCESS.
- e. PROVIDE CARPETING MEETING REQUIREMENTS OF ASTM D 2859 WHERE INDICATED AND NON–CARPET FINISHES MEETING REQUIREMENT FOR A MINIMUM RADIANT FLUX OF 0.1 w/cm2.

12. FIRE STOPPING: PROVIDE APPROVED FIRE RATED FIRE STOPPING SYSTEM AS TESTED PER ASTM E814 FILLING ALL HOLES IN FIRE RATED PARTITIONS AND AROUND ALL MECHANICAL, PLUMBING, ELECTRICAL PENETRATIONS PENETRATIONS AROUND ALL FLOORS SHALL ALSO BE SEALED WITH FIRE RATED FIRE STOPPING SEE CODE PLANS FOR LOCATION OF FIRE RATED PARTITIONS.

13. FIRE ALARM AND SMOKE DETECTION:
- a. PROVIDE BUILDING AUTOMATIC FIRE ALARM SYSTEM. ALARM SYSTEM SHALL BE VOICE/AUDIBLE ALARM.
- b. PROVIDE MANUAL INITIATION AT EXIT DOORS AND UNIT COORDINATOR STATION. (NFPA 101 – 18.3.4.2.2)
- c. PROVIDE INITIATION OF SYSTEM UPON DETECTION OF FLOW IN AUTOMATIC SPRINKLER SYSTEM. (NFPA 101– 18.3.4.2.1)
- d. PROVIDE COMPLETE AUTOMATIC SMOKE DETECTION IN CORRIDORS. (NFPA 101 – 18.3.4.5.3)
- e. PROVIDE DUCT SMOKE DETECTORS DOWNSTREAM OF AIR FILTER AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SYSTEM SUPPLY AS REQUIRED BY NFPA 90A SECTION 6.4.2.1. DUCT DETECTOR OPERATION SHALL SHUT DOWN THE SUPPLY FAN AND ACTIVATE SIGNAL TO FIRE ALARM SYSTEM. INSTALL PER NFPA 72.
- f. ACTIVATION OF FIRE ALARM SYSTEM SHALL ACTIVATE MAGNETIC HOLD OPENS AND CLOSE DOORS THAT ARE ON THE MAGNETIC HOLD OPENS.

14. MEANS OF EGRESS LIGHTING AND EXIT SIGNS:
- a. ILLUMINATION OF MEANS OF EGRESS SHALL BE CONTINUOUS DURING OCCUPANCY IN ALL CORRIDORS. (NFPA 101 – 18.2.8 & 7.8)
- b. EMERGENCY LIGHTING SHALL BE PROVIDED IN ALL CORRIDORS AND SHALL BE POWERED BY THE LIFE SAFETY BRANCH OF THE POWER SYSTEM AS DESCRIBED IN NFPA 99. (NFPA 101 – 18.2.9 & 7.9)
- c. EXIT SIGNS SHALL BE PROVIDED AND INSTALLED MARKING ALL EXITS SUCH THAT THEY ARE VISIBLE FROM ANY DIRECTION OF EGRESS AS WELL AS AT ANY LOCATION WHERE THE PATH OF EGRESS IS NOT OBVIOUS. (NFPA 101 – 18.2.10 & 7.10)

15. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 10. (NFPA 101 – 18.3.5.10 & 9.7.4.1)

16. OCCUPANT LOAD:
- a. HEALTHCARE OCCUPANCY (NFPA 101 – 7.3.1.2)
1. SLEEPING DEPARTMENTS 120 SF/PERSON

15. HVAC SYSTEM INSTALLATION SHALL COMPLY WITH NFPA 90A. INCLUDING PROVIDING FIRE DAMPERS FOR FIRE PARTITIONS RATED 2 HR OR MORE PER NFPA 90A SECTION 5.3.1.1.

LEGEND SYMBOLS

FIRE CODE SYMBOLS

	OCCUPANT LOAD
	BUILDING AND FLOOR EXITS (NUMERIC = OCCUPANT LOAD)
	ROOM EXITS (NUMERIC = OCCUPANT LOAD)
H	HORIZONTAL EXIT
P	PANIC HARDWARE
SRR	SMOKE RESISTIVE ROOM: PROVIDE SELF–CLOSING DOOR WITH WALLS INSTALLED TIGHT TO FLOOR SLAB/DECK AND DECK ABOVE. SEAL ALL OPEN JOINTS AROUND MECH / ELEC PENETRATIONS SMOKE TIGHT.
SPS	SMOKE PROOF STAIRS
FEC	FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER: PROVIDE MULTIPURPOSE 10 LBS. CLASS 4A.60BC.
FE	FIRE EXTINGUISHER: PROVIDE MULTIPURPOSE 10 LBS. CLASS 4A.60BC. REFER TO LIFE SAFETY DRAWINGS FOR LOCATIONS.
DSP	DRY STAND PIPE – INSTALLED PER NFPA 101 AND NFPA 14.
SP	STAND PIPE – INSTALLED PER NFPA 101 AND NFPA 14.

OCCUPANCY REQUIREMENTS

CALCULATED OCCUPANT LOAD BASED ON USE
ASSUME SLEEPING DEPARTMENTS FOR ENTIRE FLOOR
1 PERSON / 120 GROSS SQUARE FEET
9,477 SQUARE FEET / 120 = 78 OCCUPANTS

LIFE SAFETY REQUIREMENTS

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