(COLOR #3)

2-HOUR FIRE BARRIER

THIS APPLIES TO OCCUPANCY SEPARATION WALLS, HORIZONTAL EXITS, AND STAIRWELLS OF 4 OR MORE STORIES.

WALL CONSTRUCTION: WALL EXTENDS FROM FLOOR TO DECK ABOVE.

DUCTS: ALL DUCT PENETRATIONS ARE PROTECTED BY FIRE DAMPERS.

PENETRATIONS: ALL PENETRATIONS ARE SEALED WITH LISTED FIRESTOP MATERIALS FOR PROTECTING 2-HOUR WALL ASSEMBLIES. PENETRATIONS ARE TO BE FILLED ON BOTH SIDES OF THE WALL.

DOORS: ALL DOORS REQUIRE THE FOLLOWING:
1. LABELED FRAMES (NFPA 80 2-.3.1)
2. LABELED 1 1/2 HOUR DOOR (NFPA 80 1-6.1)
3. MAXIMUM 100 SQ. IN. WINDOW (NFPA 80 1-7.4)
4. POSITIVE LATCHING (NFPA 80 2-4.1.4)
5. SELF CLOSING OR AUTOMATIC CLOSING (NFPA 80 2-4.1.2)
6. COORDINATING DEVICES REQUIRED (NFPA 80 2-4.1.1)
7. MAXIMUM 1/8" GAP (NFPA 80 2-3.1.7)
8. MAXIMUM 3/4" UNDERCUT (NFPA 80 1-11.4)
9. MAXIMUM 16" PROTECTIVE PLATE (NFPA 80 2-4.5)
10. SWING IN PRIMARY DIRECTION OF TRAVEL (NFPA 101 18/19.2.2.2).

(COLOR #4)

1-HOUR FIRE BARRIER

THIS APPLIES TO 1-HOUR RATED ENCLOSURES, HAZARDOUS ROOMS AND STAIRWELLS 3 STORIES OR LESS.

WALL CONSTRUCTION: WALL EXTENDS FROM FLOOR TO DECK ABOVE.

DUCTS: STEEL DUCT PENETRATIONS NOT REQUIRED TO BE PROTECTED BY FIRE DAMPERS.

PENETRATIONS: ALL PENETRATIONS ARE SEALED WITH LISTED FIRESTOP MATERIALS FOR PROTECTING 1-HOUR WALL ASSEMBLIES. PENETRATIONS ARE TO BE FILLED ON BOTH SIDES OF THE WALL.

DOORS: ALL DOORS REQUIRE THE FOLLOWING:
1. LABELED FRAMES (NFPA 80 2-3.1)
2. LABELED 3/4 OR 1-HOUR DOOR (NFPA 80 1-6.1)*
3. MAXIMUM 100 SQ. IN. WINDOW (NFPA 80 1-7.4)
4. POSITIVE LATCHING (NFPA 80 2-4.1.4)
5. SELF CLOSING OR AUTOMATIC CLOSING (NFPA 80 2-4.1.2)
6. COORDINATING DEVICES REQUIRED (NFPA 80 2-4.1.1)
7. MAXIMUM 1/8" GAP (NFPA 80 2-3.1.7)
8. MAXIMUM 3/4" UNDERCUT (NFPA 80 1-11.4)
9. MAXIMUM 16" PROTECTIVE PLATE (NFPA 80 2-4.5)
10. SWING IN PRIMARY DIRECTION OF TRAVEL (NFPA 101 18/19.2.2.2).

* 1-HOUR DOORS ARE REQUIRED IN STAIRWELLS THAT ARE 3 STORIES OR LESS.

(COLOR #5)

30 MINUTE SMOKE BARRIER

THIS APPLIES TO EXISTING SMOKE BARRIER WALLS..

WALL CONSTRUCTION: WALL EXTENDS FROM FLOOR TO DECK ABOVE.

DUCTS: ALL DUCT PENETRATIONS ARE PROTECTED BY SMOKE DAMPERS. SMOKE DAMPERS ARE NOT REQUIRED WHERE ADJACENT SMOKE COMPARTMENTS ARE PROTECTED BY QUICK RESPONSE SPRINKLERS THROUGHOUT EACH COMPARTMENT.

PENETRATIONS: ALL PENETRATIONS ARE SEALED WITH LISTED FIRESTOP MATERIALS FOR PROTECTING 1 HOUR ASSEMBLIES.

DOORS: ALL DOORS REQUIRE THE FOLLOWING:
1. NON-LABELED FRAME (NFPA 101 19.3.7.5).
2. LABELED 20 MINUTE DOOR OR SOLID WOOD CORE (NFPA 101 19.3.7.5)
3. MAXIMUM 1296 SQ. IN. WINDOW (NFPA 101 19.3.6.3.8)
4. SELF CLOSING OR AUTOMATIC CLOSING (NFPA 101 19.3.7.6)
5. COORDINATING DEVICES REQUIRED (NFPA 101 19.3.6.3.8)
6. MAXIMUM 1/8" GAP (NFPA 101 19.3.6.3.1)
7. MAXIMUM 1" UNDERCUT (NFPA 101 19.3.6.3.1)
8. MAXIMUM 48" PROTECTIVE PLATE (NFPA 101 19.3.7.5)
9. SWING IN ANY DIRECTION OF TRAVEL (NFPA 101 19.3.7.6)

(COLOR #1)

2-HOUR FIRE AND SMOKE BARRIER

THIS APPLIES TO OCCUPANCY SEPARATION WALLS, HORIZONTAL EXITS, AND STAIRWELLS OF 4 OR MORE STORIES. THIS COMBINATION WALL IS WHERE A PORTION OF THE 2-HOUR RATED WALL IS ALSO PART OF THE SMOKE WALL.

WALL CONSTRUCTION: WALL EXTENDS FROM FLOOR TO DECK ABOVE.

DUCTS: ALL DUCT PENETRATIONS ARE PROTECTED BY COMBINATION FIRE AND SMOKE DAMPERS. SMOKE DAMPERS ARE NOT REQUIRED WHERE ADJACENT SMOKE COMPARTMENTS ARE PROTECTED BY QUICK RESPONSE SPRINKLERS THROUGHOUT EACH COMPARTMENT.

PENETRATIONS: ALL PENETRATIONS ARE SEALED WITH LISTED FIRESTOP MATERIALS FOR PROTECTING 2-HOUR WALL ASSEMBLIES. PENETRATIONS ARE TO BE FILLED ON BOTH SIDES OF THE WALL.

DOORS: ALL DOORS REQUIRE THE FOLLOWING:
1. LABELED FRAMES (NFPA 80 2-3.1)
2. LABELED 1 1/2 HOUR DOOR (NFPA 80 1-6.1)
3. MAXIMUM 100 SQ. IN. WINDOW (NFPA 80 1-7.4)
4. POSITIVE LATCHING (NFPA 80 2-4.1.4)
5. SELF CLOSING OR AUTOMATIC CLOSING (NFPA 80 2-4.1.2)
6. COORDINATING DEVICES REQUIRED (NFPA 80 2-4.1.1)
7. MAXIMUM 1/8" GAP (NFPA 80 2-3.1.7)
8. MAXIMUM 3/4" UNDERCUT (NFPA 80 1-11.4)
9. MAXIMUM 16" PROTECTIVE PLATE (NFPA 80 2-4.5)
10. SWING IN PRIMARY DIRECTION OF TRAVEL (NFPA 101 18/19.2.2.2).

(COLOR #6)

1-HOUR FIRE AND SMOKE BARRIER

THIS APPLIES TO 1-HOUR RATED ENCLOSURES, HAZARDOUS ROOMS, AND NEWLY CONSTRUCTED SMOKE WALLS. THIS COMBINATION WALL IS ALSO USED WHERE A PORTION OF THE 1-HOUR WALL OF A RATED ROOM IS ALSO PART OF A SMOKE WALL.

WALL CONSTRUCTION: WALL EXTENDS FROM FLOOR TO DECK ABOVE.

DUCTS: ALL DUCT PENETRATIONS ARE PROTECTED BY SMOKE DAMPERS. SMOKE DAMPERS ARE NOT REQUIRED WHERE ADJACENT SMOKE COMPARTMENTS ARE PROTECTED BY QUICK RESPONSE SPRINKLERS THROUGHOUT EACH COMPARTMENT.

PENETRATIONS: ALL PENETRATIONS ARE SEALED WITH LISTED FIRESTOP MATERIALS FOR PROTECTING 1-HOUR FIRE AND SMOKE WALL ASSEMBLIES. PENETRATIONS ARE TO BE FILLED ON BOTH SIDES OF THE WALL.

DOORS: ALL DOORS FOR HAZARDOUS ROOMS REQUIRE THE FOLLOWING:
1. LABELED FRAMES (NFPA 80 2-3.1)
2. LABELED 3/4 HOUR DOOR (NFPA 80 1-6.1)
3. MAXIMUM 100 SQ. IN. WINDOW (NFPA 80 1-7.4)
4. POSITIVE LATCHING (NFPA 80 2-4.1.4)
5. SELF CLOSING OR AUTOMATIC CLOSING (NFPA 80 2-4.1.2)
6. COORDINATING DEVICES REQUIRED (NFPA 80 2-4.1.1)
7. MAXIMUM 1/8" GAP (NFPA 80 2-3.1.7)
8. MAXIMUM 3/4" UNDERCUT (NFPA 80 1-11.4)
9. MAXIMUM 16" PROTECTIVE PLATE (NFPA 80 2-4.5)
10. SWING IN PRIMARY DIRECTION OF TRAVEL (NFPA 101 18/19.2.2.2).

ALL DOORS FOR SMOKE BARRIERS REQUIRE THE FOLLOWING:
1. NON-LABELED FRAME (NFPA 101 18.3.7.5)
2. 20 MINUTE OR SOLID WOOD CORE (NFPA 101 18.3.7.5)
3. MAXIMUM 1296 SQ. IN. WINDOW (NFPA 80 13.2.2)
4. POSITIVE LATCHING NOT REQUIRED (NFPA 101 18.3.7.6)
5. SELF CLOSING OR AUTOMATIC CLOSING (NFPA 101 18.3.7.6)
6. MAXIMUM 1/8" GAP (NFPA 101 18.3.7.6.)
7. MAXIMUM 1" UNDERCUT (NFPA 101 19.3.6.3.1)
8. MAXIMUM 48" PROTECTIVE PLATE (NFPA 101 18.3.7.5)
9. SWING IN ANY DIRECTION (NFPA 101 18.3.7.5)

(COLOR #230)

EXISTING HAZARDOUS ROOMS

WALL CONSTRUCTION: HAZARDOUS ROOMS:
WALLS ONLY NEED TO GO UP TO THE DROP CEILING IF SPRINKLERED
OR
UP TO THE DECK ABOVE IF THERE IS NO CEILING IN THE SPRINKLERED ROOM.

DUCTS: STEEL DUCT PENETRATIONS ARE NOT REQUIRED TO BE PROTECTED BY FIRE DAMPERS OR SMOKE DAMPERS.

EXISTING HAZARDOUS ROOMS:
NO REQUIREMENTS FOR PENETRATIONS ABOVE THE CEILING IF SPRINKLERED. IF THE SPACE IS NON-SPRINKLERED, THEN THE WALL NEEDS TO GO TO THE DECK ABOVE.

DOORS: EXISTING HAZARDOUS ROOMS:
1. NON-LABELED FRAME (NFPA 101 19.3.7.5)
2. 20 MINUTE OR SOLID WOOD CORE (NFPA 101 19.3.7.5)
3. MAXIMUM 1296 SQ. IN. WINDOW (NFPA 101 19.3.6.3.8)
4. POSITIVE LATCHING NOT REQUIRED (NFPA 101 19.3.6.3.2)
5. SELF CLOSING OR AUTOMATIC CLOSING (NFPA 101 19.3.2.1)
6. MAXIMUM 1/8" GAP (NFPA 101 19.3.6.3.1)
7. MAXIMUM 1" UNDERCUT (NFPA 101 19.3.6.3.1)
8. MAXIMUM 48" PROTECTIVE PLATE (NFPA 101 19.3.2.1)
9. SWING IN ANY DIRECTION

HEALTH CARE OCCUPANCY NON-RATED CORRIDOR DOORS

DOORS: DOORS THAT ARE NOT PART OF A RATED WALL:
1. NON-LABELED FRAME (NFPA 101 19.3.6.3.7)
2. 20-MINUTE OR SOLID WOOD CORE DOOR (NFPA 101 19.3.6.3.1)
3. GLASS DOORS PERMITTED IF SPRINKLERED (NFPA 101 19.3.6.3.8)
4. POSITIVE LATCHING EXCEPT TOILETS, SHOWER AND SINK CLOSETS (NFPA 101 19.3.6.3.2)
5. SELF-CLOSING NOT REQUIRED (NFPA 101 19.3.6.3.4)
6. MAXIMUM 1/8" GAP (NFPA 101 19.3.6.3.1)
7. MAXIMUM 1" UNDERCUT (NFPA 101 19.3.6.3.1)
8. MAXIMUM 48" PROTECTIVE PLATE (NFPA 101 19.3.6.3.5)
9. TRANSFER GRILLS NOT PERMITTED EXCEPT TOILETS, SHOWER AND SINK CLOSETS (NFPA 101 19.3.6.4)
10. SWING IN ANY DIRECTION

(COLOR #2)

HEALTHCARE AREA OPEN TO CORRIDOR WITH 24/7 SUPERVISION - NO SMOKE DETECTION REQUIRED.

(COLOR #3)

HEALTHCARE AREA OPEN TO CORRIDOR - SMOKE DETECTION PROVIDED.

(COLOR #2)

SUITES

WALL CONSTRUCTION: SUITE OF ROOMS WITH INTERNAL CORRIDORS OR AISLES THAT ARE NOT PART OF THE EXIT ACCESS CORRIDOR SYSTEM. PATIENT SLEEPING ROOMS OR ANY SUITE THAT INCLUDES PATIENT SLEEPING ROOMS, OF MORE THAN 1000 SQUARE FEET SHALL HAVE NOT LESS THAN 2 EXIT ACCESS DOORS REMOTELY LOCATED FROM EACH OTHER (NFPA 101 18/19.2.5.2).

ANY ROOM OR ANY SUITE OF ROOMS, OTHER THAN PATIENT SLEEPING ROOMS, OR MORE THAN 2500 SQUARE FEET, SHALL HAVE NOT LESS THAN TWO EXIT ACCESS DOORS REMOTELY LOCATED FROM EACH OTHER (NFPA 101 18/19.2.5.3).

SUITES OF ROOMS, OTHER THAN PATIENT SLEEPING ROOMS, SHALL NOT EXCEED 10,000 SQUARE FEET. SUITES OF SLEEPING ROOMS SHALL NOT EXCEED 5,000 SQUARE FEET. NO EXIT SIGNS OUTSIDE THE SUITE AREAS DIRECT OCCUPANTS INTO THE SUITE TO REACH A MEANS OF EGRESS OR EXIT (NFPA 101 18/19.2.5.6 AND 18/19.2.5.7).

DUCTS: NO REQUIREMENTS

PENETRATIONS: NO REQUIREMENTS

DOORS: DOORS OPENING TO THE CORRIDOR DO NOT NEED TO BE SELF CLOSING OR AUTOMATIC CLOSING (NFPA 101 18/19.3.6.3.4).

DOORS OPENING INTERNAL TO THE SUITE CORRIDORS, PASSAGES AND AISLES ARE NOT REQUIRED TO COMPLY WITH LIFE SAFETY CODE REQUIREMENTS FOR MEANS OF EGRESS CORRIDOR DOORS (NFPA 101 18/19.2.5.1).

NOTE: ALL CODE REFERENCES ARE PER THE 2000 EDITION OF NFPA 101 LIFE SAFETY CODE AND THE OTHER APPLICABLE CODES. FEDERAL FACILITIES FOLLOW 2012 LIFE SAFETY CODE.

THIS DRAWING CONTAINS INFORMATION CONVEYED BY COLOR. PLOT IN COLOR.

Revisions / Date	Dept. of Veterans Affairs VA Medical Center 1100 North College Fayetteville, AR 72703	FP&C CONSULTANTS, INC. 1520 MAIN STREET INDIANAPOLIS, IN 46224 (317)486-5188 FIRE PROTECTION & CODE CONSULTANTS	Drawing Title: FIRE/SMOKE BARRIER DESCRIPTIONS	Client Project No. / Building No.	Contract No. / AutoCAD File Name: X-1 DESCRIPTION	Project Title: STATEMENT OF CONDITIONS	Designed By: FVO Checked By: FVO Drawn By: DN Date: 7/01/13 Location: VA MEDICAL CENTER FAYETTEVILLE, ARKANSAS Scale: N.T.S.	Drawing No.: X-1 Sht. 1 Of 13
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