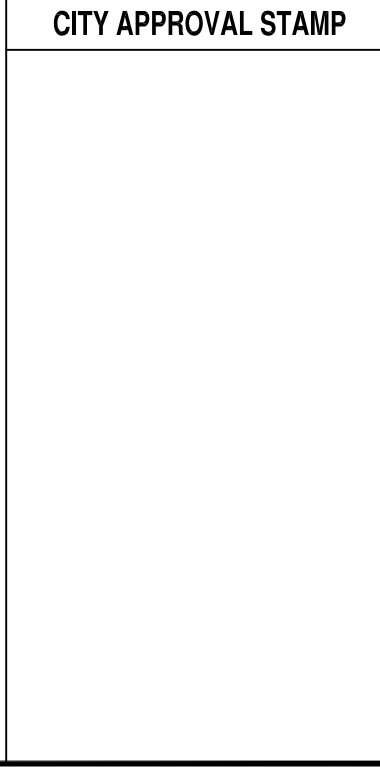


FIRE-RATED WALL ASSEMBLIES							
MK	DETAIL	RATING				#	DESCRIPTION
		FIRE GA OR UL FILE NO.	SOUND	THICKNESS	WEIGHT (Approx.)		
1		1-HR WP 3514	35-39 STC G & H NG-246FT, 7-2-65	4 3/4"	7 PSF	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	WOOD STUD WALL - 2 X 4 NOM. MIN. U.O.N. ON PLAN, SPACED 16 IN. O.C. WITH SINGLE SOLE AND DOUBLE TOP PLATES, EFFECTIVELY FIRESTOPPED AROUND HOLES. COVER JOINTS & NAILHEADS, NOT SHOWN, WITH FIBER TAPE AND JOINT COMPOUND. 5/8 IN. THICK, 4 FT WIDE TYPE X GYPSUM BOARD WITH TAPERED EDGES, APPLIED PARALLEL OR RIGHT ANGLES WITH STUDS; FASTEN PANELS WITH 1 1/4" TYPE W DRYWALL SCREWS 12" O.C. STAGGER PANEL JOINTS 16" ON OPPOSITE FACES OF WALL. VINYL, DRY OR PREMIXED JOINT COMPOUND, NOT SHOWN, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS. RESILIENT CHANNELS, 1/2" THICK, 25 MSG GALVANIZED STEEL WITH 1/8" THICK SUPER SOUNDPROOFING TAPE, APPLIED AT RIGHT ANGLES TO STUDS, SPACED 24 IN. O.C. VERTICALLY; ATTACH FLANGE PORTION TO ONE SIDE OF STUDS WITH 1-1/4 IN. LONG DIAMOND SHAPED POINT, DOUBLE LEAD PHILLIPS HEAD STEEL TYPE S DRYWALL SCREWS. THE RESILIENT CHANNELS ARE TO HAVE 3/8" WIDE SLOTS 3" LONG, SPACED 4 IN. O.C. 3/8 IN. BEAD OF NON-HARDENING TYPE ACOUSTICAL SEALANT TO SEAL OPENINGS WHERE WALL MEETS THE CEILING, FLOOR, AND ADJOINING WALLS, TO THE PERIMETER OF ALL CUTOUTS INCLUDING THOSE FOR OUTLET BOXES, PIPES, CONDUIT, VENTS, ETC. AND TO THE JOINTS BETWEEN PANELS. APPLY SEALANT TO ALL OPENINGS IN ELECTRICAL JUNCTION BOXES INCLUDING THOSE WHERE THE WIRES ENTER THE BOX. ALL ELECTRICAL JUNCTION BOXES ARE TO BE PLASTIC AND HORIZONTALLY OFFSET BY AT LEAST ONE WALL STUD ON OPPOSITE SIDES OF THE WALL. (NOT SHOWN) 5/8" DENSGLASS GOLD FIREGUARD TYPE X EXTERIOR SHEATHING APPLIED PARALLEL OR AT RIGHT ANGLES TO 2X4 WOOD STUDS WITH 1-3/4" GALVANIZED ROOFING NAIL AT 7" O.C. TO ALL FRAMING MEMBERS. 7/8" PORTLAND CEMENT PLASTER; INSTALL ACCORDING TO UBC, WITH EXPANSION JOINTS (100 SQ. FT. MAX. SEE ELEVATIONS) OVER METAL LATH AND WATER-PROOF PAPER. 1 7/8" IN. THICK MIN. GLASS FIBER SOUND INSULATION. 2 1/2" IN. STEEL CAVITY SHAFT CT STUD BETWEEN PANELS; STUDS TO BE 20 GA, HEIGHT LESS OR EQUAL TO 15'-6". 1 IN. X 24" DENSGLASS ULTRA SHAFT GUARD PANEL INSERTED BETWEEN 2 1/2" FLOOR AND CEILING J RUNNERS WITH T SECTION CT STUDS. 1/2 IN. DENS ARMOR FIREGUARD (TYPE X) OR TOUGHROCK FIREGUARD (TYPE X) GYPSUM BOARD APPLIED PARALLEL TO STUDS WITH VERTICAL JOINTS MIDWAY BETWEEN STUDS AND LAMINATED TO PANELS WITH 4" WIDE STRIPS OF TAPING COMPOUND AT WALLBOARD PERIMETER AND VERTICAL CENTERLINE. 1 1/2" TYPE G DRYWALL SCREWS 24" O.C. LOCATED 1 1/2" BACK FROM WALLBOARD EDGES AND AT VERTICAL CENTERLINE. 1/4 IN. BEAD OF ACOUSTICAL SEALANT IS TO BE APPLIED TO THE JOINT BETWEEN THE FLOOR AND BOTTOM TRACK AND THE CEILING AND THE TOP TRACK. (NOT SHOWN) METAL STUDS, 3 5/8 IN. MINIMUM AT 24" O.C., SEE STRUCTURAL DRAWINGS FOR SIZE AND GAGE.
2		1-HR WP 3240 OR 3241	50-54 STC BBN 760903	5-3/8" PLUS STR. SHEATHING	7.0 PSF PLUS STR. SHEATHING	15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	BASE LAYER: 1/2 IN. DENS ARMOR FIREGUARD (TYPE X) OR TOUGHROCK FIREGUARD (TYPE X) GYPSUM BOARD APPLIED AT RIGHT ANGLES TO STUDS WITH 1" TYPE S DRYWALL SCREWS 24" O.C. FACE LAYER: 1/2" DENS ARMOR FIREGUARD (TYPE X) OR TOUGHROCK FIREGUARD (TYPE X) GYPSUM BOARD APPLIED PARALLEL TO STUDS WITH 1 5/8" TYPE S DRYWALL SCREWS 12" O.C. 5/8" THICK LAYER, PROPRIETARY (SEE NOTE a) TYPE X GYPSUM WALLBOARD OR VENEER BASE APPLIED PARALLEL TO CHANNELS WITH 1" TYPE S DRYWALL SCREWS AT 12" O.C.. END JOINTS BACKBLOCKED WITH RESILIENT CHANNELS. 5/8" THICK LAYER, PROPRIETARY (SEE NOTE a) TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO STUDS WITH 1 1/4" TYPE W DRYWALL SCREWS AT 12" O.C. STAGGER VERTICAL JOINTS OF DRYWALL 48" WITH OPPOSITE FACE OF WALL. 3 1/2" MIN. FACED MINERAL FIBER BATT INSULATION (PLACE OPEN FACE OF INSULATION BLANKET TOWARD RESILIENT CHANNEL SIDE OF STUD SPACE, WHERE R.C. ARE USED). SHEAR WALL SHEATHING, SEE STRUCTURAL DRAWINGS FOR SPECIFICATIONS AND WHERE OCCURS. WOOD STUD WALL- 3 X 4 NOM. MIN. U.O.N. ON PLAN, SPACED 16" O.C. STAGGERED 8" O.C. ON 2X6 SINGLE SOLE U.O.N. AND DOUBLE TOP PLATES, EFFECTIVELY FIRESTOPPED AROUND HOLES. 5/8" APA T1-11 WOOD SIDING WITH 8d GALV. NAILS AT 6" O.C. (EDGES) AND 12" O.C (FIELD). CAST IN PLACE CONCRETE WALL. SOLID GROUTED CMU WALL. 5/8 IN. THICK, 4 FT WIDE TYPE X GYPSUM BOARD WITH TAPERED EDGES, APPLIED PARALLEL OR RIGHT ANGLES WITH STUDS; FASTEN PANELS WITH 1" TYPE S DRYWALL SCREWS 8" O.C. AT VERTICAL JOINTS, 12" O.C. AT FLOOR AND CEILING AND FIELD. STAGGER PANEL JOINTS 24" ON OPPOSITE FACES OF WALL.
3		4-HR UBC TABLE 7-B.6	-	8" NOMINAL (7 5/8") MEDIUM WEIGHT BLOCK SOLID GROUTED	80 PSF	FOOTNOTES a. PROPRIETARY PRODUCTS US GYPSUM COMPANY - 5/8" SHEETROCK BRAND GYPSUM PANELS, FIRECODE C CORE G-P GYPSUM - 5/8" GYPROC FIREGUARD C CELOTEX CORPORATION - 5/8" FI-ROK PLUS	
4		1-HR ESTIMATED BASED ON WP 3240 OR 3241	50-54 STC BBN 760903 SEE DTL 2	7-3/8" PLUS STR. SHEATHING	7.8 PSF PLUS STR. SHEATHING		
5		1-HR UL U337, U305	50-54 STC RAL-TL77-138	6-1/8"	16.3 PSF PLUS STR. SHEATHING		
6		1-HR UL U337, U305	50-54 STC RAL-TL77-138	5-3/8"	9.0 PSF PLUS STR. SHEATHING		
7		1-HR UL U305	-	6-5/8"	7.5 PSF		
8		4-HR	58-60 STC	8" MIN.	-		
9		1-HR UL U305	-	6-5/8"	7.5 PSF PLUS STR. SHEATHING		
10		2-HR WP 7052 ALT. DOMTAR 620 AS PER ICBO ES ER-2541	50-54 STC	4"	11 PSF		
11		1-HR WP 1072	45-49 STC	4 7/8"	6 PSF		
12		1-HR UL465	50 STC RAL-TL89-157	5-3/4"	7.5 PSF		
13		1-HR WP 3514	35-39 STC G & H NG-246FT, 7-2-65	4 3/4"	7 PSF		
14		1-HR UL U305	50-54 STC RAL-TL77-138	1'-1 1/2"	8 PSF PLUS STR. SHEATHING EA. SIDE		

[illegible]