

**W08 BEARING/NON-BEARING CMU EXT. WALL, 2-HOUR (ONE-HOUR REQ'D)**  
 DESIGN NUMBER - UL - U905  
 STC SOUND - N/A

- CONCRETE BLOCKS - CLASSIFICATION D-2 (2 HR)
- MORTAR - BLOCKS LAID IN FULL BED OF MORTAR, NOM. 3/8 IN. THICK, OF NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS STAGGERED. SEE SPECIFICATION SECTION 'UNIT MASONRY' FOR MORTAR AND GROUT REQUIREMENTS.
- INSULATION - 2" RIGID FOAM INSULATION ATTACHED WITH ALUM. Z-CLIPS @ 4'-0" O.C.
- WOOD STRUCTURAL PANEL SHEATHING -- MIN. 7/16 IN. THICK, 4 FT WIDE WOOD STRUCTURAL PANELS, MIN. GRADE "C-D" OR "SHEATHING" INSTALLED WITH LONG DIMENSION OF SHEET (STRENGTH AXIS) OR FACE GRAIN OF PLYWOOD PARALLEL WITH OR PERPENDICULAR TO STUDS. VERTICAL JOINTS CENTERED ON STUDS. ATTACH THROUGH CMU WITH 6" LONG TAPCONS.
- SIDING -- CEMENT BOARD EXT. SIDING WITH 5" EXPOSURE. BLIND NAILED WITH NO. 11 x 1-3/4" LONG CORROSION-RESISTANT ROOFING NAILS SPACED AT 17" MAX.
- FACE OF FOUNDATION WALL BELOW SHEATHING AND SIDING OVERHANG FOUNDATION, TYP.
- BASE - SEE FINISH SCHEDULE
- UNDERSIDE OF STRUCTURE
- TOP OF STRUCTURE

8 | -WALL 08 -CMU WALL/ FIBER CEMENT CLAPBOARD  
 1 1/2" = 1'-0"

**W06A W06B NON-RATED NON-BEARING**  
 DESIGN NUMBER - N/A  
 STC SOUND - N/A

3 5/8" 6"

- CEILING RUNNER - CHANNEL-SHAPED TOP TRACK, MIN. 3 5/8" WIDE BY 1 1/4" DEEP, FABRICATED FROM NO. 20 MSG GALV STEEL. TOP TRACK SITS INSIDE VERTICALLY SLOTTED HEAD TRACK. ATTACHED TO CEILING WITH FASTENERS, 24" O.C. MAX. GYPSUM AND VERTICAL STUDS FASTENED TO TOP TRACK ONLY
- STEEL STUDS - CHANNEL SHAPED 25 MSG STEEL 3 5/8" STUDS SPACED MAX. 24" O.C. STUDS TO BE CUT 3/4" LESS THAN ASSEMBLY HEIGHT
- GYPSUM BOARD - (1) LAYER 5/8" GYP. BD. APPLIED PERPENDICULAR TO FRAMING WITH 1" TYPE S STEEL SCREWS SPACED 8" O.C. USE MOISTURE RESISTANT GYPBOARD ON ALL BATHROOM WALLS - TYPICAL ALL BATHROOMS
- BLOCKING - (NOT SHOWN) WOOD BLOCKING AS NEEDED
- TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
- BASE - SEE FINISH SCHEDULE
- UNDERSIDE OF STRUCTURE
- TOP OF STRUCTURE
- FLOOR RUNNER - CHANNEL-SHAPED RUNNERS, MIN. 3 5/8" WIDE W/ DEEP LEGS, FABRICATED FROM NO. 20 MSG GALV STEEL. ATTACHED TO FLOOR WITH FASTENERS, 24" O.C. MAX.

6 | WALL 06A&B - NON-RATED ONE-SIDED PARTITION  
 1 1/2" = 1'-0"

**LABEL 1 HR 1 HR NON-BEARING PARTITION**  
 DESIGN NUMBER - U419  
 SOUND - N/A

3 5/8" 6"

- STUDS - CHANNEL-SHAPED, MIN 3-5/8" WIDE BY 1-1/4" DEEP WITH 5/16" FOLDED BACK RETURN FLANGE LEGS. FABRICATED FROM NO. 25 MSG GALV STEEL. MAX STUD SPACING 24" O.C. STUDS TO BE CUT 1" LESS THAN ASSEMBLY HEIGHT. NOTE: WALL TYPE 'B' USES 6" STUDS IN PLACE OF 3-5/8" STUDS.
- CEILING RUNNER - CHANNEL-SHAPED TOP TRACK, MIN. 3 5/8" WIDE BY 1 1/4" DEEP, FABRICATED FROM NO. 20 MSG GALV STEEL. TOP TRACK SITS INSIDE VERTICALLY SLOTTED HEAD TRACK. ATTACHED TO CEILING WITH FASTENERS, 24" O.C. MAX. GYPSUM AND VERTICAL STUDS FASTENED TO TOP TRACK ONLY
- TYPE X GYP BOARD - 5/8 IN. THICK, 4 FT WIDE. GYPSUM BOARD SECURED TO STUDS WITH 1" LONG TYPE S-12 STEEL SCREWS SPACED 12" O.C. GYPSUM BOARD JOINTS ORIENTED VERTICALLY. LOCATED OVER STUDS AND OFFSET BETWEEN LAYERS. GYP HELD UP FROM FLOOR MIN 1/4" TO 3/8" FOR INSTALLATION OF ACOUSTIC SEALANT - TYPICAL.
- CAULKING AND SEALANTS - A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE PARTITION PERIMETER FOR SOUND CONTROL, BOTH SIDES OF WALL.
- BLOCKING - (NOT SHOWN) WOOD BLOCKING AS NEEDED
- TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
- BASE - SEE FINISH SCHEDULE
- UNDERSIDE OF STRUCTURE
- FLOOR RUNNER - CHANNEL-SHAPED RUNNERS, MIN. 3 5/8" WIDE W/ DEEP LEGS, FABRICATED FROM NO. 20 MSG GALV STEEL. ATTACHED TO FLOOR WITH FASTENERS, 24" O.C. MAX.

4 | WALL 04A&B - NON RATED PARTITION  
 1 1/2" = 1'-0"

**LABEL 1 HR 1 HR NON-BEARING FIRE BARRIER**  
 DESIGN NUMBER - UL U451 1 HOUR FIRE  
 54 STC SOUND  
 SOUND TEST: RAL-TL83-216

3 5/8" 6"

- STUDS - CHANNEL-SHAPED, MIN 3-5/8" WIDE BY 1-1/4" DEEP WITH 5/16" FOLDED BACK RETURN FLANGE LEGS. FABRICATED FROM NO. 25 MSG GALV STEEL. MAX STUD SPACING 24" O.C. STUDS TO BE CUT 1" LESS THAN ASSEMBLY HEIGHT. NOTE: WALL TYPE 'B' USES 6" STUDS IN PLACE OF 3-5/8" STUDS.
- CEILING RUNNER - CHANNEL-SHAPED TOP TRACK, MIN. 3 5/8" WIDE BY 1 1/4" DEEP, FABRICATED FROM NO. 20 MSG GALV STEEL. TOP TRACK SITS INSIDE VERTICALLY SLOTTED HEAD TRACK. ATTACHED TO CEILING WITH FASTENERS, 24" O.C. MAX. VERTICAL STUDS FASTENED TO TOP TRACK ONLY
- RESILIENT CHANNEL - 25 MSG GALV. STEEL RESILIENT CHANNELS SPACED VERTICALLY 24 IN O.C. MAX. FLANGE PORTION ATTACHED TO EACH INTERSECTING STUD WITH 1/2 IN. LONG TYPE S-12 PANHEAD STEEL SCREW
- TYPE X GYP BOARD - 5/8 IN. THICK, 4 FT WIDE. SCREW ATTACHED ONE SIDE TO RESILIENT CHANNELS. BASE LAYER WITH 1 IN. LONG TYPE S STEEL SCREWS SPACED MAX 12 IN. O.C. GYPSUM BOARD ON DIRECT ATTACHED SIDE SECURED TO STUDS WITH 1" LONG TYPE S-12 STEEL SCREWS SPACED 12" O.C. GYPSUM BOARD JOINTS ORIENTED VERTICALLY. LOCATED OVER STUDS AND OFFSET BETWEEN LAYERS. GYP HELD UP FROM FLOOR MIN 1/4" TO 3/8" FOR INSTALLATION OF ACOUSTIC SEALANT - TYPICAL.
- SOUND ATTENUATION BATTS - FIBERGLASS BATT WITH UL CLASS AS TO SURF BURNING CHARACTERISTICS AND OR FIRE RESISTANCE REQUIRED
- JOINT TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED TO JOINTS AND SCREW HEADS, PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
- CAULKING AND SEALANTS - A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE PARTITION PERIMETER FOR SOUND CONTROL, BOTH SIDES OF WALL.
- BLOCKING - (NOT SHOWN) WOOD BLOCKING AS NEEDED FOR OTHER TRADES. GC TO COORDINATE.
- SCHEDULED BASE - SEE FINISH SCHEDULE
- UNDERSIDE OF STRUCTURE
- TOP OF STRUCTURE
- FLOOR RUNNER - CHANNEL-SHAPED RUNNERS, MIN. 3 5/8" WIDE W/ DEEP LEGS, FABRICATED FROM NO. 20 MSG GALV STEEL. ATTACHED TO FLOOR WITH FASTENERS, 24" O.C. MAX.

2 | WALL 02 - CORRIDOR NON-BEARING WALL  
 1 1/2" = 1'-0"

**LABEL 2 HR 2 HR BEARING FIRE BARRIER**  
 DESIGN NUMBER - UL - U905  
 STC SOUND - N/A

- CONCRETE BLOCKS - CLASSIFICATION D-2 (2HR) 8" NOM. THICKNESS
- MORTAR - BLOCKS LAID IN A FULL BED OF MORTAR, NOM. 3/8 IN THICK, OF NOT LESS THAN 2 1/4 AND NOT MORE THAN 3 1/2 PARTS CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS STAGGERED.
- REINFORCING - SEE STRUCTURAL
- UNDERSIDE OF STRUCTURE
- TOP OF STRUCTURE

7 | WALL 07 - CMU  
 1 1/2" = 1'-0"

**LABEL 2 HR W05 BEARING 2HR RATED EXTERIOR WALL**  
 DESIGN NUMBER - GA FILE NO. WP 8416  
 STC SOUND - N/A  
 R-21

- WOOD FRAMING - WOOD STUDS, NOM. 2 IN BY 6 IN., DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR STUD LAYOUT PLATING, AND FASTENERS
- INSULATION - CLOSED CELL SPRAY FOAM INSULATION BETWEEN JOISTS TO R21
- GYPSUM BOARD - INTERIOR BASE LAYER 5/8" PROPRIETARY TYPE X GLASS MAT GYPSUM SUBSTRATE (SHEATHING) APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 2 3/8", 0.113" SHANK, 9/32" HEAD, GALVANIZED ROOFING NAILS 8" O.C.
- GYPSUM BOARD - EXTERIOR FACE LAYER 5/8" PROPRIETARY TYPE X GLASS MAT GYPSUM SUBSTRATE (SHEATHING) APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 2 3/8", 0.113" SHANK, 9/32" HEAD, GALVANIZED ROOFING NAILS 8" O.C. EXTERIOR CLADDING TO BE ATTACHED THROUGH GLASS MAT GYPSUM PANEL TO STUDS.
- AIR/MOISTURE BARRIER - (SEE SPEC.)
- PLASTIC FURRING STRIPS - CORVAENT SV5 FURRING SYSTEM. LOCATE STUDS STRIP VERTICAL STRAPPING CENTERED ON STUDS. ATTACH WITH 1 3/4" LONG CORROSION RESISTANT ROOFING NAILS AS DIRECTED BY MANUFACTURER. (ADDED)
- FIBER CEMENT SIDING - FIBER CEMENT BOARD CLAPBOARD SIDING WITH 5" EXPOSURE. BLIND NAILED W/ NO. 11 x 1 3/4" LONG CORROSION RESISTANT ROOFING NAILS SPACED AT 17" O.C. MAX. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. FIBER CEMENT PANEL SIDING INSTALLED W/ ALUM. EXTRUSION EXPOSED JOINTS (FRY REGLET FOR VERTICAL INSERT & RETAINER). SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- GYPSUM BOARD - INTERIOR BASE LAYER 5/8" PROPRIETARY TYPE X GYPSUM BOARD APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 1 7/8", 0.0915 SHANK, 1/4" HEAD NAILS 6" O.C.
- GYPSUM BOARD - INTERIOR FACE LAYER 5/8" PROPRIETARY TYPE X GYPSUM BOARD APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 2 3/8", 0.113" SHANK, 9/32" HEAD NAILS 8" O.C.
- SEALANT - FULL PERIMETER, BETWEEN ALL DOUBLE TOP PLATES.
- BASE - SEE FINISH SCHEDULE
- SHEATHING - MIN 7/16 IN. THICK, 4 FT WIDE STRUCTURAL PANELS, MIN GRADE "C-D" OR "SHEATHING". INSTALLED W/ LONG DIM OF SHEET (STRENGTH AXIS) OR FACE GRAIN OF PLYWOOD PARALLEL W/ OR PERPENDICULAR TO STUDS. VERTICAL JOINTS CENTERED ON STUDS. HORIZONTAL JOINTS BACKED WITH NOM 2x6 WOOD BLOCKING.
- UNDERSIDE OF STRUCTURE
- TOP OF STRUCTURE

5 | -WALL 05 - WOOD STUD / FIBER CEMENT CLAPBOARD  
 1 1/2" = 1'-0"

**LABEL 1 HR W03 1 HR NON-BEARING FIRE BARRIER**  
 DESIGN NUMBER - UL U469 - 1 HOUR FIRE  
 50-54 STC SOUND - RAL TL06-299, 8-10-06  
 (THIS STC TEST PERFORMED WITH SOUND ATTENUATION BATT - THE SUBSTITUTION OF CELLULOSE MEETS OR EXCEEDS THIS STC RATING)

- CEILING RUNNER - CHANNEL-SHAPED TOP TRACK, MIN. 3 5/8" WIDE BY 1 1/4" DEEP, FABRICATED FROM NO. 20 MSG GALV STEEL. TOP TRACK SITS INSIDE VERTICALLY SLOTTED HEAD TRACK. ATTACHED TO CEILING WITH FASTENERS, 24" O.C. MAX. VERTICAL STUDS AND GYP FASTENED TO TOP TRACK ONLY
- STEEL STUDS - CHANNEL SHAPED, SUPPLIED WITH CUTOUTS, FRICTION-FITTED INTO FLOOR AND CEILING RUNNERS AND SPACED A MAX 24" O.C. STUDS CUT 1/2" LESS THAN ASSEMBLY HEIGHT AND EVENLY STAGGERED BETWEEN THE TWO ROWS OF FLOOR AND CEILING RUNNERS. STUDS FABRICATED FROM MIN. 25 MSG GALV STEEL, MIN 3-5/8" DEEP BY 1-5/8" WIDE WITH 3/8" FOLDED BACK RETURN FLANGE LEGS.
- LATERAL BRACING - (NOT SHOWN) RIGHT-ANGLE SHAPED, SUPPLIED WITH NOTCHES, SPACED 12, 16, OR 24 IN. O.C. FRICTION FITTED TO THE CUTOUTS IN STEEL STUDS, SUPPLIED IN 7/8" BY 7/8" BY 50" LENGTHS. LATERAL BRACING BARS FABRICATED FROM MIN. 25 MSG GALV STEEL. THE BRACING SHALL BE LOCATED A MAX OF 5 FT. O.C. IN ACCORDANCE WITH THE MANUFACTURERS PUBLISHED LITERATURE
- TYPE X GYP BOARD - 5/8 IN. THICK, 4 FT. WIDE. GYP BOARD PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERT. OR HORZ. SINGLE LAYER INSTALLED ON ONE SIDE OF STL STUDS. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. HORZ. EDGE JOINTS AND HORZ. BUTT JOINTS NEED NOT BE BACKED BY FRAMING. HORZ. EDGE JOINTS AND HORZ. PANELS ATTACHED TO STL STUDS AND FL RUNNER WITH 1-1/4 IN. LONG TYPE S STL SCREWS SPACED 8 IN. O.C. WHEN APPLIED HORZ. OR 8 IN. O.C. ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. O.C. IN THE FIELD WHEN APPLIED VERT. WHEN USED IN WIDTH OTHER THAN 48 IN., GYP PANELS TO BE INSTALLED HORZ. GYP HELD UP FROM FLOOR MIN 1/4" TO 3/8" FOR INSTALLATION OF ACOUSTIC SEALANT - TYPICAL.
- CELLULOSE INSULATION - INSULATION IS APPLIED DRY AND DENSE-PACKED INTO ENTIRE CAVITY. GYPSUM BOARD PANELS ARE INSTALLED ON BOTH FACES OF THE WALL FIRST, WITH A GAP LEFT AT THE TOP OF EACH STUD BAY TO BE FILLED AFTER INSULATION IS IN PLACE. TESTING WILL BE PERFORMED TO ENSURE PROPER DENSITY AND THAT ENTIRE CAVITY IS FILLED, ESPECIALLY AROUND AND BELOW ELECTRICAL BOXES AND SWITCHES, ETC.
- JOINT TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED TO JOINTS AND SCREW HEADS, PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
- CAULKING AND SEALANTS - A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE PARTITION PERIMETER FOR SOUND CONTROL, BOTH SIDES OF WALL.
- SOUND CONTROL - (NOT SHOWN) - ALL J-BOXES INCLUDING SWITCHES AND OUTLETS SHALL BE SEALED WITH PUTTY PACKS IN ALL SOUND-RATED WALLS WHICH USE FIBERGLASS BATT INSULATION. ALTERNATIVELY CONTRACTION CAN ELECT TO USE LESSCO BOXES, WITH THE FRONT FLANGE SEALED TO GYP FACE WITH CAULK.
- SCHEDULED BASE - SEE FINISH SCHEDULE
- UNDERSIDE OF STRUCTURE
- TOP OF STRUCTURE
- REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF INSTANCES WHERE THIS WALL TYPE IS USES AS A SHEER WALL. SHEER WALLS WILL ADD SPECIFIC STRAP AND FASTENING REQUIREMENTS.
- FLOOR RUNNER - CHANNEL-SHAPED RUNNERS, MIN. 3 5/8" WIDE W/ DEEP LEGS, FABRICATED FROM NO. 20 MSG GALV STEEL. ATTACHED TO FLOOR WITH FASTENERS, 24" O.C. MAX.

3 | WALL 03 - DEMISING WALL  
 1 1/2" = 1'-0"

**LABEL 2 HR W01 2 HR BEARING FIRE BARRIER**  
 DESIGN NUMBER - IBC TABLE 720.1(2) - 1-1.1.2 HR (2 HR = 3.8")  
 STC SOUND - NA  
 R-21

- EXISTING LOAD-BEARING MASONRY EXTERIOR WALL. RATING PROVIDED BY BRICK - SEE IBC REFERENCE ABOVE.
- CEILING RUNNER - CHANNEL-SHAPED TOP TRACK, MIN. 3 5/8" WIDE BY 1 1/4" DEEP, FABRICATED FROM NO. 20 MSG GALV STEEL. TOP TRACK SITS INSIDE VERTICALLY SLOTTED HEAD TRACK. ATTACHED TO CEILING WITH FASTENERS, 24" O.C. MAX. VERTICAL STUDS AND GYP FASTENED TO TOP TRACK ONLY
- STEEL STUDS - 3 5/8" STEEL STUDS SET MIN. 1/2" FROM FACE OF EXTERIOR MASONRY WALL
- GYP BOARD - 5/8 IN. THICK, 4 FT WIDE. SCREW ATTACHED WITH 1 IN. LONG TYPE S STEEL SCREWS SPACED MAX 12 IN. O.C.
- INSULATION - CLOSED CELL SPRAY FOAM INSULATION TO A MINIMUM DEPTH OF 3-1/2" R-21
- JOINT TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED TO JOINTS AND SCREW HEADS, PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
- FLOOR RUNNER - CHANNEL-SHAPED RUNNERS, MIN. 3 5/8" WIDE W/ DEEP LEGS, FABRICATED FROM NO. 20 MSG GALV STEEL. ATTACHED TO FLOOR WITH FASTENERS, 24" O.C. MAX.

1 | WALL 01 - EXTERIOR INSULATING WALL  
 1 1/2" = 1'-0"

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Revisions:

Scale: 1 1/2" = 1'-0"

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WALL TYPES

A4.00