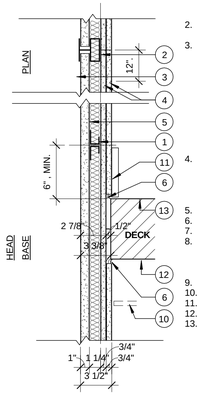
LABEL 2 HR | **W16** | **2 HR NON-BEARING SHAFT WALL**
DESIGN NUMBER - UL - U415 SYSTEM B
48 STC SOUND - BSA 542-68-SM

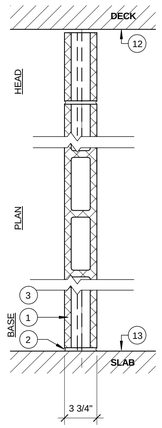


1. **FLOOR, SIDE AND CEILING RUNNER - (NOT SHOWN)** "J" - SHAPED RUNNER, MIN. 4 IN DEEP, WITH UNEQUAL LEGS OF 1 IN AND 2 IN, FABRICATED FROM MIN 24 MSG GALV. STL. RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED SIDE OF WALL. RUNNERS ATTACHED TO STRUCTURAL SUPPORTS WITH STEEL FASTENERS LOCATED NOT GREATER THAN 2 IN FROM ENDS AND NOT GREATER THAN 24 IN. O.C.
2. **STEEL STUDS -** "C-H" SHAPED STUDS, MIN 2 1/2" DEEP, FABRICATED FROM MIN 25 MSG GALV STL AND SPACED 24" O.C.
3. **GYPSUM BOARD -** GYPSUM LINER PANELS, NOM. 1 IN THICK, 24 IN WIDE. VERTICAL EDGES INSERTED IN "H" PORTION OF "C-H" STUDS. FREE EDGES OF PANELS ATTACHED TO LONG LEG OF THE VERTICAL "J" - RUNNERS WITH 1 5/8 IN LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12 IN O.C. WHEN WALL HEIGHT EXCEEDS PANEL LENGTH, LINER PANELS MAY BE BUTTED TO EXTEND THE FULL HEIGHT OF THE WALL. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING, WALLBOARD STRIPS CENTERED OVER BUTT JOINT AND SECURED TO LINER PANELS WITH SIX 1 1/2 IN LONG TYPE G STEEL SCREWS, THREE SCREWS ALONG THE 22 IN DIMENSION AT THE TOP AND BOTTOM OF THE STRIPS.
4. **GYPSUM BOARD** - (2) 5/8 IN. THICK, 4 FT TYPE X GYPSUM PANELS ORIENTED VERTICALLY AND STAGGERED 12 IN. ATTACH BASE LAYER TO STUDS WITH 1 IN LONG TYPE S STEEL SCREWS SPACED 12 IN. O.C. AND ATTACH THE FINISH LAYER WITH 1 5/8 IN TYPE S STEEL SCREWS SPACED 12" O.C.
5. **SOUND BATT** - MIN. 3 IN THICK MINERAL WOOL INSULATION BATTS.
6. **SEALANT** - UL AND STC LISTED SEALANT FULL PERIMETER BOTH SIDES.
7. .
8. **TAPE AND COMPOUND** - (ADDED/NOT SHOWN) - VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOISTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
9. .
10. **CEILING -** SEE ID
11. **SCHEDULED BASE -** SEE ID
12. UNDERSIDE OF STRUCTURE
13. TOP OF STRUCTURE

NOTE: CONSTRUCT AS YOU WOULD BUILD AN AREA SEPARATION WALL FROM THE BOTTOM UP. CUT LINER PANELS AND STUDS FULL LENGTH THEN PLACE J-RUNNERS ON TOP AND BUILD NEXT FLOOR SECTION. VERTICALLY ALIGN ALL CH-STUDS.

16 -WALL TYPE 16 - SHAFT WALL ASSEMBLY
1 1/2" = 1'-0"

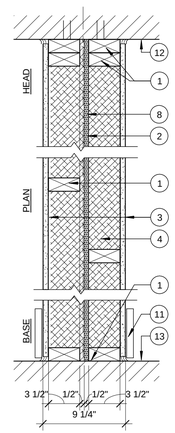
LABEL 2 HR | **W14** | **2 HR BEARING FIRE BARRIER**
DESIGN NUMBER - UL - U905
STC SOUND - N/A



1. **CONCRETE BLOCKS -** CLASSIFICATION D-2 (2HR) 8" NOM. THICKNESS.
2. **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.
3. **REINFORCING -** SEE STRUCTURAL
4. .
5. .
6. .
7. .
8. .
9. .
10. .
11. .
12. UNDERSIDE OF STRUCTURE
13. TOP OF STRUCTURE

14 -WALL TYPE 14 - CMU SHAFT WALL
1 1/2" = 1'-0"

LABEL 1 HR | **W12** | **1 HR NON-BEARING FIRE BARRIER**
DESIGN NUMBER - UL U493 (GA FILE WP5006 PROPRIETARY 1 HOUR FIRE)
60-64 STC SOUND - USG STC-050817, 8-11-05
FIRE TEST: UL R1319, 96NK31548, 10-21-96 UL DESIGN U493

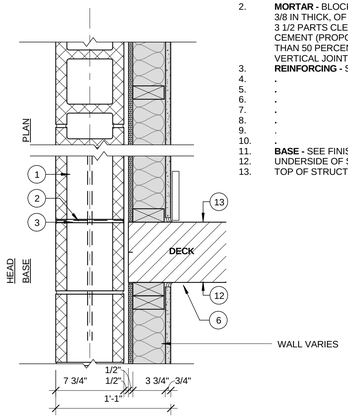


1. **WOOD FRAMING** - WOOD STUDS, NOM. 2 IN BY 4 IN., DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS.
2. **OSB SHEATHING -** (1) LAYER OF 7/16 OSB SINGLE SIDE. SEE PLAN FOR ORIENTATION. SEE STRUCTURAL FOR DETAILS.
3. **TYPE X GYP BOARD -** NOM. 5/8 IN. THICK, 4 FT. WIDE, GYP BOARD PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERT. OR HORZ.. SINGLE LAYER INSTALLED ON EA. SIDE OF STL STUDS. VERTICAL JNTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. HORZ. EDGE JNTS AND HORZ. BUTT JNTS NEED NOT BE BACKED BY FRAMING. HORZ. EDGE JNTS AND HORZ. BUTT JNTS ON OPPOSITE SIDES OF STL STUDS NEED NOT BE STAGGERED. PANELS ATTACHED TO STL STUDS AND FL RUNNER WITH 1-14 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 WDTH OTHER THAN 48 IN., GYP PANELS TO BE INSTALLED HORZ.. UNITED STATES GYP COMPANY - 5/8" SHEETROCK BRAND FIRECODE CORE GYP PANELS
4. **FIBER, DRY -** DRY DENSE PACKED CELLULOSE MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOM. DRY DENSITY OF 3LBS./FT3.
5. **JOINT TAPE AND COMPOUND - (NOT SHOWN)** VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOISTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JNTS.
6. **LATERAL BRACING - (NOT SHOWN)** - RIGHT ANGLE-SHAPED, SUPPLIED WITH NOTCHES SPACED 12, 16, OR 24 IN. O.C., FRICTION-FITTED TO THE CUT-OUTS IN THE STL STUDS, SUPPLIED IN 7/8 IN. BY 7/8 IN. BY 50 IN. LENGTHS. LATERAL BRACING BARS FABRICATED FROM MIN. 20 MSG GALV. STL. THE BRACING SHALL MEET THE 1996 EDITION OF THE AMERICAN IRON AND STL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STL STRUCTURAL MEMBERS".
7. **MESH NETTING - (NOT SHOWN) -** ANY THIN WOVEN OR NON-WOVEN FIBROUS NETTING MATERIAL ATTACHED WITH STAPLES TO THE OUTER FACE OF ONE ROW OF STUDS TO FACILITATE THE INSTALLATION OF THE SPRAYED FIBER FROM THE OPPOSITE ROW.
8. .
9. .
10. .
11. **SCHEDULED BASE -** SEE FINISH SCHEDULE
12. **UNDERSIDE OF STRUCTURE**
13. **TOP OF STRUCTURE**

NOTE: HORIZONTAL BLOCKING AT 4'-0" O.C. TO PREVENT INSULATION FROM SETTLING.

12 -WALL TYPE 12- 9 1/4" UNIT DEMISING WALL
1 1/2" = 1'-0"

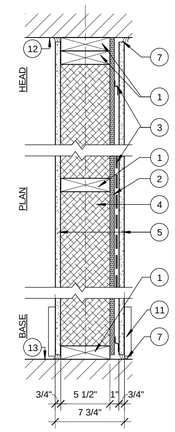
LABEL 2 HR | **W4** | **2 HR BEARING FIRE BARRIER**
DESIGN NUMBER - UL - U905
STC SOUND - N/A



1. **CONCRETE BLOCKS -** CLASSIFICATION D-2 (2HR) 8" NOM. THICKNESS.
2. **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.
3. **REINFORCING -** SEE STRUCTURAL DRAWINGS
4. .
5. .
6. .
7. .
8. .
9. .
10. .
11. **BASE -** SEE FINISH SCHEDULE
12. UNDERSIDE OF STRUCTURE
13. TOP OF STRUCTURE

13 -WALL TYPE 13 - CMU SHAFT AT LOADBEARING WALL
1 1/2" = 1'-0"

LABEL 1 HR | **W11** | **1 HR BEARING FIRE BARRIER**
DESIGN NUMBER - GA FILE NO. WP3240 1 HOUR FIRE
58 STC SOUND
FIRE TEST: UL R1319-93, 94, 129; ACOUSTIC LABRATORIES, NU- WOOL CO.



1. **WOOD FRAMING** - WOOD STUDS, NOM. 2 IN BY 4 IN., DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS.
2. **OSB SHEATHING -** (1) LAYER OF 7/16 OSB SINGLE SIDE. SEE PLAN FOR ORIENTATION. SEE STRUCTURAL FOR DETAILS.
3. **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.
4. **FIBER, DRY -** DRY DENSE PACKED CELLULOSE MATERIAL. INSULATION IS APPLIED DRY AND DENSE PACKED INTO CAVITY. GYPSUM PANELS ARE INSALLED ON BOTH FACES OF THE WALL FIRST WITH A GAP LEFT AT THE TOP OF EACH STUD BAY TO BE FILLED AFTER INSTALLATION. TESTING WILL BE PERFORMED TO ENSURE PROPER DENSITY AND THAT ENTIRE CAVITY IS FILLED, ESP. AROUND AND BELOW ELECTRICAL BOXES AND SWITCHES, ETC.
5. **TYPE X GYP BOARD -** NOM. 5/8 IN. THICK, 4 FT. WIDE, GYP BOARD PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERT. OR HORZ.. SINGLE LAYER INSTALLED ON EA. SIDE OF STL STUDS. VERTICAL JNTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. HORZ. EDGE JNTS AND HORZ. BUTT JNTS NEED NOT BE BACKED BY FRAMING. HORZ. EDGE JNTS AND HORZ. BUTT JNTS ON OPPOSITE SIDES OF STL STUDS NEED NOT BE STAGGERED. PANELS ATTACHED TO STL STUDS AND FL RUNNER WITH 1 IN. LONG TYPE S STL SCREWS SPACED 8 IN. O.C. PANELS ATTACHED TO RESILIENT CHANNELS WITH 1 IN. LONG TYPE S STL SCREWS SPACED 8 IN. O.C. WHEN APPLIED HORZ., OR 8 IN. O.C. ALONG VERT. AND BOTTOM EDGES AND 12 IN. O.C. IN THE FIELD WHEN APPLIED VERT.. WHEN USED IN WDTH OTHER THAN 48 IN., GYP PANELS TO BE INSTALLED HORZ.. UNITED STATES GYP COMPANY - 5/8" SHEETROCK BRAND FIRECODE CORE GYP PANELS
6. **JOINT TAPE AND COMPOUND - (NOT SHOWN)** VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOISTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JNTS.
7. **SEALANT** - UL AND STC LISTED SEALANT, FULL PERIMETER BOTH SIDES.
8. **BLOCKING - (NOT SHOWN)** WOOD BLOCKING AS NEEDED
9. **TAPE AND COMPOUND - (NOT SHOWN)** VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOISTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
10. .
11. .
12. **SCHEDULED BASE -** SEE FINISH SCHEDULE
13. **UNDERSIDE OF STRUCTURE**
14. **TOP OF STRUCTURE**

NOTE: MAX. 1" SCREWS SECURING GYP BD TO RESILIENT CHANNELS TO PREVENT SCREWS FROM TOUCHING STUDS & SHORT-CIRCUITING RESILIENT CHANNEL

11 -WALL TYPE 11 - CORRIDOR BEARING WALL
1 1/2" = 1'-0"

LICENSED ARCHITECT
DAVID LLOYD
NO. 936
STATE OF MAINE

Prepared For:
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PORTLAND, MAINE

Revisions:

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

Date: 12 MAY 2014

WALL TYPES

A4.02