LABEL 1 HR | **W08** | **2 HR BEARING FIRE WALL**
DESIGN NUMBER - UL U336
54+ STC SOUND RAL-TL88-348

NOTE: REFERENCE DETAIL_2_/_A5.04_ FOR TOP OF WALL DETAIL

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. **GYPSUM LINER PANELS -** (2) LAYERS 1" THICK.
3. **H-STUDS -** 2" H STUDS AT 24" O.C. WITH 2" C-RUNNER AT HEAD AND BASE OF WALL
4. **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
5. **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.
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. **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".
8. **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.
9. **ALUMINUM CLIPS (NOT SHOWN)** - REFERENCE DETAILS
10. **SCHEDULED BASE -** SEE FINISH SCHEDULE.

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

8 | WALL TYPE 04 - WD STD - DEMISING - 9 1/4" Copy 1
1 1/2" = 1'-0"

LABEL 1 HR | **W06** | **1 HR BEARING EXTERIOR WALL**
DESIGN NUMBER - UL - U303
STC SOUND - N/A
R-25

1. **WOOD FRAMING -** WOOD STUDS, NOM. 2 IN BY 6 IN. , DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS. BOTTOM PLATES IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESSURE TREATED.
2. **BATT INSULATION -** R15 FIBERGLASS BATT INSULATION FRICTION FIT INTO WALL CAVITY.
3. **WOOD STRUCTURAL PANEL SHEATHING -** (2) LAYERS (ONE ON EACH SIDE OF RIGID INSULATION) 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. FASTEN BOTH LAYERS OF SHEATHING TO STUDS
4. **AIR/MOISTURE BARRIER** - SEE SPEC.
5. **PLASTIC FURRING STRIPS** - CORAVENT SV5 FURRING SYSTEM. LOCATE STURDI STRIP VERTICAL STRAPPING CENTERED ON STUDS. ATTACH WITH 1 3/4" LONG CORROSION RESISTANT ROOFING NAILS AS DIRECTED BY MANUFACTURER. (ADDED)
6. **SHIPLAP SIDING -** 5 1/2" WHITE OAK SHIPLAP SIDING BLIND NAILED.
7. **GYPSUM BOARD** - 5/8 IN. THICK, 4 FT WIDE ATTACHED TO STUDS WITH TYPE S STEEL SCREWS SPACED 8 IN. O.C. ALONG EDGES OF BOARD AND 12 IN. O.C. IN THE FIELD OF THE BOARD. JNTS. ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF ASSEMBLY 48 IN. O.C.
8. **SEALANT** - FULL PERIMETER, BETWEEN ALL DOUBLE TOP PLATES.
9. **RIGID INSULATION** - 2" EXTRUDED POLYSTYRENE, R10 (ADDED)
10. **INSULATION -** 5 1/2" MIN CLOSED CELL SPRAY FOAM INSULATION R-33.
11. **BASE -** SEE FINISH SCHEDULE
12. UNDERSIDE OF STRUCTURE
13. TOP OF STRUCTURE
14. **WATER TABLE -** 1x8 PVC TRIM
15. PT WOOD FURRING

6 | WALL TYPE 06 - EXT. WHITE OAK SHIPLAP
1 1/2" = 1'-0"

LABEL 1 HR | **W04** | **1 HR BEARING FIRE BARRIER**
DESIGN NUMBER - UL U493 (GA FILE WP5006 PROPRIETARY 1 HR FIRE)
60-64 STC SOUND - USG STC-050817, 8-11-05
FIRE TEST: UL R1319, 96NK31548, 10-21-96 UL DESIGN U493

NOTE: REFERENCE DETAIL_8_/_A5.03_ FOR TOP OF WALL DETAIL

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. **NOT USED**
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. **SCHEDULED BASE -** SEE FINISH SCHEDULE

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

4 | WALL TYPE 04 - WD STD - DEMISING - 9 1/4"
1 1/2" = 1'-0"

LABEL 1 HR | **W02** | **1 HR BEARING EXTERIOR WALL**
DESIGN NUMBER - UL - U303
STC SOUND - N/A
R-25

1. **WOOD FRAMING -** WOOD STUDS, NOM. 2 IN BY 6 IN. , DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS. BOTTOM PLATES IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESSURE TREATED.
2. **BATT INSULATION -** R15 FIBERGLASS BATT INSULATION FRICTION FIT INTO WALL CAVITY.
3. **WOOD STRUCTURAL PANEL SHEATHING -** (2) LAYERS (ONE ON EACH SIDE OF RIGID INSULATION) 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. FASTEN BOTH LAYERS OF SHEATHING TO STUDS
4. **AIR/MOISTURE BARRIER** - SEE SPEC.
5. **PLASTIC FURRING STRIPS** - CORAVENT SV5 FURRING SYSTEM. LOCATE STURDI STRIP VERTICAL STRAPPING CENTERED ON STUDS. ATTACH WITH 1 3/4" LONG CORROSION RESISTANT ROOFING NAILS AS DIRECTED BY MANUFACTURER. (ADDED)
6. **FIBER CEMENT CLAPBOARD -** FIBER CEMENT PANEL SIDING WITH 6" EXPOSURE
7. **GYPSUM BOARD** - 5/8 IN. THICK, 4 FT WIDE ATTACHED TO STUDS WITH TYPE S STEEL SCREWS SPACED 8 IN. O.C. ALONG EDGES OF BOARD AND 12 IN. O.C. IN THE FIELD OF THE BOARD. JNTS. ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF ASSEMBLY 48 IN. O.C.
8. **SEALANT** - FULL PERIMETER, BETWEEN ALL DOUBLE TOP PLATES.
9. **RIGID INSULATION** - 2" EXTRUDED POLYSTYRENE, R10 (ADDED)
10. **INSULATION -** 5 1/2" MIN CLOSED CELL SPRAY FOAM INSULATION R-33.
11. **BASE -** SEE FINISH SCHEDULE
12. UNDERSIDE OF STRUCTURE
13. TOP OF STRUCTURE
14. **WATER TABLE -** 1x8 PVC TRIM
15. PT WOOD FURRING

2 | WALL TYPE 02 - EXT. FIBER CEMENT CLAPBOARD
1 1/2" = 1'-0"

W07 | **NON-RATED NON-BEARING WOOD PARTITION**
DESIGN NUMBER - N/A
STC SOUND - N/A

1. **WOOD STUDS -** WOOD STUDS, NOM. 2 IN BY 4 IN, DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS.WOOD STUDS, NOM. 2 IN BY 4 IN (IN WALL B USE 2X6), DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS.
2. **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
3. **BLOCKING - (NOT SHOWN)** WOOD BLOCKING AS NEEDED
4. **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.
5. **BASE -** SEE FINISH SCHEDULE

7 | WALL 07 - ONE-SIDED PARTITION
1 1/2" = 1'-0"

W05A	**W05B**
2x4	2x6

1-HOUR RATED BEARING PARTITION
DESIGN NUMBER - GA FILE WP 3510
SOUND - N/A

1. **WOOD FRAMING** - WOOD STUDS, NOM. 2 IN BY 4 IN (IN WALL B USE 2X6),, DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS.
2. .
3. **GYPSUM BOARD -** (1) LAYER 5/8" GYP. BD. EACH SIDE, PAPER SURFACED, APPLIED PERPENDICULAR TO FRAMING WITH 1" TYPE S STEEL SCREWS SPACED 8" O.C.. SEE NOTES FOR GYP. BD. TYPE
4. .
5. **SEALANT** - SEALANT BOTH SIDES.
6. **BLOCKING - (NOT SHOWN)** WOOD BLOCKING AS NEEDED
7. **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.
8. .
9. .
10. .
11. **BASE -** SEE FINISH SCHEDULE
12. UNDERSIDE OF STRUCTURE
13. TOP OF STRUCTURE

5 | WALL 05A&B - 1-HR RATED - BEARING PART.
1 1/2" = 1'-0"

LABEL 1 HR | **W03** | **1 HR BEARING EXTERIOR WALL**
DESIGN NUMBER - UL - U303
STC SOUND - N/A
R-25

1. **WOOD FRAMING -** WOOD STUDS, NOM. 2 IN BY 6 IN. , DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR; STUD LAYOUT BRACING, AND FASTENERS. BOTTOM PLATES IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESSURE TREATED.
2. **BATT INSULATION -** R15 FIBERGLASS BATT INSULATION FRICTION FIT INTO WALL CAVITY.
3. **WOOD STRUCTURAL PANEL SHEATHING -** (2) LAYERS (ONE ON EACH SIDE OF RIGID INSULATION) 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. FASTEN BOTH LAYERS OF SHEATHING TO STUDS
4. **AIR/MOISTURE BARRIER** - SEE SPEC.
5. **PLASTIC FURRING STRIPS** - CORAVENT SV5 FURRING SYSTEM. LOCATE STURDI STRIP VERTICAL STRAPPING CENTERED ON STUDS. ATTACH WITH 1 3/4" LONG CORROSION RESISTANT ROOFING NAILS AS DIRECTED BY MANUFACTURER. (ADDED)
6. **METAL TILE -** MILLENIUM FORMS ZALMAG TS PANEL FASTENED ACCORDING TO MANUFACTURERS INSTALLAION INSTRUCTIONS.
7. **GYPSUM BOARD** - 5/8 IN. THICK, 4 FT WIDE ATTACHED TO STUDS WITH TYPE S STEEL SCREWS SPACED 8 IN. O.C. ALONG EDGES OF BOARD AND 12 IN. O.C. IN THE FIELD OF THE BOARD. JNTS. ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF ASSEMBLY 48 IN. O.C.
8. **SEALANT** - FULL PERIMETER, BETWEEN ALL DOUBLE TOP PLATES.
9. **RIGID INSULATION** - 2" EXTRUDED POLYSTYRENE, R10 (ADDED)
10. **INSULATION -** 5 1/2" MIN CLOSED CELL SPRAY FOAM INSULATION R-33.

3 | WALL TYPE 03 - EXT. METAL TILE
1 1/2" = 1'-0"

LABEL 1 HR | **W01** | **1-HR BEARING EXTERIOR WALL**
UL - U326
STC SOUND - N/A
R-27

1. **WOOD STUDS --** NOM 2X6 SPACED 16 IN. OC WITH (2) 2X6 TOP AND (1) 2x6 BOTTOM PLATES. STUDS LATERALLY-BRACED BY WOOD STRUCTURAL PANEL SHEATHING (ITEM 5) AND EFFECTIVELY FIRE STOPPED AT TOP AND BOTTOM OF WALL. BOTTOM PLATES IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESSURE TREATED.
2. **WOOD STRUCTURAL PANEL 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.
3. **JOINTS AND NAILHEADS --** (NOT SHOWN) -- WALLBOARD JOINTS COVERED WITH TAPE AND JOINT COMPOUND. NAIL HEADS COVERED WITH JOINT COMPOUND.
4. **BATT INSULATION -** R15 FIBERGLASS BATT INSULATION FRICTION FIT INTO WALL CAVITY.
5. **EXTERIOR INSULATION -** 2 INCH EXTRUDED POLYSTYRENE RIGID INSULATION, WITH A MIN. R-VALUE OF 5 PER INCH.
6. **AIR/MOISTURE BARRIER -** (SEE SPECIFICATIONS)
7. **BRICK VENEER --** ANY TYPE OF NOM 4 IN. WIDE BRICK VENEER. WHEN BRICK VENEER IS USED, THE RATING IS APPLICABLE WITH EXPOSURE ON EITHER FACE. TWO IN. AIR SPACE PROVIDED BETWEEN BRICK VENEER AND SHEATHING.
8. **STAINLESS STEEL ADJUSTABLE BRICK TIES - TIES** ATTACHED OVER SHEATHING TO STUDS WITH STAINLESS STEEL SCREWS: TIES SPACED NOT MORE THAN EACH SIXTH COURSE OF BRICK AND MAX 32 IN. OC HORIZONTALLY.
9. **CAVITY --** AIR SPACE BEHIND BRICK VENEER.

SEE EXT. DETAILS FOR THRU FLASHING, ACCESSORIES, AND DETAILS

FILL CAVITY WITH MORTAR TO GRADE

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

LICENSED ARCHITECT DAVID LLOYD NO. 936 STATE OF MAINE
Date: 07/05/17

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Revisions:

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

Date: 20 APR 2017

WALL TYPES

A4.00