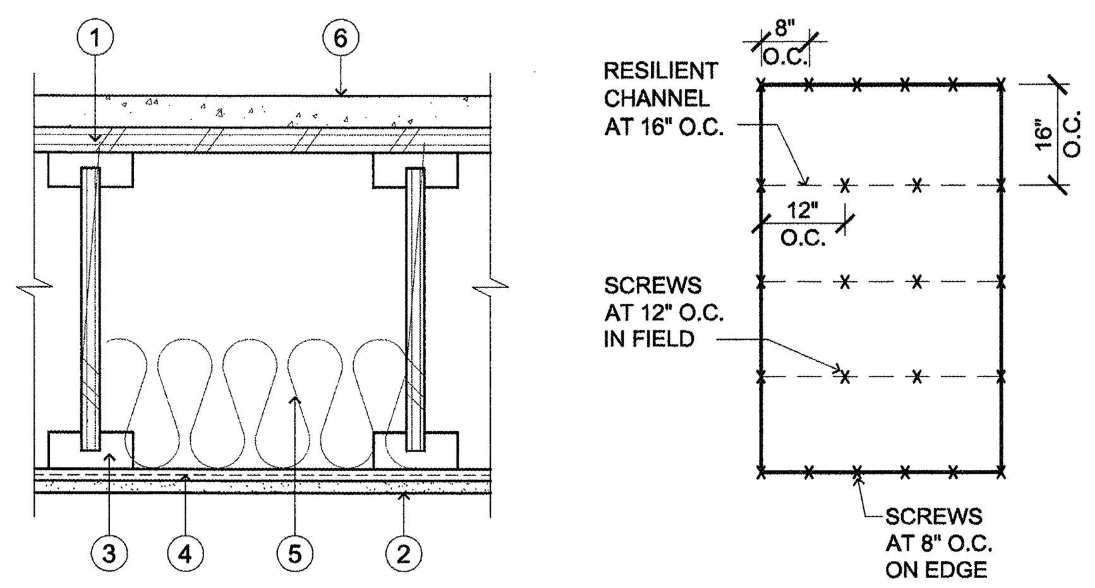
JOINTS BETWEEN GYPSUM BOARDS IN SYSTEMS RATED FOR FIRE, SOUND, OR SHEAR MUST BE CONSTRUCTED WITH THE GYPSUM BOARD EDGES IN MODERATE CONTACT. MODERATE CONTACT MEANS THAT THE EDGES ARE ESSENTIALLY TOUCHING EACH OTHER. IT IS POSSIBLE FOR THE GYPSUM BOARD EDGES TO BE IN MODERATE CONTACT YET NOT TOUCH ALONG THE ENTIRE LENGTH OF THE JOINT. THEREFORE, IN GYPSUM BOARD SYSTEMS RATED FOR FIRE, SOUND, OR SHEAR, SMALL GAPS SPACED SPORADICALLY ALONG THE JOINT ARE ACCEPTABLE AS LONG AS THE BOARD EDGES ARE ESSENTIALLY TOUCHING ONE ANOTHER. GAPS UP TO ¼" MUST BE FILLED WITH A THROUGH-PENETRATION SEALANT (FIRE CAULK). GAPS OVER ¼" ARE NOT ACCEPTABLE.

NOTE:
ALL ASSEMBLIES THIS SHEET MUST BE INSTALLED PER ASSEMBLY NUMBER LISTED ON DRAWING. ANY SUBSTITUTIONS TO ASSEMBLIES MUST BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL. SUBJECT TO LOCAL APPROVAL

NOTE:
-WALLS: R-21
-ROOF/ATTIC: R-49
-SLAB: VERT. R-10 FOR 24"
-DOOR U-VALUE: 0.7
-WINDOW U-VALUE: 0.3



CONSTRUCTION ASSEMBLY
AMERICAN WOOD COUNCIL - WIJ-1.2

NOTES	DESCRIPTION
1	FLOOR SHEATHING: MINIMUM 23/32" THICK TOUNGE-AND-GROOVE WOOD SHEATHING (EXPOSURE 1). INSTALLED PER CODE REQUIREMENTS WITH MINIMUM 8d COMMON NAILS AND GLUED TO JOIST TOP FLANGES WITH AFG-01 CONSTRUCTION ADHESIVE.
2	GYPSUM WALLBOARD: MINIMUM 5/8" THICK TYPE "C" GYPSUM WALLBOARD INSTALLED WITH LONG DIMENSION PERPENDICULAR TO RESILIENT CHANNELS AND FASTENED TO EACH CHANNEL WITH MINIMUM 1" LONG TYPE S DRYWALL SCREWS. FASTENERS SPACED 12" ON CENTER IN THE FIELD OF THE WALLBOARD, 8" ON CENTER AT WALLBOARD END JOINTS, AND 3/4" FROM PANEL EDGES AND ENDS. END JOINTS OF WALLBOARD STAGGERED.
3	STRUCTURAL MEMBERS: WOOD I-JOISTS SPACED A MAXIMUM OF 24" O.C. MINIMUM I-JOIST FLANGE DEPTH: 1-1/2" MINIMUM I-JOIST FLANGE AREA: 5.25 SQ. IN. MINIMUM I-JOIST WEB THICKNESS: 7/16" MINIMUM I-JOIST DEPTH: 9-1/4" SEE ASTM D 5055-07 FOR QUALIFICATION REQUIREMENTS.
4	RESILIENT CHANNELS: MINIMUM 0.019" THICK GALVANIZED STEEL RESILIENT CHANNELS, ATTACHED PERPENDICULAR TO I-JOISTS USING 1-5/8" LONG DRYWALL SCREWS. RESILIENT CHANNELS SPACED 16" O.C. AND DOUBLED AT EACH WALLBOARD END JOINT EXTENDING TO THE NEXT JOINT.
5	INSULATION: MINIMUM 1-1/2" THICK MINERAL WOOL INSULATION BATTS - 2.5 PCF (NOMINAL), SUPPORTED BY RESILIENT CHANNELS.
ACTUAL FIRE RESISTANCE RATING	1 HOUR FIRE
STC RATING	60 (WITH CEMENT TOPPING AND CARPET/PAD)
FINISHES - OPTIONAL	
6	1" OF CEMENT TOPPING
STC RATING - 55 PER 2012 OBC - VOLUME 2 - "SB3" TABLE 2 - ASSEMBLY #F14b	

E — FLOOR CEILING ASSEMBLY
(AWC WIJ-1.2)
SCALE: 1-1/2"=1'-0"
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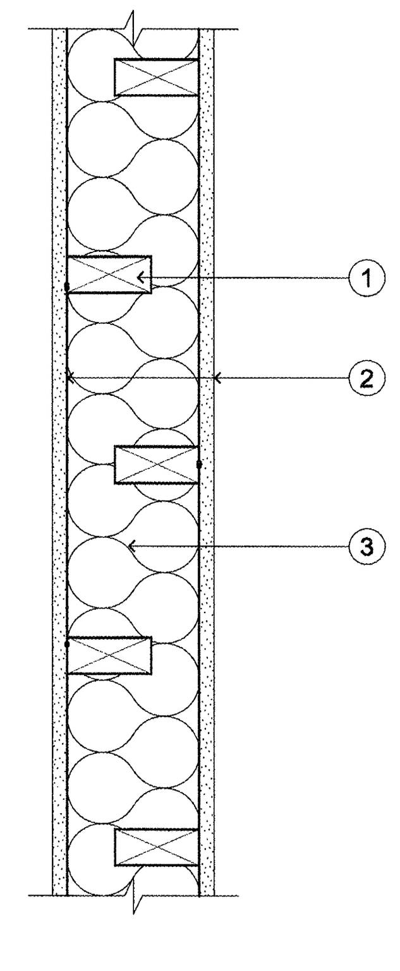
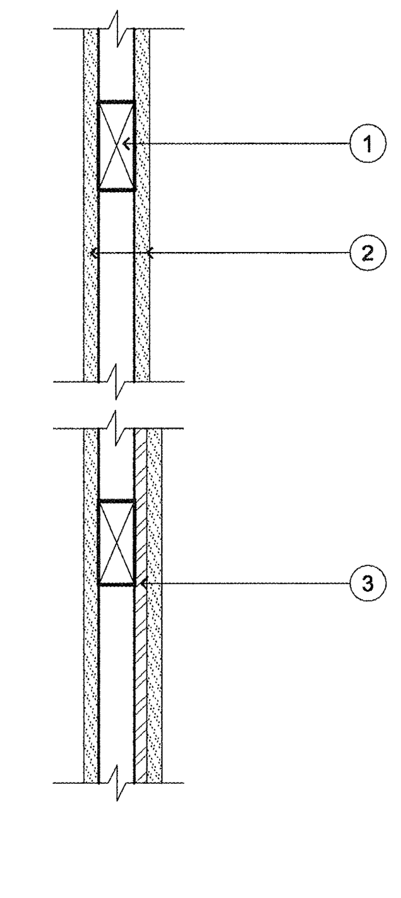


CONSTRUCTION ASSEMBLY

NOTES	DESCRIPTION
1	2x4 WOOD STUDS AT 16" O.C. STAGGERED 8" O.C. ON 2x6 WOOD PLATES
2	ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2x4 WOOD STUDS AT 16" O.C. WITH 6d COATED NAILS, 1-7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C.
3	R-21 INSULATION
SOUND	40-44 STC (44+ WITH INSULATION)

C6 — INT. WALL ASSEMBLY
(STAGGERED STUD SOUND WALL) 1-HR (WP 3380)
SCALE: 1 1/2" = 1'-0"
T:/09FINISH/250GYPBD/09250846

NOTE:
PER GENERAL EXPLANATORY NOTE #16 IN GYPSUM ASSOCIATION BOOK, GREATER STUD SIZES ARE PERMITTED. SPACING INDICATED IN ASSEMBLY ARE MAXIMUMS.

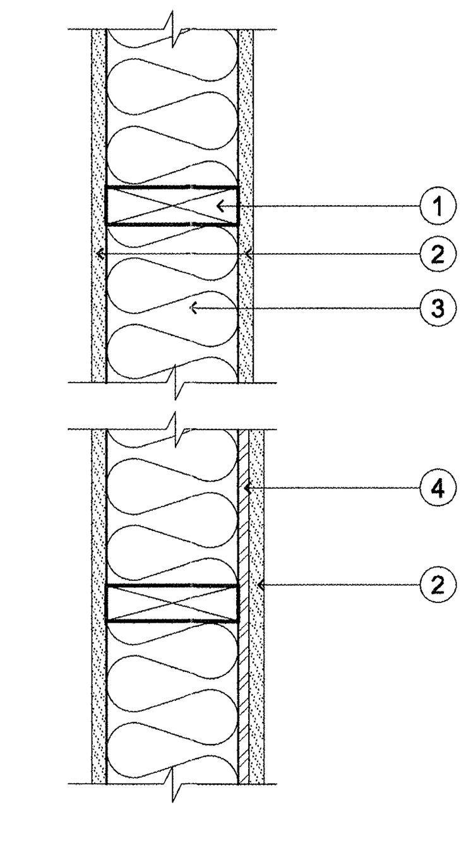


CONSTRUCTION ASSEMBLY
GA-600-2012 FIRE RESISTANCE DESIGN MANUAL (GA FILE NO. WP 3640)

NOTES	DESCRIPTION
1	2x4 STUDS @ 16" O.C. U.O.N.
2	ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF EITHER 2x3 OR 2x4 WOOD STUDS, TURNED FLATWISE, 24" O.C. WITH 6d CEMENT-COATED NAILS, 1-7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C.. (NON LOAD BEARING)
3	SHEAR PANEL (AS OCCURS) SEE STRUC. SHEAR WALL PLAN.
ACTUAL FIRE RESISTANCE RATING	1 HOUR FIRE
SOUND RATING	NR

C4 — INT. WALL ASSEMBLY
(2x4 PARTITION) (WP 3640)
SCALE: 1-1/2"=1'-0"
T:/09FINISH/250GYPBD/09250154

NOTE:
PER GENERAL EXPLANATORY NOTE #16 IN GYPSUM ASSOCIATION BOOK, GREATER STUD SIZES ARE PERMITTED. SPACING INDICATED IN ASSEMBLY ARE MAXIMUMS.



CONSTRUCTION ASSEMBLY
GA-600-2012 FIRE RESISTANCE DESIGN MANUAL (GA FILE NO. WP 3614)

NOTES	DESCRIPTION
1	2x6 STUDS AT 16" O.C. U.O.N.
2	ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2x6 WOOD STUDS 16" O.C. WITH 1-1/4" TYPE W DRYWALL SCREWS 12" O.C. JOINTS STAGGERED 16" ON OPPOSITE SIDES. (LOAD-BEARING)
3	3-1/2" SOUND BATT INSULATION WHERE INDICATED ON FLOOR PLANS
4	SHEAR PANEL (AS OCCURS) SEE STRUC. SHEAR WALL PLAN.
ACTUAL FIRE RESISTANCE RATING	1 HOUR FIRE
SOUND RATING	35 TO 39 STC

C2 — INT. WALL ASSEMBLY
(INTERIOR 2x6 STUD WALL) (WP 3614)
SCALE: 1-1/2"=1'-0"
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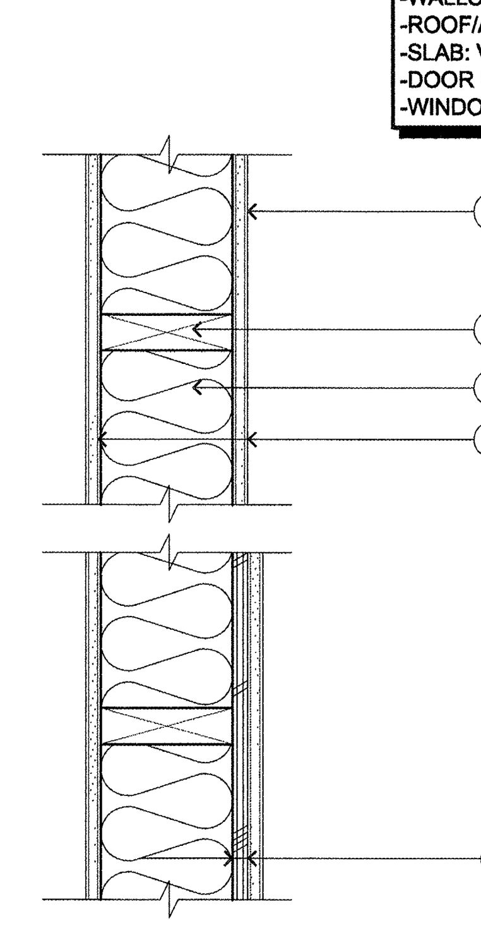

CONSTRUCTION ASSEMBLY
UL DESIGN NO. U309

NOTES	DESCRIPTION
1	CONSTRUCTION DESIGN: 2x6 AS ALLOWED PER UL DESIGN NOTE 2. TESTED: NOM 2x4 IN., SPACED 24 IN. O.C. EFFECTIVELY FIRESTOPPED.
2	GYPSUM BOARD - 5/8 IN. THICK, 4 FT WIDE, APPLIED EITHER HORIZONTALLY OR VERTICALLY, NAILED TO STUDS AND BEARING PLATES WITH 6d CEMENT COATED NAILS 1-7/8 IN. LONG, 0.0915 IN. SHANK DIAM AND 1/4 IN. DIAM HEADS SPACED 7 IN. OC. (SEE UL DESIGN U309 FOR APPROVED GYPSUM BY MANUFACTURER)
3	JOINTS AND NAILHEADS (NOT SHOWN) - WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND. NAILHEADS COVERED WITH JOINT COMPOUND. GYPSUM PLASTER NOT MORE THAN 1/8 IN. THICK MAY BE APPLIED OVER THE WALLBOARD IN ADDITION TO THE SPECIFIED JOINT TREATMENT.
4	3" MINERAL OR GLASS FIBER INSULATION IN STUD SPACE.
S	WOOD SHEAR PANEL (AS OCCURS) AS PER STRUCT. SHEAR WALL PLAN
TESTED FIRE RESISTANCE RATING	1 HOUR
REQUIRED CONSTRUCTION RATING	1 HOUR

B — INT. WALL ASSEMBLY
(INTERIOR 2x6 STUD WALL)
SCALE: 1-1/2" = 1'-0"
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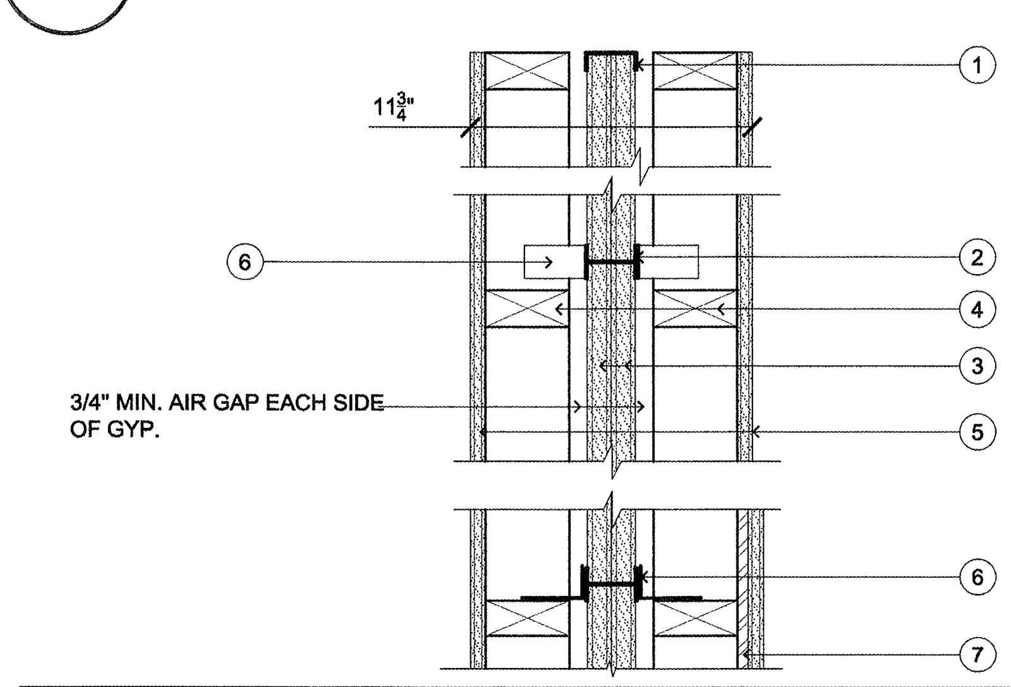

CONSTRUCTION ASSEMBLY
UL - DESIGN NUMBER U336

NOTES	DESCRIPTION
1	SEPARATION WALL: (MAX HEIGHT - 66') FLOOR, INTERMEDIATE OR TOP WALL - 2" WIDE CHANNEL SHAPED WITH 1" LONG LEGS FORMED FROM NO. 25 MSG GALV STEEL, SECURED WITH SUITABLE FASTENERS SPACED 24" O.C.
2	METAL STUDS - STEEL MEMBERS FORMED FROM NO. 25 MSG GALV STEEL HAVING "H"-SHAPED FLANGED SPACED 24" O.C. OVERALL DEPTH 2" AND FLANGE WIDTH 1-3/8".
3	1" SHEETROCK BRAND GYPSUM LINER PANELS - (2) LAYERS OF 1" THICK GYP. WALLBOARD LINER PANELS, BEARING THE UL CLASSIFICATION MARK, SUPPLIED IN 24" WIDTHS. VERTICAL EDGES OF PANELS FRICTION FITTED INTO "H"-SHAPED STUDS.
4	PROTECTED WALL: (BEARING OR NONBEARING WALL) WOOD STUDS - 2x STUDS, SEE A3'S FOR WALL SIZE. MAX SPACING 24" O.C. STUDS CROSS BRACED AT MID-HEIGHT WHERE NECESSARY FOR CLIP ATTACHMENT. MIN. 3/4" SEPARATION BETWEEN WOOD FRAMING AND FIRE SEPARATION WALL.
5	GYPSUM BOARD - CLASSIFIED OR UNCLASSIFIED - MIN. 1/2" THICK, 4' WIDE, APPLIED EITHER HORZ. OR VERT. WALLBOARD ATTACHED TO STUDS WITH 1-1/4" LONG STEEL DRYWALL NAILS SPACED 8" O.C. VERT. JOINTS LOCATED OVER STUDS.
6	ATTACHMENT CLIPS - ALUMINUM ANGLE, 0.063" THICK, 2" WIDE WITH 2" AND 2-1/4" LEGS. CLIPS SECURED WITH TYPE 'S' SCREWS 3/8" LONG TO 'H' STUDS AND WITH TYPE 'W' SCREWS 1-1/4" LONG TO WOOD FRAMING THROUGH HOLES PROVIDED IN CLIP. (A) CLIP PLACEMENT FOR SEPARATION WALLS UP TO 23' HIGH. SPACE CLIPS A MAX OF 10' O.C. VERT. BETWEEN WOOD FRAMING AND 'H' STUDS. (B) CLIP PLACEMENT FOR SEPARATION WALLS UP TO 44' HIGH. SPACE CLIPS AS DESCRIBED IN ITEM (A) FOR THE UPPER 24'. REMAINING WALL AREA BELOW REQUIRES CLIPS SPACED A MAX 5' O.C. VERT. BETWEEN WOOD FRAMING AND 'H' STUDS. (C) CLIP PLACEMENT FOR SEPARATION WALLS UP TO 66' HIGH: SPACE CLIPS AS DESCRIBED IN ITEM (A) FOR UPPER 24'. SPACE CLIPS AS DESCRIBED IN ITEM (B) FOR NEXT 20' BELOW THE UPPER 24'. REMAINING WALL AREA BELOW REQUIRES CLIPS SPACED A MAX OF 40" O.C. VERT. BETWEEN WOOD FRAMING AND 'H' STUDS.
7	SHEAR PANEL (AS OCCURS) SEE STRUC. SHEAR WALL PLAN.
ACTUAL FIRE RESISTANCE RATING	2 HOUR FIRE

D — AREA SEPARATION WALL
(METAL "H" STUD FIRE WALL) (U336)
SCALE: 1-1/2"=1'-0"
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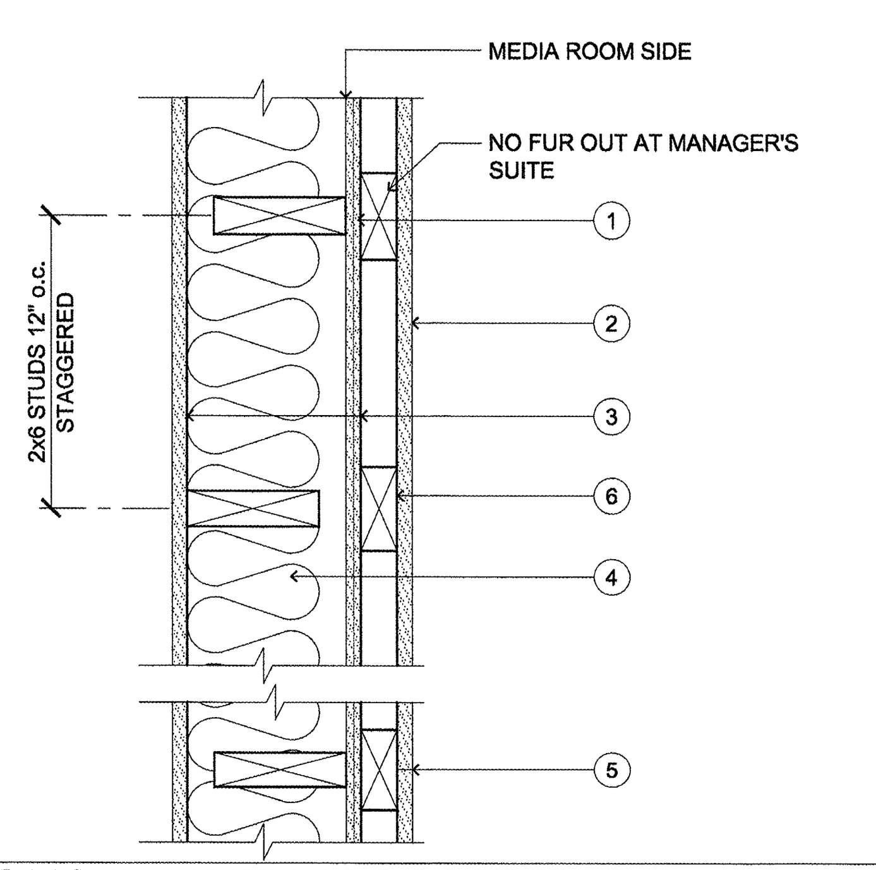
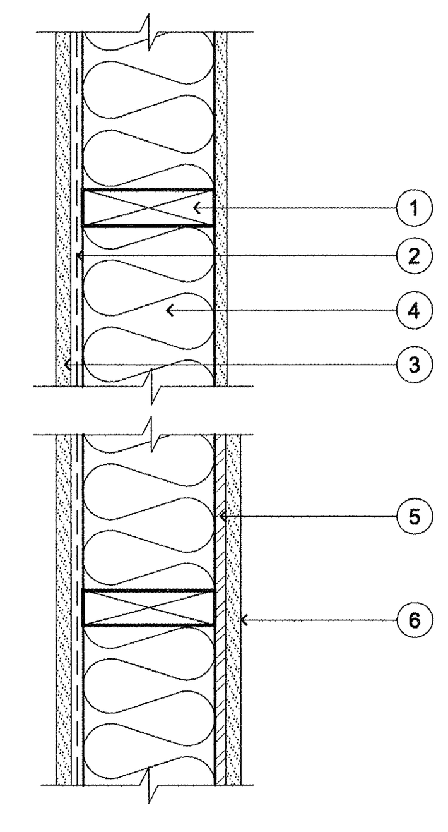


CONSTRUCTION ASSEMBLY
UL - DESIGN NUMBER U340

NOTES	DESCRIPTION
1	WOOD STUDS - 2x6 AT 12" o.c. STAGGERED w/ 2x10 PLATES
2	(QUIETROCK ES) - 5/8" THICK, 4' WIDE PANELS, APPLIED VERTICALLY TO STUDS AND BEARING PLATES WITH 1-5/8" LONG, NO 6, TYPE S, COARSE THREADED SCREWS SPACED AT 8" o.c. ALONG THE PERIMETER OF THE PANELS AND 12" o.c. IN THE FIELD. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUD. HORIZONTAL JOINTS OF VERTICALLY APPLIED PANELS TO BE STAGGERED 4' ON OPPOSITE SIDES OF THE WALL. HORIZONTAL JOINTS OF VERTICALLY APPLIED PANELS TO BE SUPPORTED BY STUDS.
3	(SHEET ROCK Brand FIRECODE) - 5/8" THICK, 4' WIDE PANELS, APPLIED VERTICALLY TO STUDS AND BEARING PLATES WITH 1-5/8" LONG, NO. 6, TYPE S, COARSE THREADED SCREWS SPACED AT 8" o.c. ALONG THE PERIMETER OF THE PANELS AND 12" o.c. IN THE FIELD. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUD. HORIZONTAL JOINTS OF VERTICALLY APPLIED PANELS TO BE STAGGERED 4' ON OPPOSITE SIDES OF THE WALL. HORIZONTAL JOINTS OF VERTICALLY APPLIED PANELS TO BE BACKED WITH 2x4 WOOD BACKING.
4	(QUIETZONE NOISE CONTROL BATTS) - UL CLASSIFIED GLASS FIBRE INSULATION WITH OR WITH OUT KRAFT PAPER FACING, NOMINAL 5-1/2" THICK, NOMINAL DENSITY OF 0.95 PCF, FASTENED TO WOOD STUDS USING METAL FASTENERS TO COMPLETELY FILL THE STUD CAVITIES.
5	JOINTS AND SCREWHEADS - JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS. PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINT.
6	2x4 FLAT FURRING, 16" O.C.
ACTUAL FIRE RESISTANCE RATING	1 HOUR FIRE
SOUND RATING	STC 57+

C5 — INT. WALL ASSEMBLY
(INTERIOR 2x6 STAGGERED STUD WALL) (U340)
SCALE: 1-1/2"=1'-0"
T:/09FINISH/250GYPBD/09250179

NOTE:
PER GENERAL EXPLANATORY NOTE #16 IN GYPSUM ASSOCIATION BOOK, GREATER STUD SIZES ARE PERMITTED. SPACING INDICATED IN ASSEMBLY ARE MAXIMUMS.



CONSTRUCTION ASSEMBLY
GA-600-2012 FIRE RESISTANCE DESIGN MANUAL (GA FILE NO. WP 3243)

NOTES	DESCRIPTION
1	2x8 STUDS AT 16" O.C. U.O.N.
2	RESILIENT CHANNELS 24" O.C. ATTACHED AT TIGHT ANGLES TO ONE SIDE OF 2X8 WOOD STUDS 16" OR 24" O.C. WITH 1 1/4" TYPE S DRYWALL SCREWS. *NOTE- RESILIENT CHANNELS TO BE PLACED OPPOSITE OF PLYWD. AS OCCURS AT UNIT PARTYWALLS.
3	ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO CHANNELS WITH 1" TYPE S DRYWALL SCREWS 8" O.C. WITH VERTICAL JOINTS LOCATED MIDWAY BETWEEN STUDS END JOINTS BACKBLOCKED WITH RESILIENT CHANNELS.
4	3" MINERAL OR GLASS FIBER INSULATION IN STUD SPACE.
5	SHEAR PANEL (AS OCCURS) SEE STRUC. SHEAR WALL PLAN.
6	OPPOSITE SIDE: ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 6d CEMENT COATED NAILS, 1 7/8" LONG, 0.0915" SHANK, 15/16" HEADS, 7" O.C.
ACTUAL FIRE RESISTANCE RATING	1 HOUR FIRE
SOUND RATING	50 TO 54 STC

C3 — INT. WALL ASSEMBLY
(LAUNDRY PARTITION) (WP 3243)
SCALE: 1-1/2"=1'-0"
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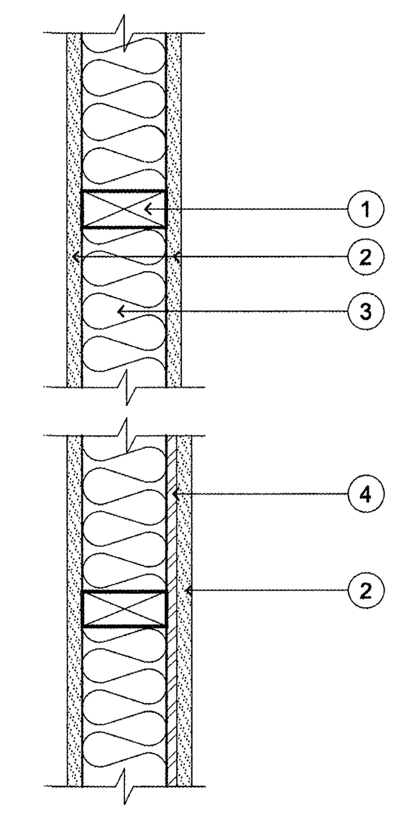

CONSTRUCTION ASSEMBLY
GA-600-2012 FIRE RESISTANCE DESIGN MANUAL (GA FILE NO. WP 3614)

NOTES	DESCRIPTION
1	2x4 STUDS AT 16" O.C. U.O.N.
2	ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2x4 WOOD STUDS 16" O.C. WITH 1-1/4" TYPE W DRYWALL SCREWS 12" O.C. JOINTS STAGGERED 16" ON OPPOSITE SIDES. (LOAD-BEARING)
3	3-1/2" SOUND BATT INSULATION WHERE INDICATED ON FLOOR PLANS
4	SHEAR PANEL (AS OCCURS) SEE STRUC. SHEAR WALL PLAN.
ACTUAL FIRE RESISTANCE RATING	1 HOUR FIRE
SOUND RATING	35 TO 39 STC

C1 — INT. WALL ASSEMBLY
(INTERIOR 2x4 STUD WALL) (WP 3614)
SCALE: 1-1/2"=1'-0"
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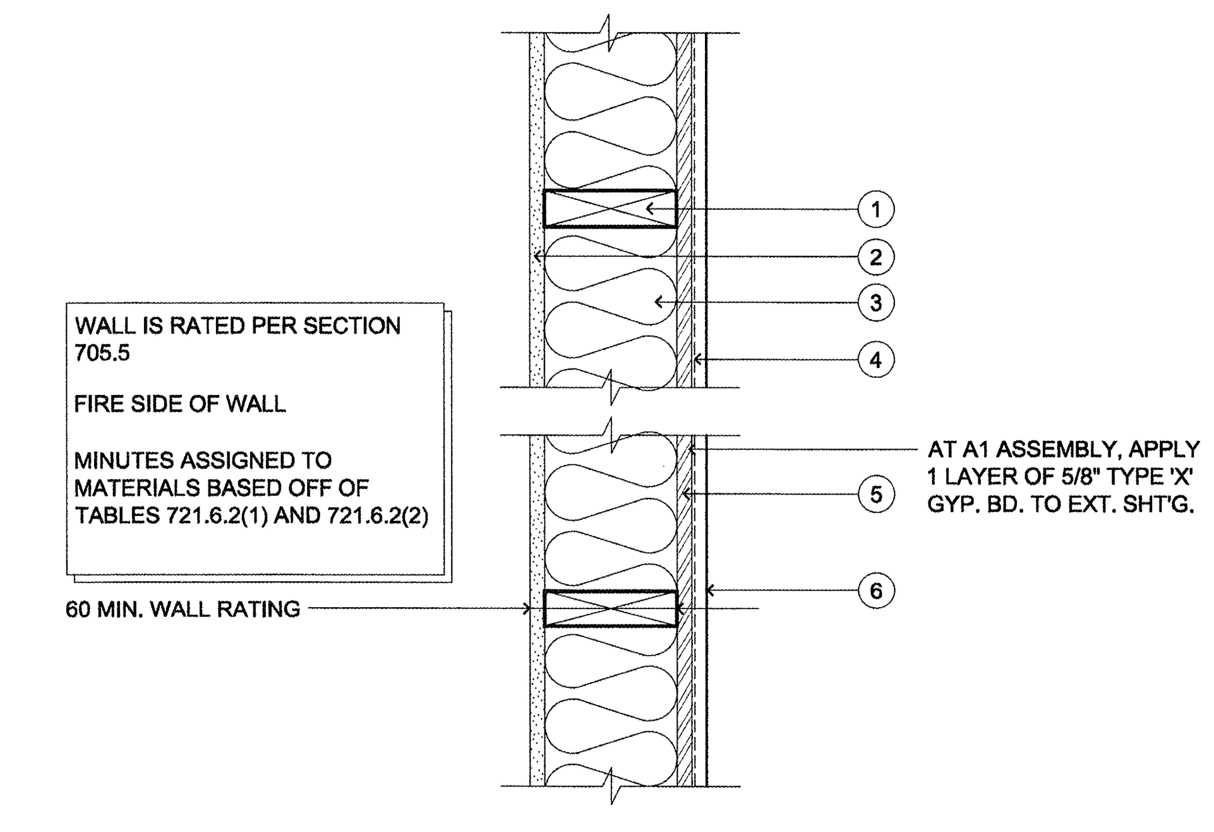

CONSTRUCTION ASSEMBLY
FIRE RATING ACHIEVED BY CALCULATED METHOD

NOTES	DESCRIPTION
1	2x6 STUDS AT 16" O.C. U.O.N. (FIRE RATING PER TABLE 721.6.2(2) 20 MIN.)
2	ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR WATER RESISTANT BACKER BOARD OR VENEER BASE, AS NOTED ON PLAN, APPLIED PARALLEL WITH OR AT RIGHT ANGLES TO 2X WOOD STUDS, WITH 6D COATED NAILS 1-7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. (LOAD BEARING). FIRE RATING PER TABLE 721.6.2(1) 40 MIN.
3	R-21 FIBER GLASS BATT. INSUL.
4	WRAP ENTIRE EXTERIOR OF BUILDING WITH BUILDING PAER PER CONTRACTOR (BY FORTIFIBER BUILDING SYSTEMS). ALL JOINTS TO BE TAPED WITH FORTIBIER SHEATHING TAPE). SYSTEM MUST BE INSTALLED IN ACCORDANCE W/ MANUFACTURE INSTALLATION. INSTRUCTIONS TO PROVIDE 10 YEAR WARRANTY TO GENERAL CONTRACTOR.
5	ONE LAYER 7/16" O.S.B. SHEATHING, 48" WIDE, APPLIED PARALLEL TO STUDS WITH GALVANIZED ROOFING NAILS, 1-3/4" LONG, 0.120" SHANK, 7/16" OR 1/2" HEADS, 12" O.C. IN FIELD, 6" O.C. FROM FIRE SIDE PERIMETER. EXT. CLADDING TO BE ATTACHED THROUGH SHEATHING TO STUDS. WALLBOARD AND SHEATHING NAILED TO TOP AND BOTTOM PLATES AT 8" O.C.
6	EXTERIOR SIDING PER ELEVATIONS
ACTUAL FIRE RESISTANCE RATING	1 HOUR FIRE
SOUND RATING	N/A

A — EXT. WALL ASSEMBLY
(EXTERIOR 2x6 STUD WALL) 1-HR
SCALE: 1-1/2"=1'-0"
T:/09FINISH/250GYPBD/09250148

REGISTERED ARCHITECT — DANIEL ROACH No. 3526 — STATE OF MAINE

lenity architecture
3150 Kettle Court SE, Salem, Oregon 97301
P 503 399 1090 F 503 399 0565 W lenityarchitecture.com

COLSON AND COLSON GENERAL CONTRACTOR, INC.
2260 McGILCHRIST STREET SE, SUITE 200
SALEM, OREGON, 97302
PHONE (503) 586-7401

PORTLAND RETIREMENT RESIDENCE
802 OCEAN AVE. PORTLAND, MAINE 04103

FLOOR AND WALL TYPES

DATE
8/28/2015

REVISED DATE

SHEET
A7.1a