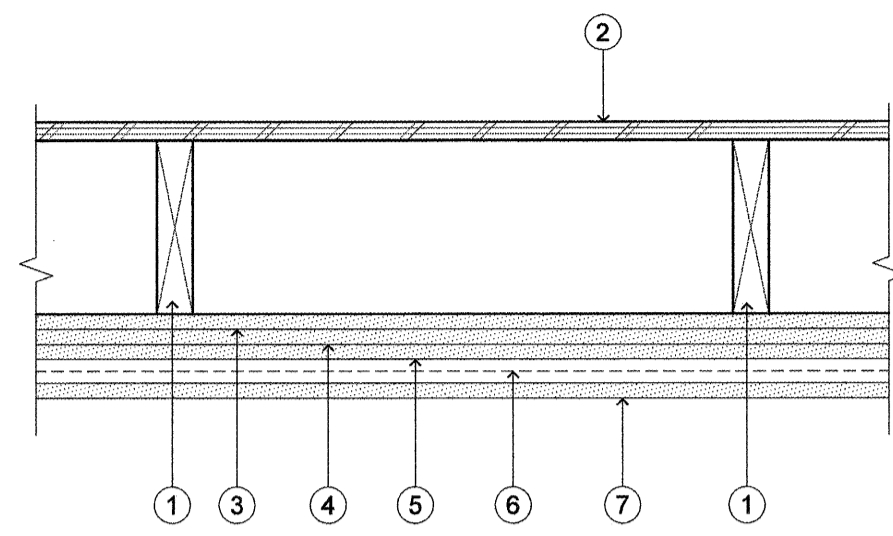


NOTE:
ALL ASSEMBLIES THIS SHEET MUST BE INSTALLED PER ASSEMBLY NUMBER LISTED ON DRAWING. ANY SUBSTITUTIONS TO ASSEMBLIES MUST BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL. SUBJECT TO LOCAL APPROVAL.



CONSTRUCTION ASSEMBLY

GA-600-2012 FIRE RESISTANCE DESIGN MANUAL (GA FILE NO. RC 2750)

NOTES	DESCRIPTION
1	2x10 WOOD JOISTS 24" O.C.
2	3/4" T & G EDGE PLYWOOD APPLIED AT RIGHT ANGLES TO JOISTS WITH 8d NAILS AT 6" O.C. AT JOINTS AND 12" AT INTERMEDIATE JOINTS.
3	BASE LAYER - 5/8" TYPE X GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES TO 2x10 WOOD JOISTS 24" O.C. WITH 1-1/4" TYPE W OR S DRYWALL SCREWS 12" O.C.
4	SECOND LAYER - 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS WITH 2" TYPE W DRYWALL SCREWS 12" O.C. JOINTS OFFSET 24" FROM BASE LAYER JOINTS.
5	THIRD LAYER - 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS WITH 2-1/2" TYPE W DRYWALL SCREWS 12" O.C. JOINTS OFFSET 12" FROM SECOND LAYER JOINTS.
6	HAT SHAPED FURRING CHANNELS 24" O.C. APPLIED AT RIGHT ANGLES TO JOISTS OVER THIRD LAYER WITH TWO 2-1/2" LONG TYPE W DRYWALL SCREWS AT EACH JOIST
7	FACE LAYER - 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO FURRING CHANNELS WITH 1-1/8" TYPE S DRYWALL SCREWS 12" O.C.
ACTUAL FIRE RESISTANCE RATING 2 HOUR FIRE	

ROOF-CEILING ASSEMBLY

(2 HR RAFTERS)

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

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CONSTRUCTION ASSEMBLY

UL - DESIGN NUMBER L556

NOTES	DESCRIPTION
1	FINISHED FLOORING: THE FLOORING MUST CONSIST OF A SINGLE LAYER OF 48/24 SPAN-RATED, TONGUE-AND-GROOVE, WOODBASED, STRUCTURAL-USE (EXPOSURE 1), THE FLOORING MUST BE ATTACHED TO THE RED-JOIST TOP FLANGE WITH AFG-01 CONSTRUCTION ADHESIVE, AND NAILED USING 8D COMMON NAILS SPACED A MAXIMUM OF 6 INCHES (152 MM) ON CENTER ALONG THE BOUNDARY AND EDGES AND 12 INCHES (305 MM) ON CENTER IN THE FIELD. WHEN USED AS A ROOF-CEILING ASSEMBLY, A SINGLE LAYER OF SQUARE-EDGE, SPAN-RATED WOOD-BASED, STRUCTURAL-USE (EXPOSURE 1), COMPLYING WITH THE CODE, IS PERMITTED TO BE USED FOR ROOF SHEATHING. ALL BUTT JOINTS OF THE SHEATHING MUST BE LOCATED OVER FRAMING MEMBERS.
2	CEILING: THE CEILING MEMBRANE MUST CONSIST OF THREE LAYERS OF 5/8-INCH-THICK (15.9 MM EACH) TYPE X GYPSUM BOARD. BASE LAYER TO BE APPLIED AT RIGHT ANGLE WITH 2x8 WOOD JOIST WITH 1-1/4" LONG TYPE W DRYWALL SCREWS AT 12" O.C. SECOND LAYER TO BE APPLIED WITH 2" LONG TYPE W DRYWALL SCREWS AT 12" O.C. THIRD LAYER TO BE APPLIED WITH 2-1/2" LONG TYPE W DRYWALL SCREWS AT 12" O.C. FACE LAYER TO BE APPLIED AT RIGHT ANGLE TO FURRING CHANNELS WITH 1-1/8" TYPE S DRYWALL SCREWS AT 12" O.C.
3	STRUCTURAL MEMBERS: WOOD I-JOISTS AT 24" O.C.
4	RESILIENT CHANNELS: 25 GA HAT SHAPED RESILIENT CHANNELS AT 24" O.C. APPLIED AT RIGHT ANGLES TO JOISTS OVER THIRD LAYER OF 5/8" TYPE X GYPSUM BOARD WITH TWO 2-1/2" LONG TYPE W DRYWALL SCREWS AT EACH JOIST.
ACTUAL FIRE RESISTANCE RATING 2 HOUR FIRE	
FINISHES	
5	1" OF CEMENT TOPPING
6	5/8" TYPE X GYPSUM BOARD

FLOOR CEILING ASSEMBLY

(2 HR RATED CEILING ASSEMBLY)

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

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CONSTRUCTION ASSEMBLY

GA-600-2012 FIRE RESISTANCE DESIGN MANUAL (GA FILE NO. WP 4136)

NOTES	DESCRIPTION
1	2x6 STUDS AT 16" O.C. U.O.N.
2	BASE LAYER - 5/8" TYPE X GYPSUM WALLBOARD OR VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2x6 WOOD STUDS AT 16" O.C. WITH 1-1/4" TYPE W DRYWALL SCREWS 12" O.C. FACE LAYER - 5/8" TYPE X GYPSUM WALLBOARD OR VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE WITH 1-7/8" TYPE W DRYWALL SCREWS 12" O.C. AND OFFSET 8" FROM SCREWS IN BASE LAYER. AT ELEV. AND MECH. SHAFTS REPLACE INNER LAYER OF GYP. WITH QUIETROCK 530 ON SHAFT SIDE. JOINTS STAGGERED 16" EACH LAYER AND SIDE. (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 2 HOUR FIRE	
SOUND RATING 40 TO 44 STC	

STAIR/SHAFT WALL

(2 HOUR WALL)

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

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ALTERNATE ATTACHMENT OPTION

SCREW TO BE USED IN PLACE OF NAILS IN ALL ASSEMBLIES AS ALLOWED BELOW

UL DESIGN INFORMATION SECTION SUPPLEMENTS THE INDIVIDUAL PUBLISHED DESIGNS: NAILS AND SCREWS. SCREWS MEETING ASTM C1002, STANDARD SPECIFICATION FOR STEEL SELF-PIERCING TAPPING SCREWS FOR THE APPLICATION OF GYPSUM PANEL PRODUCTS OR METAL PLASTER BASES TO WOOD STUDS OR STEEL STUDS, MAY BE SUBSTITUTED FOR NAILS, ONE FOR ONE, WHEN THE HEAD DIAMETER, LENGTHS, AND SPACING EQUAL OR EXCEED THE REQUIREMENTS FOR THE SPECIFIED NAILS. GA GENERAL EXPLANATORY NOTES: SCREWS MEETING ASTM C 1002 SHALL BE PERMITTED TO BE SUBSTITUTED FOR THE PRESCRIBED NAILS, ONE FOR ONE, WHEN THE LENGTH AND HEAD DIAMETER OF THE SCREWS EQUAL OR EXCEED THOSE OF THE NAILS SPECIFIED IN THE TESTED SYSTEM AND THE SCREW SPACING DOES NOT EXCEED THE SPACING SPECIFIED FOR THE NAILS IN THE TESTED SYSTEM.

CONSTRUCTION ASSEMBLY

GA-600-2012 FIRE RESISTANCE DESIGN MANUAL (GA FILE NO. RC 2601)

NOTES	DESCRIPTION
1	BASE LAYER - 5/8" TYPE X GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES TO 2x10 WOOD JOISTS 24" O.C. WITH 1 1/4" TYPE W OR S DRYWALL SCREWS 24" O.C. FACE LAYER - 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO JOISTS WITH 1 7/8" TYPE W OR S DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS AND 1 1/2" TYPE G DRYWALL SCREWS 12" O.C. PLACED 2" BACK ON EITHER SIDE OF END JOINTS. JOINTS OFFSET 24" FROM BASE LAYER JOINTS.
2	2x10 MINIMUM WOOD JOISTS 24" o.c.
3	LOOSE FILL OR BATT INSULATION PER PLAN
4	6 MIL. VAPOR BARRIER
ACTUAL FIRE RESISTANCE RATING 1 HOUR FIRE	
SOUND RATING N/A	

ROOF-CEILING ASSEMBLY

(1 HR RAFTERS)

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

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CONSTRUCTION ASSEMBLY

UL DESIGN NUMBER P533

NOTES	DESCRIPTION
1	ROOFING SYSTEM OVER 15# FELT SEE EXTERIOR ELEVATIONS. OVER 15/32" STRUCTURAL PANELS SECURED TO TRUSSES WITH NO. 6d RINGED SHANK NAILS SPACED 12" o.c. ALONG EACH TRUSS. STAPLES HAVING EQUAL OR GREATER WITHDRAWAL AND LATERAL RESISTANCE STRENGTH MAY BE SUBSTITUTED FOR THE 6d NAILS. CONSTRUCTION ADHESIVE MAY BE USED WITH EITHER THE NAILS OR STAPLES.
2	TRUSSES - PITCHED OR PARALLEL CHORD WOOD TRUSSES, SPACED A MAX OF 24 IN. OC, FABRICATED FROM NOM 2 BY 4 LUMBER, WITH LUMBER ORIENTED VERTICALLY OR HORIZONTALLY. TRUSS MEMBERS SECURED TOGETHER WITH 0.0356 IN. THICK GALV STEEL PLATES. PLATES HAVE 5/16 IN. LONG TEETH PROJECTING PERPENDICULAR TO THE PLANE OF THE PLATE. THE TEETH ARE IN Pairs FACING EACH OTHER (MADE BY THE SAME PUNCH), FORMING A SPLIT TOOTH TYPE PLATE. EACH TOOTH HAS A CHISEL POINT ON ITS OUTSIDE EDGE. THESE POINTS ARE DIAGONALLY OPPOSITE EACH OTHER FOR EACH PAIR. THE TOP HALF OF EACH TOOTH HAS A TWIST FOR STIFFNESS. THE PAIRS ARE REPEATED ON APPROXIMATELY 7/8 IN. CENTERS WITH FOUR ROWS OF TEETH PER INCH OF PLATE WIDTH. WHERE THE TRUSS INTERSECTS WITH THE INTERIOR FACE OF THE EXTERIOR WALLS, THE MIN TRUSS DEPTH SHALL BE 5-1/4 IN. WITH A MIN ROOF SLOPE OF 3/12 AND A MIN AREA IN THE PLANE OF THE TRUSS OF 21 SQFT. WHERE THE TRUSS INTERSECTS WITH THE INTERIOR FACE OF THE EXTERIOR WALLS, THE MIN TRUSS DEPTH MAY BE REDUCED TO 3 IN. IF THE BATTS AND BLANKETS (ITEM 3) ARE USED AS SHOWN IN THE ABOVE ILLUSTRATION (ALTERNATE INSULATION PLACEMENT) AND ARE FIRMLY PACKED AGAINST THE INTERSECTION OF THE BOTTOM CHORDS AND THE PLYWOOD SHEATHING.
3	GLASS FIBER OR MINERAL FIBER BATT OR LOOSE FILL INSULATION APPLIED DIRECTLY OVER GYPSUM BOARD. (R-38 BLOW-IN FIBERGLASS INSULATION (ONLY AT LIVING SPACES))
4	RESILIENT CHANNELS - MIN 3/8 IN. DEEP BY MIN 2 IN. WIDE AT THE BASE AND MIN 1-1/4 IN. WIDE AT THE FACE, FORMED FROM 0.020 IN. THICK GALV STEEL. SPACED 12 IN. OC. CHANNELS SECURED TO EACH TRUSS WITH 1-1/4 IN. LONG TYPE S SCREWS. CHANNELS OVERLAPPED 4 IN. AT SPLICES.
5	(5/8" GOLD BOND BRAND FIRE-SHIELD C) - INSTALLED WITH LONG DIMENSION PERPENDICULAR TO RESILIENT CHANNELS WITH 1-1/8 IN. LONG TYPE S SCREWS SPACED 12 IN. OC AND LOCATED A MIN OF 1/2 IN. FROM SIDE JOINTS AND 3 IN. FROM THE END JOINTS. AT END JOINTS, TWO RESILIENT CHANNELS ARE USED, EXTENDING A MIN OF 6 IN. BEYOND BOTH ENDS OF THE JOINT. WHEN INSULATION, ITEM 3 OR 3A, IS DRAPED OVER THE RESILIENT CHANNEL/GYPSUM WALLBOARD CEILING MEMBRANE, SCREWS SHALL BE INSTALLED AT 8 IN. OC.
6	NOTE: AT EXTERIOR ROOFS PROVIDE 1x4s AT 16" O.C. WITH CONTINUOUS VENTED VINYL SOFFIT (WHITE)
7	6 MIL. VAPOR BARRIER AT ALL HEATED SPACES
ACTUAL FIRE RESISTANCE RATING 1 HOUR FIRE	
SOUND RATING N/A	

ROOF-CEILING ASSEMBLY

(1 HR TRUSSES)

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

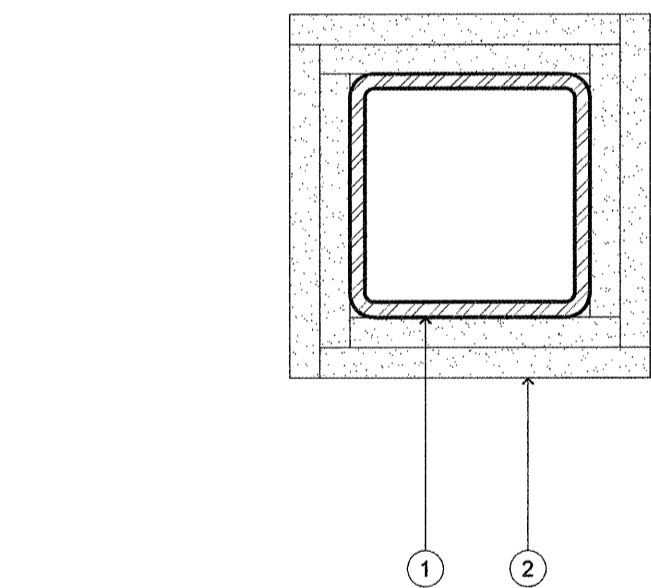
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FLOOR CEILING ASSEMBLY

(2 HR RAFTERS)

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

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CONSTRUCTION ASSEMBLY

IBC TABLE 720.1

NOTES	DESCRIPTION
1	TUBE STEEL COLUMN PER STRUCTURAL
2	#1-1.1 MULTIPLE LAYERS OF 1/2" GYPSUM WALLBOARD ADHESIVELY SECURED TO COLUMN FLANGES AND SUCCESSIVE LAYERS. WALLBOARD APPLIED WITHOUT HORIZONTAL JOINTS. CORNER EDGES OF EACH LAYER STAGGERED. WALLBOARD LAYERS BELOW OUTER LAYER SECURED TO COLUMN WITH DOUBLED 0.040 INCH (NO. 18 B.W. GAGE) STEEL WIRE TIES SPACED 16" ON CENTER. EXPOSED CORNERS TAPED AND TREATED.
ACTUAL FIRE RESISTANCE RATING 1 HOUR FIRE	
SOUND RATING N/A	

T.S. COLUMN

(1 HR)

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

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FLOOR CEILING ASSEMBLY

(2 HR RATED CEILING ASSEMBLY)

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

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ROOF-CEILING ASSEMBLY

(1 HR RAFTERS)

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

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ROOF-CEILING ASSEMBLY

(1 HR TRUSSES)

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

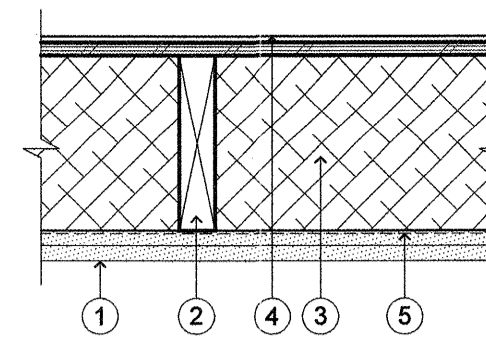
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FLOOR CEILING ASSEMBLY

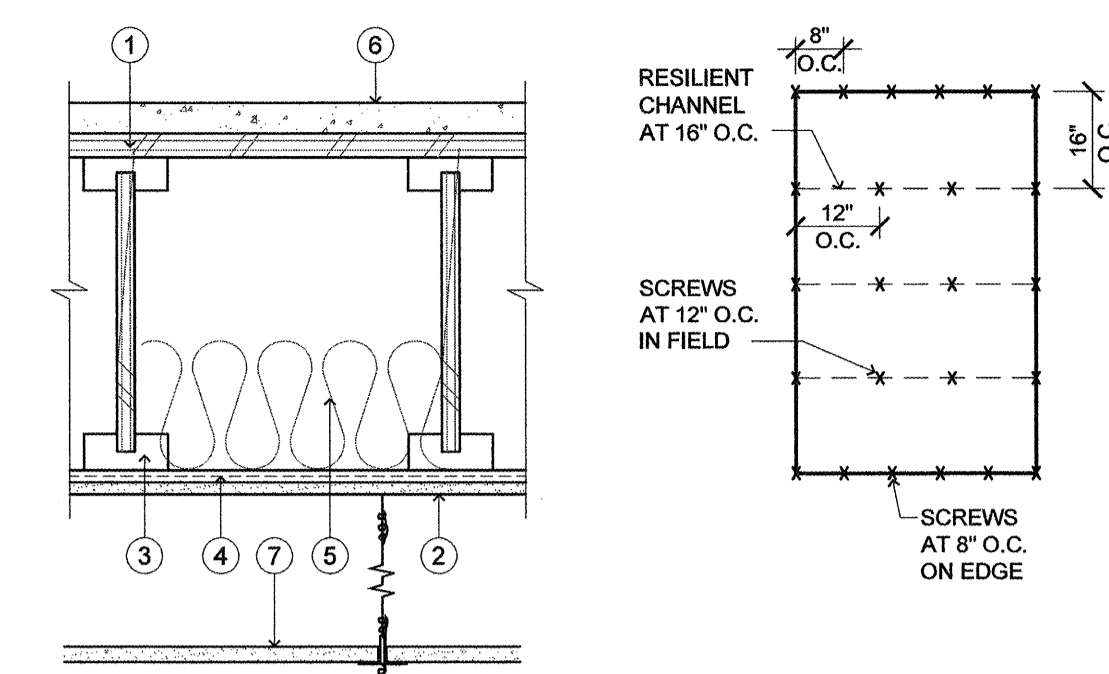
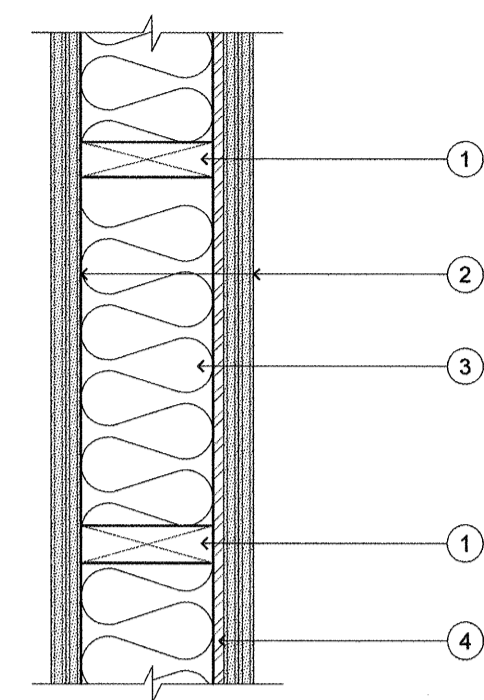
(2 HR RAFTERS)

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

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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

INTERTEK DESIGN NUMBER RBL / SFWT 60-02

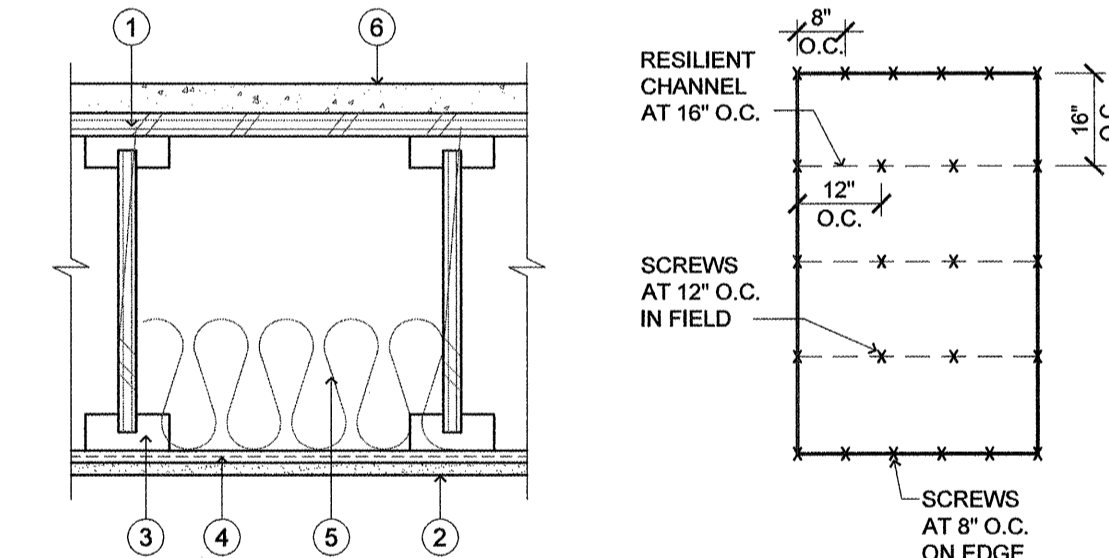
NOTES	DESCRIPTION
1	FLOOR SHEATHING: MIN. 5/8 IN. THICK WOOD SHEATHING, DESIGNED AND INSTALLED PER CODE REQUIREMENTS. WHEN USED AS A ROOF ASSEMBLY, MIN. 1/2 IN. THICK WOOD SHEATHING MAY BE USED, WHEN DESIGNED AND INSTALLED PER CODE REQUIREMENTS.
2	GYPSUM WALLBOARD: MINIMUM 5/8" THICK TYPE "C" GYPSUM 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 IN. OC IN THE FIELD, 8 IN. OC AT WALLBOARD END JOINTS, AND 1-1/2 IN. FROM PANEL EDGES AND ENDS. EDGE JOINTS SHALL BE CENTERED BETWEEN JOISTS. END JOINTS OF WALLBOARD STAGGERED.
3	STRUCTURAL MEMBERS: CERTIFIED COMPANY: REDBUILT LLC CERTIFIED PRODUCT: SHOP FABRICATED WOOD TRUSSES CERTIFIED MODELS: RED-4 JOIST SERIES: RED-I90, RED-I90H AND RED-I90HS. OPEN-WEB TRUSS SERIES: RED-L, RED-W, RED-M AND RED-H. 9-1/4 MIN. DEEP JOISTS SPACED A MAX. OF 24 IN. ON CENTER (OC) (MIN. 1-1/2 IN. X 3-1/2 IN. BOTTOM FLANGE DIMENSIONS). INSTALLED IN ACCORDANCE WITH THE CODE. THE MAX. SPACING MAY BE INCREASED TO 48 IN. IN THE FIELD, 8 IN. OC AT WALLBOARD END JOINTS, AND 1-1/2 IN. FROM PANEL EDGES AND ENDS. EDGE JOINTS SHALL BE CENTERED BETWEEN JOISTS. END JOINTS OF WALLBOARD STAGGERED.
4	RESILIENT CHANNELS: MIN. 0.019 IN. THICK GALVANIZED STEEL RESILIENT CHANNELS, ATTACHED PERPENDICULAR TO JOISTS USING 1-5/8 INCH LONG DRYWALL SCREWS. RESILIENT CHANNELS SPACED A MAX. OF 16 IN. OC. ADDITIONAL CHANNELS ARE REQUIRED AT GYPSUM BOARD END JOINTS SO THAT EACH BOARD IS ATTACHED TO A SEPARATE CHANNEL. THESE ADDITIONAL CHANNELS SHALL EXTEND TO THE NEXT JOIST ON EACH SIDE OF THE BOARD END JOINT.
5	INSULATION: MIN. 3-1/2 IN. THICK MINERAL WOOL INSULATION BATTS - 2.5 PCF (MIN.), FRICTION FITTED BETWEEN THE BOTTOM FLANGES OF THE JOISTS AND SUPPORTED BY RESILIENT CHANNELS. ENDS OF BATTS SHALL BE CENTERED OVER RESILIENT CHANNELS AND TIGHTLY BUTTED.
ACTUAL FIRE RESISTANCE RATING 1 HOUR FIRE	
STC RATING 60 (WITH CEMENT TOPPING AND CARPET/PAD)	
FINISHES - OPTIONAL	
6	1" GYPSUM CONCRETE, LIGHTWEIGHT OR NORMAL CONCRETE TOPPING, WHEN USED AS A ROOF ASSEMBLY, MATERIALS FOR A BUILT-UP ROOF COVERING THAT ARE DESCRIBED IN AN ASSEMBLY THAT PROVIDES A CLASS A, B, OR C RATING ON COMBUSTIBLE WOOD DECKS MAY BE USED.
7	SUSPENDED ACOUSTIC CEILING TILE (NON-RATED)

FLOOR CEILING ASSEMBLY

(2 HR RAFTERS)

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

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CONSTRUCTION ASSEMBLY

INTERTEK DESIGN NUMBER RBL / SFWT 60-02

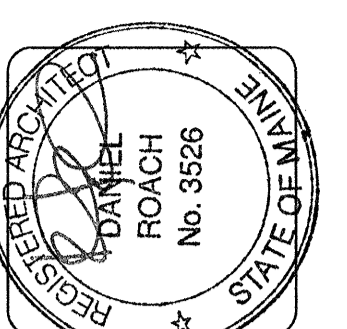
NOTES	DESCRIPTION
1	FLOOR SHEATHING: MIN. 5/8 IN. THICK WOOD SHEATHING, DESIGNED AND INSTALLED PER CODE REQUIREMENTS. WHEN USED AS A ROOF ASSEMBLY, MIN. 1/2 IN. THICK WOOD SHEATHING MAY BE USED, WHEN DESIGNED AND INSTALLED PER CODE REQUIREMENTS.
2	GYPSUM WALLBOARD: MINIMUM 5/8" THICK TYPE "C" GYPSUM 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 IN. OC IN THE FIELD, 8 IN. OC AT WALLBOARD END JOINTS, AND 1-1/2 IN. FROM PANEL EDGES AND ENDS. EDGE JOINTS SHALL BE CENTERED BETWEEN JOISTS. END JOINTS OF WALLBOARD STAGGERED.
3	STRUCTURAL MEMBERS: CERTIFIED COMPANY: REDBUILT LLC CERTIFIED PRODUCT: SHOP FABRICATED WOOD TRUSSES CERTIFIED MODELS: RED-4 JOIST SERIES: RED-I90, RED-I90H AND RED-I90HS. OPEN-WEB TRUSS SERIES: RED-L, RED-W, RED-M AND RED-H. 9-1/4 MIN. DEEP JOISTS SPACED A MAX. OF 24 IN. ON CENTER (OC) (MIN. 1-1/2 IN. X 3-1/2 IN. BOTTOM FLANGE DIMENSIONS). INSTALLED IN ACCORDANCE WITH THE CODE. THE MAX. SPACING MAY BE INCREASED TO 48 IN. IN THE FIELD, 8 IN. OC AT WALLBOARD END JOINTS, AND 1-1/2 IN. FROM PANEL EDGES AND ENDS. EDGE JOINTS SHALL BE CENTERED BETWEEN JOISTS. END JOINTS OF WALLBOARD STAGGERED.
4	RESILIENT CHANNELS: MIN. 0.019 IN. THICK GALVANIZED STEEL RESILIENT CHANNELS, ATTACHED PERPENDICULAR TO JOISTS USING 1-5/8 INCH LONG DRYWALL SCREWS. RESILIENT CHANNELS SPACED A MAX. OF 16 IN. OC. ADDITIONAL CHANNELS ARE REQUIRED AT GYPSUM BOARD END JOINTS SO THAT EACH BOARD IS ATTACHED TO A SEPARATE CHANNEL. THESE ADDITIONAL CHANNELS SHALL EXTEND TO THE NEXT JOIST ON EACH SIDE OF THE BOARD END JOINT.
5	INSULATION: MIN. 3-1/2 IN. THICK MINERAL WOOL INSULATION BATTS - 2.5 PCF (MIN.), FRICTION FITTED BETWEEN THE BOTTOM FLANGES OF THE JOISTS AND SUPPORTED BY RESILIENT CHANNELS. ENDS OF BATTS SHALL BE CENTERED OVER RESILIENT CHANNELS AND TIGHTLY BUTTED.
ACTUAL FIRE RESISTANCE RATING 1 HOUR FIRE	
STC RATING 60 (WITH CEMENT TOPPING AND CARPET/PAD)	
FINISHES - OPTIONAL	
6	FLOOR TOPPING: 1" GYPSUM CONCRETE, LIGHTWEIGHT OR NORMAL CONCRETE TOPPING, WHEN USED AS A ROOF ASSEMBLY, MATERIALS FOR A BUILT-UP ROOF COVERING THAT ARE DESCRIBED IN AN ASSEMBLY THAT PROVIDES A CLASS A, B, OR C RATING ON COMBUSTIBLE WOOD DECKS MAY BE USED.

FLOOR CEILING ASSEMBLY

(2 HR RAFTERS)

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

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802 OCEAN AVE. PORTLAND, MAINE 04103

FLOOR AND WALL TYPES

DATE	REVISION
8/28/2015	
9/22/2015	
2/2/2016	
4/15/2016	
7/18/2016	

SHEET
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