

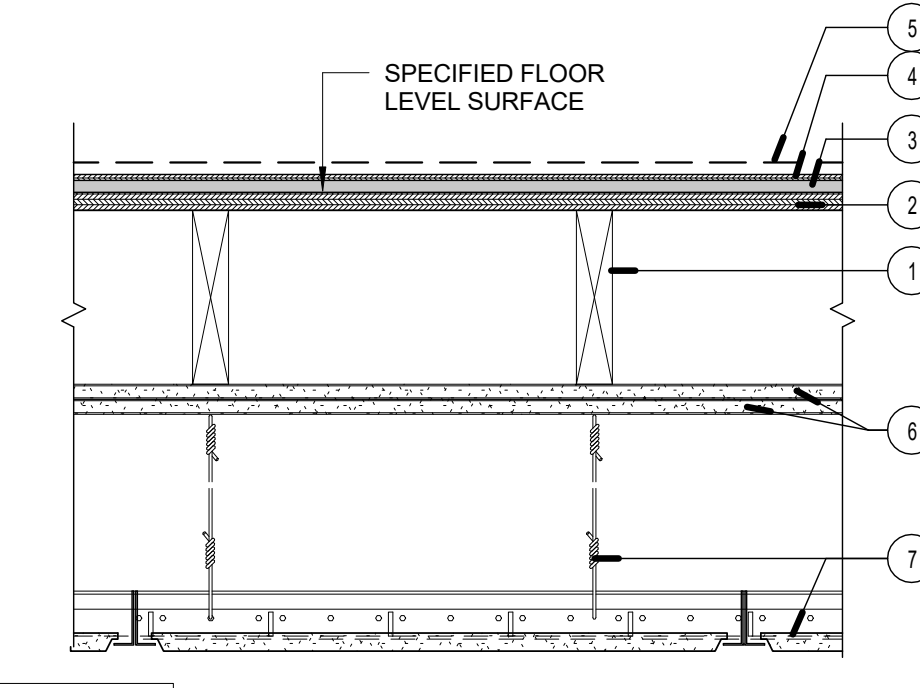
LABEL 1 HR

1 HOUR RATED ROOF ASSEMBLY
GA FILE NO. FC 5522
FIRE TEST: NRCC A-4440.1 (REVISED) 8.24.97
R-61 AVERAGE

1. ROOF JOISTS - TJS SPACED 16" O.C. (SEE STRUCTURAL)
2. ROOF SHEATHING - 5/8" T&G SHEATHING ATTACH TO STRUCTURE WITH 1 1/4" HOT DIPPED MECHANICAL FASTENERS 16" O.C.
3. TAPERED RIGID INSULATION - TAPERED RIGID INSULATION SLOPED AT 1/4" PER 1'-0" WITH FALLS TO ROOF DRAINS R-3 AT MIN DEPTH OF INSUL. R-18 AT AVERAGED DEPTH OF INSUL (ADDED)
4. FIBERBOARD - 1/2" H.D. FIBERBOARD (ADDED)
5. ROOFING - EPDM MEMBRANE ROOFING (ADDED)
6. INSULATION - DENSE PACKED DRY CELLULOSE INSULATION FULL DEPTH OF CEILING SPACE R-43
7. RESILIENT CHANNELS - 1/2" RESILIENT CHANNELS ATTACHED TO ROOF JOIST FRAMING MEMBERS.
8. VAPOR BARRIER - 6 MIL POLY VAPOR BARRIER FASTENED TO STRAPPING AT 24" O.C.
9. GYPSUM SHEATHING - 2 LAYERS 5/8" TYPE X GYPSUM WALLBOARD, BASE LAYER APPLIED AT RIGHT ANGLES TO RESILIENT CHANNELS 16" OC WITH 1 1/4" TYPE S DRYWALL SCREWS 12 IN O.C. FACE LAYER APPLIED AT RIGHT ANGLES TO CHANNELS WITH 1 5/8" TYPE S DRYWALL SCREWS 12" OC. EDGE JOINTS OFFSET 24" FROM BASE LAYER EDGE JOINTS.

5 R2 - 1-HR RATED FLAT ROOF

1 1/2" = 1'-0"



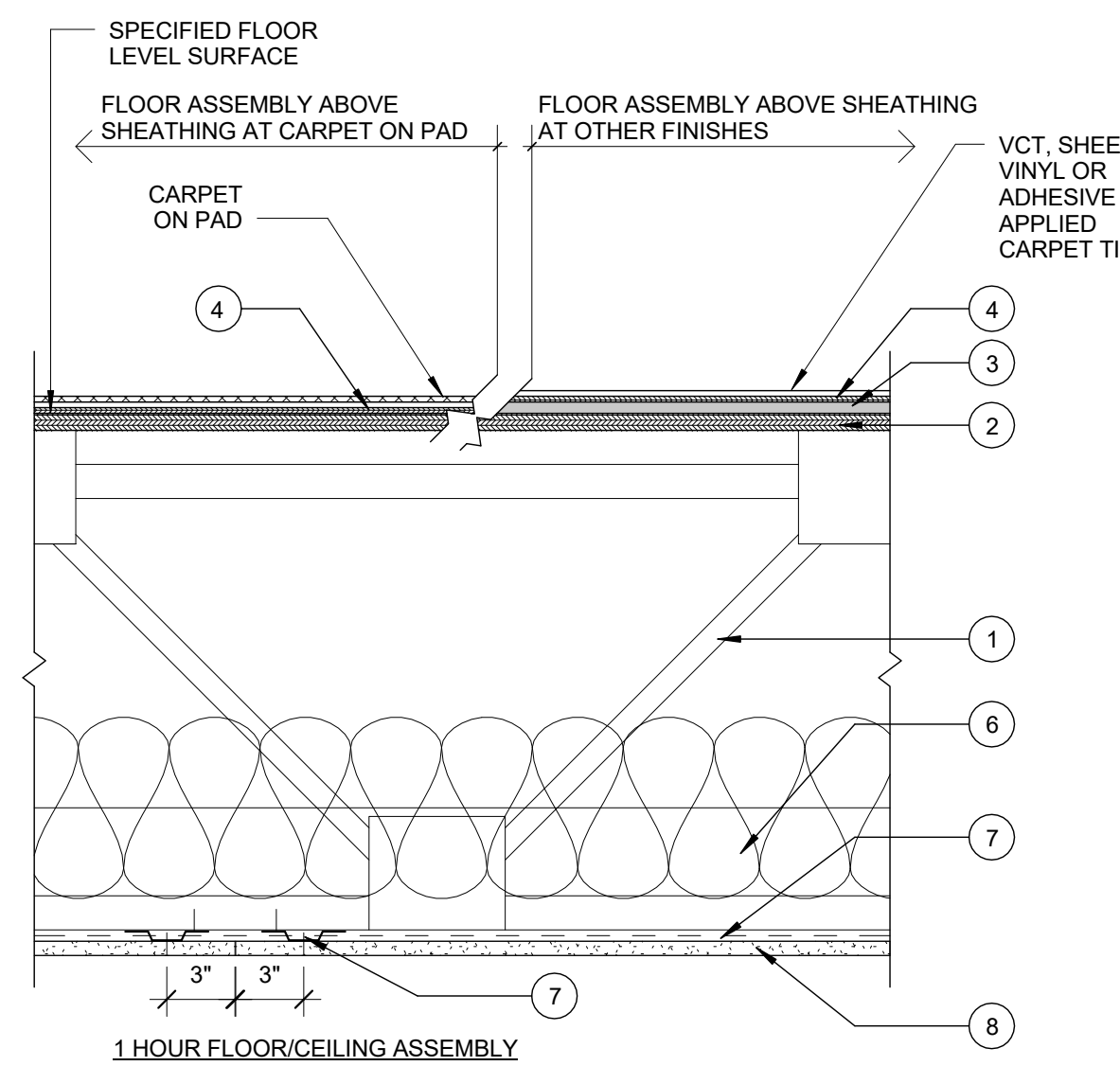
LABEL 1 HR

1 HOUR RATED CEILING/FLOOR ASSEMBLY
GA FILE NO. FC 5406
FIRE TEST: FM FC 172, 2.25.72; ITS, 8.6.98

1. WOOD JOISTS - NOM. 2x8 OR 2X10 WOOD JOISTS @ 10" OR 24" O.C. (SEE STRUCTURAL)
2. SUBFLOORING - 3/4" SHEATHING APPLIED AT RIGHT ANGLES TO JOISTS
3. FLOORING SOUND BARRIER - 1/2" HOMASOTE 440 SOUNDBARRIER (ADDED)
4. FINISH FLOOR UNDERLAYMENT - 3/8" SANDED & PLUGGED CDX PLYWOOD UNDERLAYMENT ORIENTED PERPENDICULAR TO SUBFLOORING (ADDED)
5. FINISH FLOOR - NOT SHOWN. SEE FINISH SCHEDULE
6. GYPSUM SHEATHING - 2 LAYERS 5/8" GYPSUM WALLBOARD BASE LAYER APPLIED AT RIGHT ANGLES TO JOISTS WITH 1 1/4" TYPE W OR S DRYWALL SCREWS AT 24" OC. FACE LAYER APPLIED AT RIGHT ANGLES TO JOISTS WITH 1 7/8" TYPE W OR S DRYWALL SCREWS AT 12" OC AT JOISTS AND INTERMEDIATE JOISTS AND 1 1/2" TYPE G DRYWALL SCREWS 12" OC PLACED 2" BACK ON EITHER SIDE OF END JOINTS. JOINTS OFFSET 24" FROM BASE LAYER JOINTS.
7. ACT CEILING - SUSPENDED ACT CEILING (ADDED)

3 F3 - CEILING/ FLOOR ASSEMBLY - CORRIDOR

1 1/2" = 1'-0"



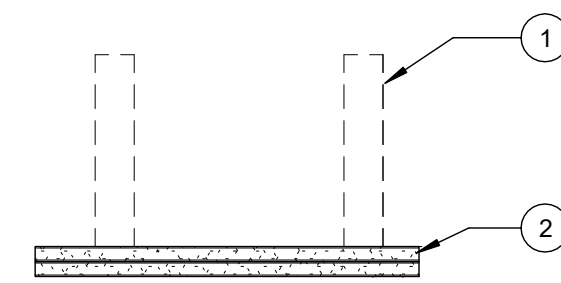
LABEL 1 HR

FLOOR SYSTEM - 1 HOUR
U.L. Design No L528
(STC 54 - IIC 51) F.H.A. - Materials Release No. 930e & 1150d ICBO-Report No. 1016 ICC-ES File No. 04-02-05

1. TRUSSES - PARALLEL CHORD TRUSSES, SPACED A MAX OF 24 IN. OC (SEE STRUCTURALS), FABRICATED FROM NOM 2 BY 4 LUMBER, WITH LUMBER ORIENTED VERTICALLY OR HORIZONTALLY. MIN TRUSS DEPTH IS 12 IN. TRUSS MEMBERS SECURED TOGETHER WITH MIN 0.036 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 APPROX. 7/8 IN. CENTERS WITH FOUR ROWS OF TEETH PER INCH OF PLATE WIDTH.
2. SUBFLOORING - NOM 23/32 IN. THICK WOOD STRUCTURAL PANELS INSTALLED PERPENDICULAR TO TRUSSES WITH END JOINTS STAGGERED. PLYWOOD OR PANELS SECURED TO TRUSSES WITH CONSTRUCTION ADHESIVE AND NO. 6D RINGED SHANK NAILS, SPACED 12 IN. OC ALONG EACH TRUSS. STAPLES HAVING EQUAL OR GREATER WITHDRAWAL AND LATERAL RESISTANCE STRENGTH MAY BE SUBSTITUTED FOR THE 6D NAILS.
3. FLOORING SOUND BARRIER - 1/2" HOMASOTE 440 SOUNDBARRIER.
4. FINISH FLOOR UNDERLAYMENT - UNDERLAYMENT ORIENTED PERPENDICULAR TO SUBFLOORING.
5. -
6. BATTS AND BLANKETS - 8" GLASS FIBER OR MINERAL WOOL INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND/OR FIRE RESISTANCE. WHEN THE RESILIENT CHANNELS ARE SPACED A MAX OF 12 IN. OC THERE IS NO LIMIT IN THE OVERALL THICKNESS OF INSULATION, AND THE INSULATION CAN BE SECURED AGAINST THE SUBFLOORING, HELD SUSPENDED IN THE CONCEALED SPACE OR DRAPED OVER THE RESILIENT OR FURRING CHANNELS AND GYPSUM PANEL MEMBRANE.
7. RESILIENT CHANNELS - FORMED FROM MIN 0.020 IN. THICK GALV STEEL, 1/2 IN. DEEP BY 2-3/8 IN. WIDE AT THE BASE AND 1-3/8 IN. WIDE AT THE FACE AS SHOWN, SPACED 12 IN. OC PERPENDICULAR TO TRUSSES. CHANNELS SECURED TO EACH TRUSS WITH 1-1/4 IN. LONG TYPE S BUGLE HEAD STEEL SCREWS. CHANNELS OVERLAPPED 4 IN. AT SPLICES. TWO CHANNELS, SPACED 6 IN. OC, ORIENTED OPPOSITE EACH OTHER AT GYPSUM PANEL END JOINTS AS SHOWN IN THE ILLUSTRATION. ADDITIONAL CHANNELS SHALL EXTEND MIN 6 IN. BEYOND EACH SIDE EDGE OF PANEL.
8. GYPSUM BOARD - NOM 5/8 IN. THICK, 48 IN. WIDE GYPSUM PANELS. GYPSUM PANELS INSTALLED WITH LONG DIMENSION PERPENDICULAR TO RESILIENT CHANNELS. GYPSUM PANELS SECURED WITH MAX. 1 IN. LONG TYPE S BUGLE HEAD STEEL SCREWS SPACED 12 IN. OC AND LOCATED A MIN OF 1/2 IN. FROM SIDE JOINTS AND 3 IN. FROM THE END JOINTS. END JOINTS SECURED TO BOTH RESILIENT CHANNELS AS SHOWN IN END JOINT DETAIL.

2 FLOOR TYPE F2 - 1HR WOOD TRUSS FLOOR WITH GYP CEILING

1 1/2" = 1'-0"



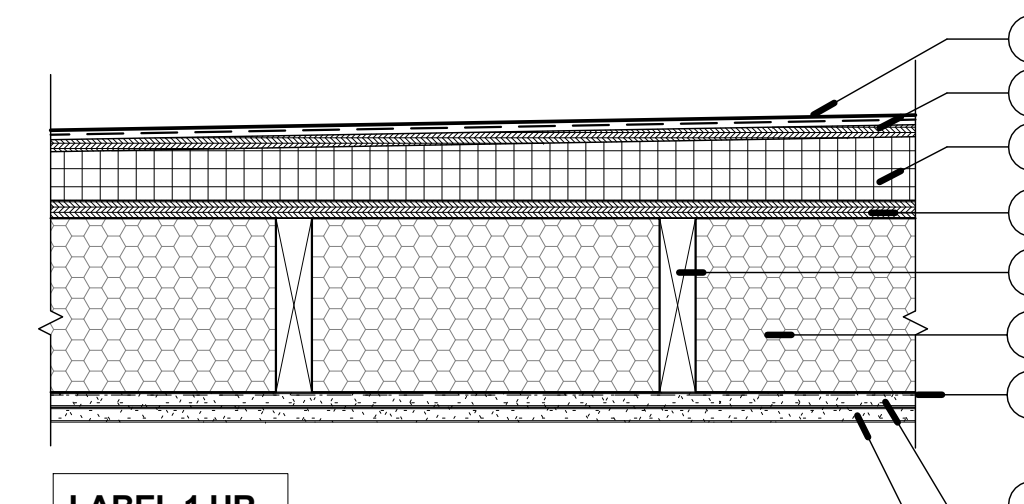
LABEL 1 HR

1 HR RATED CEILING ASSEMBLY
BASED ON GA FILE NOS. FC5406 AND RC2601

1. WOOD OR LIGHT GAUGE METAL FRAMING MEMBERS AT 24" OC
2. GYPSUM BOARD - 2 LAYERS OF 5/8" TYPE X GYPSUM BOARD APPLIED TO FRAMING SPACED 24" O.C. THE BASE LAYER IS APPLIED PERPENDICULAR TO FRAMING AND ATTACHED WITH 1" TYPE S OR S-12 DRYWALL SCREWS FOR METAL FRAMING OR 1 1/4" TYPE W OR S SCREWS FOR WOOD FRAMING SPACED 24" OC. THE FACE LAYER IS APPLIED PERPENDICULAR TO FRAMING AND ATTACHED WITH 1 5/8" TYPE S OR S-12 DRYWALL SCREWS FOR METAL FRAMING OR 1 7/8" TYPE W OR S DRYWALL SCREWS FOR WOOD FRAMING AT 12" O.C. AT END 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 OF THE FACE LAYER ARE OFFSET 24" FROM THE JOINTS IN THE BASE LAYER. FACE LAYER JOINTS AND FASTENERS ARE FINISHED TO LEVEL 1 AS SPECIFIED IN GA-214. LEVELS OF GYPSUM BOARD FINISH.

6 C1 - 1 HR CEILING ASSEMBLY - BASE OF MECH. CHASE

1 1/2" = 1'-0"



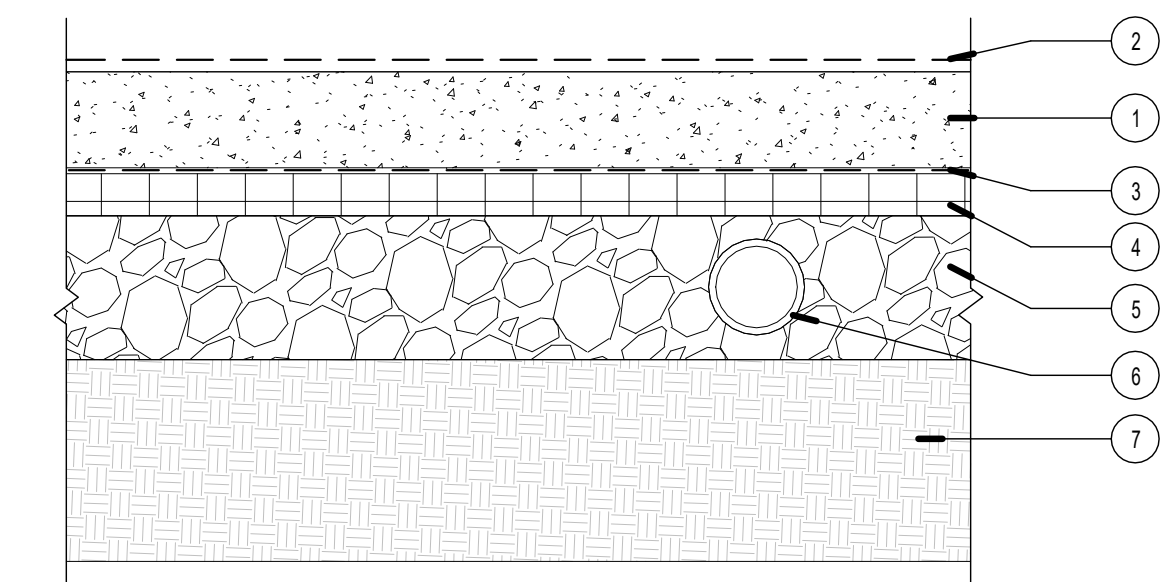
LABEL 1 HR

1 HR RATED CEILING/ROOF ASSEMBLY
GA FILE NO. RC2601
R-58

1. ROOF FRAMING - 2x8 FIRE RETARDANT JOISTS AT 24" OC. OR 2X10 FIRE RETARDANT JOISTS AT 16" OC. - SEE STR.
2. ROOF SHEATHING - 3/4" OSB SHEATHING
3. TAPERED RIGID INSULATION - TAPERED RIGID INSULATION SLOPING 1/4" PER 1'-0" AVERAGE THICKNESS 2 1/2" R-15 AT AVERAGE THICKNESS ABOVE STAIRS AND ELEVATOR. (ADDED)
4. FIBERBOARD - 1/2" H.D. FIBERBOARD OVER TAPERED RIGID INSUL. (ADDED)
5. ROOFING - EPDM MEMBRANE ROOFING
6. INSULATION - 7 1/4 INCH CLOSED-CELL SPRAY FOAM INSULATION R-43.5 (ADDED)
7. VAPOR BARRIER - 6 MIL. POLY VAPOR BARRIER ADHERED TO UNDERSIDE OF STUDS WITH ACOUSTICAL SEALANT. LAP SEAMS MINIMUM 6 IN.
8. GYPSUM SHEATHING - (2) 5/8" TYPE X GYPSUM WALLBOARD. BASE LAYER, APPLIED AT RIGHT ANGLES TO FRAMING WITH 1 1/4" TYPE S-12 DRYWALL SCREWS 24 IN O.C. FACE LAYER APPLIED PARALLEL TO FRAMING WITH 1 5/8" TYPE S-12 DRYWALL SCREWS ALONG EDGES AND 1 1/2" TYPE G SCREWS 12 IN O.C. ALONG FRAMING SUPPORTS. LAP LAYERS OF GYPSUM 24" IN BOTH DIRECTIONS.

4 R1 - 1HR CEILING ASSEMBLY - STAIR & ELEVATOR

1 1/2" = 1'-0"



FLOOR SYSTEM - SLAB ON GRADE

1. FINISH FLOOR - NOT SHOWN. SEE FINISH SCHEDULE.
2. CONCRETE SLAB - SEE STRUCTURAL FOR STRENGTH, THICKNESS AND REINFORCEMENT SPECIFICATIONS
3. VAPOR BARRIER - POLYETHYLENE VAPOR BARRIER SHEET WITH SEAMS OVERLAPPED AND TAPED - SEE SPECIFICATIONS
4. RIGID INSULATION - 1" 30 PSI EXTRUDED POLYSTYRENE - R-5.3 - CONTINUOUS UNDER ENTIRE SLAB
5. 6" COARSE AGGREGATE
6. 4" PERFORATED PVC RADON PIPE - SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION
7. COMPACTED STRUCTURAL - FILL COMPACTED TO 95% OF DRY DENSITY - SEE STRUCTURALS FOR DEPTH AND GRADATION

1 FLOOR TYPE F1 - SLAB ON GRADE

1 1/2" = 1'-0"

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LLP

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Revisions:

Date:
10 AUG 2015

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

FLOOR, CEILING & ROOF
TYPES

A4.01