

1. **Floor-Ceiling Assembly** -- The fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:

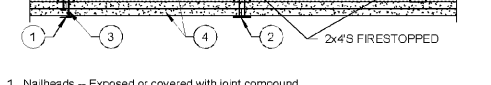
- A. **Floor System** -- Lumber or plywood subfloor with finish floor of lumber, plywood or floor topping mixture as specified in the individual Floor-Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 8 by 12 in.
- B. **Joists** -- 2x10 lumber joists spaced 16" O.C. with 1 x 3 lumber bridging and with end firestopper or alternate to lumber joists, 10" deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required with ends firestopped.
- C. **Furring Channels** -- Resilient galv. steel furring installed perpendicular to wood joist (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.
- D. **Wallboard Gypsum*** -- 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists as specified in the individual Floor-Ceiling Design. Two pieces of gypsum wallboard, each min 4" longer and wider than the cutout in the flooring, screw-attached to bottom of flooring concentric with cutout. Diam of opening hole-sawed through both layers of the gyp. wallboard patch to be 1/2 to 5/8 in. larger than outside diam. of bathtub drain piping (Item 2).

- 2. **Drain Piping** -- 1-1/2" diam. Schedule 40 polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) pipes and drain fittings cemented together and provided with PVC or ABS bathtub/wastef overflow fittings, respectively.
- 3. **Firestop System** -- The firestop system shall consist of the following:
 - A. **Fill Void or Cavity Materials*** -- Wrap Strip -- 1/4" thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. x 1-1/2" wide aluminum flange and slid into hole-sawed opening in gypsum wallboard patch (Item 1D). Top edge of wrap strip to extend a 1/2" below above top surface of gyp. wallboard patch. Specified Technologies Inc. -- Spec-Seal RED Strip
 - B. **Fill Void or Cavity Materials*** -- Sealant -- 1/4" thickness of fill material to be applied to perimeter of wrap strip at it's egress from the underside of the gypsum wallboard patch; 1/4" thickness of fill material to be applied to the exposed edge of the wrap strip layer and to fill all gaps between the wrap strip layer and the tee of the drain fitting on the top surface of the gypsum wallboard patch. Specified Technologies Inc. -- Spec-Seal 100, 101 or 106 Sealant

2. **FLOOR PENETRATION AT TUB**
UL SYSTEM NO. F-C-2038
F RATING - 1 HOUR
T RATING - 1 HOUR



- 1. **Naillheads** -- Exposed or covered with joint compound
- 2. **Joists** -- Exposed or covered with fiber tape and joint finisher. As an alternate, 3/32" thick gyp. veneer plaster may be applied to the entire surface of classified veneer baseboard. Joints reinforced.
- 3. **Nails** -- 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4" diam heads, and 8d cement coated nails 2-3/8 in. long, 0.0113 in. shank diam, 9/32" diam. heads
- 4. **Wallboard Gypsum*** -- 5/8" thick two layers applied either horizontally or vertically. Inner layer attached to studs with either 1-7/8" nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8" long nails spaced 8" O.C. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.



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- AMERICAN GYPSUM CO-Types AG-C, AGX-11, AGX-C, AGX-12, AGX-13, AGX-14, AGX-15, AGX-16, AGX-17, AGX-18, AGX-19, AGX-20, AGX-21, AGX-22, AGX-23, AGX-24, AGX-25, AGX-26, AGX-27, AGX-28, AGX-29, AGX-30, AGX-31, AGX-32, AGX-33, AGX-34, AGX-35, AGX-36, AGX-37, AGX-38, AGX-39, AGX-40, AGX-41, AGX-42, AGX-43, AGX-44, AGX-45, AGX-46, AGX-47, AGX-48, AGX-49, AGX-50, AGX-51, AGX-52, AGX-53, AGX-54, AGX-55, AGX-56, AGX-57, AGX-58, AGX-59, AGX-60, AGX-61, AGX-62, AGX-63, AGX-64, AGX-65, AGX-66, AGX-67, AGX-68, AGX-69, AGX-70, AGX-71, AGX-72, AGX-73, AGX-74, AGX-75, AGX-76, AGX-77, AGX-78, AGX-79, AGX-80, AGX-81, AGX-82, AGX-83, AGX-84, AGX-85, AGX-86, AGX-87, AGX-88, AGX-89, AGX-90, AGX-91, AGX-92, AGX-93, AGX-94, AGX-95, AGX-96, AGX-97, AGX-98, AGX-99, AGX-100

- BELING NEW BUILDING MATERIALS CO LTD- Type DBX-1.
- BPB AMERICA INC
- BPB CELOTEX- Type 1 or FRP.
- CANADIAN GYPSUM COMPANY- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX SHX, WRC, WRX, WRCX, WRCX-G, WRCX-G-1, WRCX-G-2, WRCX-G-3, WRCX-G-4, WRCX-G-5, WRCX-G-6, WRCX-G-7, WRCX-G-8, WRCX-G-9, WRCX-G-10, WRCX-G-11, WRCX-G-12, WRCX-G-13, WRCX-G-14, WRCX-G-15, WRCX-G-16, WRCX-G-17, WRCX-G-18, WRCX-G-19, WRCX-G-20, WRCX-G-21, WRCX-G-22, WRCX-G-23, WRCX-G-24, WRCX-G-25, WRCX-G-26, WRCX-G-27, WRCX-G-28, WRCX-G-29, WRCX-G-30, WRCX-G-31, WRCX-G-32, WRCX-G-33, WRCX-G-34, WRCX-G-35, WRCX-G-36, WRCX-G-37, WRCX-G-38, WRCX-G-39, WRCX-G-40, WRCX-G-41, WRCX-G-42, WRCX-G-43, WRCX-G-44, WRCX-G-45, WRCX-G-46, WRCX-G-47, WRCX-G-48, WRCX-G-49, WRCX-G-50, WRCX-G-51, WRCX-G-52, WRCX-G-53, WRCX-G-54, WRCX-G-55, WRCX-G-56, WRCX-G-57, WRCX-G-58, WRCX-G-59, WRCX-G-60, WRCX-G-61, WRCX-G-62, WRCX-G-63, WRCX-G-64, WRCX-G-65, WRCX-G-66, WRCX-G-67, WRCX-G-68, WRCX-G-69, WRCX-G-70, WRCX-G-71, WRCX-G-72, WRCX-G-73, WRCX-G-74, WRCX-G-75, WRCX-G-76, WRCX-G-77, WRCX-G-78, WRCX-G-79, WRCX-G-80, WRCX-G-81, WRCX-G-82, WRCX-G-83, WRCX-G-84, WRCX-G-85, WRCX-G-86, WRCX-G-87, WRCX-G-88, WRCX-G-89, WRCX-G-90, WRCX-G-91, WRCX-G-92, WRCX-G-93, WRCX-G-94, WRCX-G-95, WRCX-G-96, WRCX-G-97, WRCX-G-98, WRCX-G-99, WRCX-G-100

- G-P GYPSUM CORP. SUB OF GEORGIA-PACIFIC CORP- Types 5, 9, C, DGG, DS, GPFSS
- JAMES HARDIE GYPSUM INC- Types Fire X, Max'CC
- LAFARGE NORTH AMERICA INC- Types LGFC-C, LGFC2, LGFC2A, LGFC2B, LGFC2C, LGFC2D, LGFC2E, LGFC2F, LGFC2G, LGFC2H, LGFC2I, LGFC2J, LGFC2K, LGFC2L, LGFC2M, LGFC2N, LGFC2O, LGFC2P, LGFC2Q, LGFC2R, LGFC2S, LGFC2T, LGFC2U, LGFC2V, LGFC2W, LGFC2X, LGFC2Y, LGFC2Z, LGFC2AA, LGFC2AB, LGFC2AC, LGFC2AD, LGFC2AE, LGFC2AF, LGFC2AG, LGFC2AH, LGFC2AI, LGFC2AJ, LGFC2AK, LGFC2AL, LGFC2AM, LGFC2AN, LGFC2AO, LGFC2AP, LGFC2AQ, LGFC2AR, LGFC2AS, LGFC2AT, LGFC2AU, LGFC2AV, LGFC2AW, LGFC2AX, LGFC2AY, LGFC2AZ, LGFC2BA, LGFC2BB, LGFC2BC, LGFC2BD, LGFC2BE, LGFC2BF, LGFC2BG, LGFC2BH, LGFC2BI, LGFC2BJ, LGFC2BK, LGFC2BL, LGFC2BM, LGFC2BN, LGFC2BO, LGFC2BP, LGFC2BQ, LGFC2BR, LGFC2BS, LGFC2BT, LGFC2BU, LGFC2BV, LGFC2BW, LGFC2BX, LGFC2BY, LGFC2BZ, LGFC2CA, LGFC2CB, LGFC2CC, LGFC2CD, LGFC2CE, LGFC2CF, LGFC2CG, LGFC2CH, LGFC2CI, LGFC2CJ, LGFC2CK, LGFC2CL, LGFC2CM, LGFC2CN, LGFC2CO, LGFC2CP, LGFC2CQ, LGFC2CR, LGFC2CS, LGFC2CT, LGFC2CU, LGFC2CV, LGFC2CW, LGFC2CX, LGFC2CY, LGFC2CZ, LGFC2DA, LGFC2DB, LGFC2DC, LGFC2DD, 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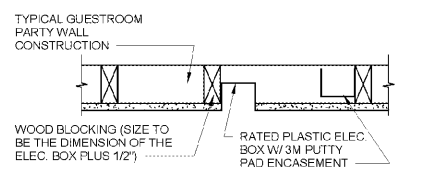
- NORGIPS ABS - NORFIRE X, NORFIRE XA
- PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC - Type C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5S, PG-9, or PG-C
- TEMPLE-INLAND FOREST PRODUCTS CORP - Type TG-C
- SIAM GYPSUM INDUSTRY CO LTD - Type EX-1
- STANDARD GYPSUM L.L.C - Type SGC, SG-C, or SGC-G
- UNITED STATES GYPSUM CO - Type AR, C, FRX, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SH-X, WRC, WRX, WRCX, WRCX-G, WRCX-G-1, WRCX-G-2, WRCX-G-3, WRCX-G-4, WRCX-G-5, WRCX-G-6, WRCX-G-7, WRCX-G-8, WRCX-G-9, WRCX-G-10, WRCX-G-11, WRCX-G-12, WRCX-G-13, WRCX-G-14, WRCX-G-15, WRCX-G-16, WRCX-G-17, WRCX-G-18, WRCX-G-19, WRCX-G-20, WRCX-G-21, WRCX-G-22, WRCX-G-23, WRCX-G-24, WRCX-G-25, WRCX-G-26, WRCX-G-27, WRCX-G-28, WRCX-G-29, WRCX-G-30, WRCX-G-31, WRCX-G-32, WRCX-G-33, WRCX-G-34, WRCX-G-35, WRCX-G-36, WRCX-G-37, WRCX-G-38, WRCX-G-39, WRCX-G-40, WRCX-G-41, WRCX-G-42, WRCX-G-43, WRCX-G-44, WRCX-G-45, WRCX-G-46, WRCX-G-47, WRCX-G-48, WRCX-G-49, WRCX-G-50, WRCX-G-51, WRCX-G-52, WRCX-G-53, WRCX-G-54, WRCX-G-55, WRCX-G-56, WRCX-G-57, WRCX-G-58, WRCX-G-59, WRCX-G-60, WRCX-G-61, WRCX-G-62, WRCX-G-63, WRCX-G-64, WRCX-G-65, WRCX-G-66, WRCX-G-67, WRCX-G-68, WRCX-G-69, WRCX-G-70, WRCX-G-71, WRCX-G-72, WRCX-G-73, WRCX-G-74, WRCX-G-75, WRCX-G-76, WRCX-G-77, WRCX-G-78, WRCX-G-79, WRCX-G-80, WRCX-G-81, WRCX-G-82, WRCX-G-83, WRCX-G-84, WRCX-G-85, WRCX-G-86, WRCX-G-87, WRCX-G-88, WRCX-G-89, WRCX-G-90, WRCX-G-91, WRCX-G-92, WRCX-G-93, WRCX-G-94, WRCX-G-95, WRCX-G-96, WRCX-G-97, WRCX-G-98, WRCX-G-99, WRCX-G-100

- WESTROC INC - Type Westroc Fi-Rok
- USG MEXICO S A DE C V - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

- 4B. **Gypsum Board*** -- (As an alternate to Item 4 and 4A) - 5/8 in. thick 2 1/2 wide, long and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in item 4. Joint covering (Item 2) not required.

- ASSOCIATED MATERIALS INC
- ALSIDE, DIV OF
- GENTEK BUILDING PRODUCTS LTD
- HEARTLAND BUILDING PRODUCTS INC
- WYTEC CORP
- NEBRASKA PLASTICS INC

1. **WALL ASSEMBLY**
UL DESIGN NO. U031
(INTERIOR WALLS)
BEARING WALL RATING - 2 HOUR
FINISH RATING - 95 MIN



4. **WALL OPENING PROTECTIVE MATERIALS (CLIV)**
UL DESIGN NO. UL R9700 (N)
1 1/2" = 1'-0"

The category covers proprietary compositions which are used to maintain the hourly ratings of fire resistive walls containing flush mounted devices such as outlet boxes electrical cabinets and mechanical cabinets. The individual classifications indicate the specific applications and the method of installation for which the materials have been evaluated. The basic standard used to investigate products in this category is ANSI/UL 263, "Fire test of building construction and materials".

Look for classification marking on product.

This classification marking of underwriters laboratories, inc. (shown above) on the product of container is the only method provided by underwriters laboratories, inc. Wall opening protective materials produced to identify under its classification and follow-up service.

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

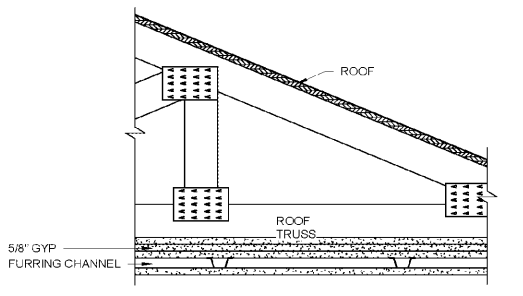
UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR

UL SYSTEM NO. W-L-2137
F RATING - 1 HOUR
T RATING - 1 HOUR



7. **CEILING/ROOF ASSEMBLY**
UL DESIGN L556
WOOD ROOF TRUSSES, GYPSUM WALLBOARD, RIGID FURRING CHANNELS
APPROXIMATE