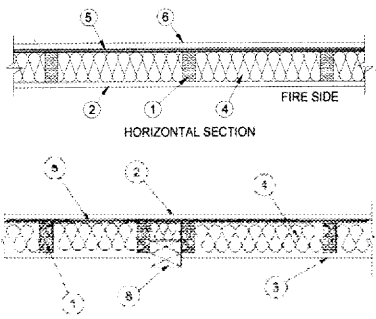


TYPICAL EXTERIOR WALL ASSEMBLY

DESIGN NO. U306
November 21, 2011
(OBSOLETE TO USE IN INTERIOR FACE ONLY)
FINISH RATINGS - See Items 3, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J and 3L.
LOAD RESTRICTED FOR CANADIAN APPLICATIONS - See Guide B047



1. WOOD STRUCTURAL PANEL OR LAP SIDING - ASPR BATED SIDING, EXTERIOR, PLIWOOD, OSB OR COMPOSITE PANELS WITH VENEER FACES AND STRUCTURAL WOOD CORE, PER PSI OR APL STANDARD PER-106, INCLUDING TYPICAL ROUGH SAND, MEDIUM DENSITY OVERLAY, BRUSHED, GROOVED AND LAP SIDING. FINISH RATINGS - 1 HR.

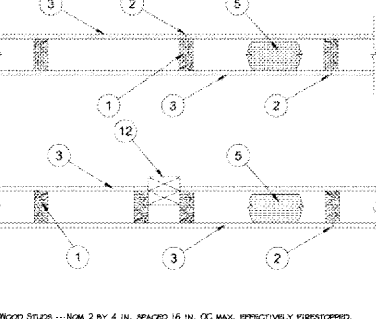
2. GYPSUM BOARD - (AS AN ALTERNATE TO ITEM 2, NOT SHOWN) - 5/8 IN. THICK 4 FT. WIDE GYPSUM PANELS APPLIED VERTICALLY AND ATTACHED TO STUDS AND BEARING PLATES WITH 1/4 IN. LONG TYPE W COARSE THREAD GYPSUM PANEL STEEL SCREWS SPACED 24 IN. OC.

3. GYPSUM BOARD - (AS AN ALTERNATE TO ITEM 2, NOT SHOWN) - 5/8 IN. THICK 4 FT. WIDE GYPSUM PANELS APPLIED VERTICALLY AND ATTACHED TO STUDS AND BEARING PLATES WITH 1/4 IN. LONG TYPE W COARSE THREAD GYPSUM PANEL STEEL SCREWS SPACED 24 IN. OC.

4. FINISH CHASSEL - FORMED OF NO. 25 MGS GALV STEEL, 2-3/8 IN. WIDE BY 7/8 IN. DEEP, SPACED 24 IN. OC. PERPENDICULAR TO STUDS. CHANNELS SECURED TO STUDS AS DESCRIBED IN ITEM 6. ENDS OF ADJOINING CHANNELS ARE OVERLAPPED 6 IN. AND TIED TOGETHER WITH DOUBLE STRAND OF NO. 18 SWS GALV STEEL WIRE NEAR EACH END OF OVERLAP.

TYPICAL INTERIOR BEARING WALL ASSEMBLY

DESIGN NO. U305
January 30, 2012
FINISH RATINGS - 1 HR.
LOAD RESTRICTED FOR CANADIAN APPLICATIONS - See Guide B047



1. WOOD STRUCTURAL PANEL OR LAP SIDING - ASPR BATED SIDING, EXTERIOR, PLIWOOD, OSB OR COMPOSITE PANELS WITH VENEER FACES AND STRUCTURAL WOOD CORE, PER PSI OR APL STANDARD PER-106, INCLUDING TYPICAL ROUGH SAND, MEDIUM DENSITY OVERLAY, BRUSHED, GROOVED AND LAP SIDING. FINISH RATINGS - 1 HR.

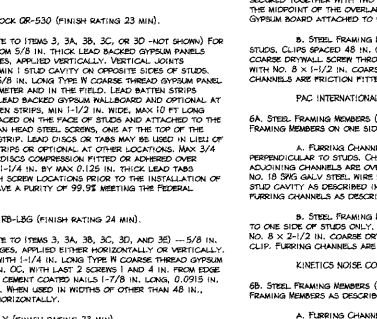
2. GYPSUM BOARD - (AS AN ALTERNATE TO ITEM 2, NOT SHOWN) - 5/8 IN. THICK 4 FT. WIDE GYPSUM PANELS APPLIED VERTICALLY AND ATTACHED TO STUDS AND BEARING PLATES WITH 1/4 IN. LONG TYPE W COARSE THREAD GYPSUM PANEL STEEL SCREWS SPACED 24 IN. OC.

3. GYPSUM BOARD - (AS AN ALTERNATE TO ITEM 2, NOT SHOWN) - 5/8 IN. THICK 4 FT. WIDE GYPSUM PANELS APPLIED VERTICALLY AND ATTACHED TO STUDS AND BEARING PLATES WITH 1/4 IN. LONG TYPE W COARSE THREAD GYPSUM PANEL STEEL SCREWS SPACED 24 IN. OC.

4. FINISH CHASSEL - FORMED OF NO. 25 MGS GALV STEEL, 2-3/8 IN. WIDE BY 7/8 IN. DEEP, SPACED 24 IN. OC. PERPENDICULAR TO STUDS. CHANNELS SECURED TO STUDS AS DESCRIBED IN ITEM 6. ENDS OF ADJOINING CHANNELS ARE OVERLAPPED 6 IN. AND TIED TOGETHER WITH DOUBLE STRAND OF NO. 18 SWS GALV STEEL WIRE NEAR EACH END OF OVERLAP.

TYPICAL 4" PIPE PENETRATION

DESIGN NO. U304
November 21, 2011
FINISH RATINGS - 1 HR.



1. WALL ASSEMBLY - THE 4 IN. FIRE-RATED GYPSUM BOARD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

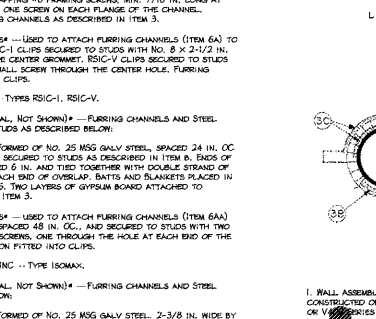
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9).

B. GYPSUM BOARD - 5/8 IN. (16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENERS TYPE AND FASTENMENT ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIA OF OPENING IS 3-1/8 IN. (79 MM).

C. BATTLS AND BLANKETS - MINERAL FIBER OR GLASS FIBER INSULATION, 3-1/2 IN. THICK, PREPARED TO FIT INSULATION BETWEEN STUDS AND PARTS. INSULATION SHALL BE APPLIED TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY SHALL BE 0.30 LB/FT3.

TYPICAL 2" PIPE PENETRATION

DESIGN NO. U303
November 21, 2011
FINISH RATINGS - 1 HR.



1. WALL ASSEMBLY - THE 2 IN. FIRE-RATED GYPSUM BOARD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

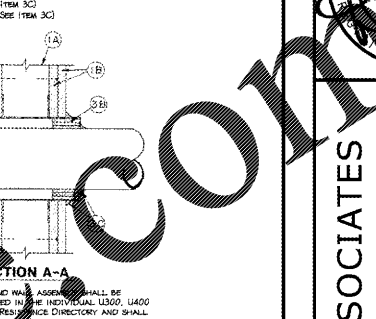
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9).

B. GYPSUM BOARD - 5/8 IN. (16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENERS TYPE AND FASTENMENT ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIA OF OPENING IS 3-1/8 IN. (79 MM).

C. BATTLS AND BLANKETS - MINERAL FIBER OR GLASS FIBER INSULATION, 3-1/2 IN. THICK, PREPARED TO FIT INSULATION BETWEEN STUDS AND PARTS. INSULATION SHALL BE APPLIED TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY SHALL BE 0.30 LB/FT3.

TYPICAL 2" PIPE PENETRATION

DESIGN NO. U302
November 21, 2011
FINISH RATINGS - 1 HR.



1. WALL ASSEMBLY - THE 2 IN. FIRE-RATED GYPSUM BOARD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

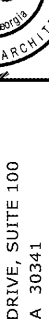
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9).

B. GYPSUM BOARD - 5/8 IN. (16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENERS TYPE AND FASTENMENT ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIA OF OPENING IS 3-1/8 IN. (79 MM).

C. BATTLS AND BLANKETS - MINERAL FIBER OR GLASS FIBER INSULATION, 3-1/2 IN. THICK, PREPARED TO FIT INSULATION BETWEEN STUDS AND PARTS. INSULATION SHALL BE APPLIED TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY SHALL BE 0.30 LB/FT3.

TYPICAL 2" PIPE PENETRATION

DESIGN NO. U301
November 21, 2011
FINISH RATINGS - 1 HR.



1. WALL ASSEMBLY - THE 2 IN. FIRE-RATED GYPSUM BOARD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9) OR NOM 2 BY 4 IN. (51 BY 102 MM) LxS UNFINISHED STUDS (1.9).

B. GYPSUM BOARD - 5/8 IN. (16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENERS TYPE AND FASTENMENT ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIA OF OPENING IS 3-1/8 IN. (79 MM).

C. BATTLS AND BLANKETS - MINERAL FIBER OR GLASS FIBER INSULATION, 3-1/2 IN. THICK, PREPARED TO FIT INSULATION BETWEEN STUDS AND PARTS. INSULATION SHALL BE APPLIED TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY SHALL BE 0.30 LB/FT3.

STATE OF ALABAMA ENGINEERING ARCHITECTS BOBO FAMILY GROUP HUNTSVILLE, ALABAMA ALEXANDRIA AN APARTMENT COMMUNITY FOR BOBO FAMILY GROUP HUNTSVILLE, ALABAMA ENGLISH & ASSOCIATES ARCHITECTS, INC. 3084 MERCER UNIVERSITY DRIVE, SUITE 100 ATLANTA, GEORGIA 30341 DENGUSH@ENGLISHASSOCIATESINC.COM

JOB PROGRESS: ITEM: DATE:

REVISIONS: TAG: DATE:

JOB NUMBER: DRAWN BY: CHECKED BY: UL SHEET SHEET NO. A0.5