

SPECIFICATIONS:

SECTION 08 71 00 / FINISH HARDWARE

1. PROVIDE A ROOM WITH SUFFICIENT SPACE AND SHELVING IN WHICH TO STORE AND ARRANGE THE FINISH HARDWARE. THIS ROOM SHALL BE LOCKED WITH A LOCK FURNISHED FOR THIS PROJECT. PROTECT HARDWARE FROM DAMAGE BOTH PRIOR TO AND AFTER INSTALLATION. TAG AND TURN KEYS OVER TO OWNER UPON COMPLETION OF THE WORK. HARDWARE SHALL BE ADA COMPLIANT.
2. WHILE THE FOLLOWING HARDWARE LIST IS INTENDED TO COVER DOORS AND ESTABLISH A TYPE AND STANDARD OF QUALITY, WHERE THE SIZE AND SHAPE OF MEMBERS TO BE EQUIPPED WITH HARDWARE PREVENTS OR MAKES UNSUITABLE THE USE OF EXACT TYPES SPECIFIED, FURNISH SUITABLE TYPES HAVING AS NEARLY AS PRACTICABLE THE SAME OPERATION, FUNCTION, STYLE AND QUALITY AS THAT SPECIFIED.
3. SIZES SHALL BE ADEQUATE FOR THE SERVICE TO WHICH THE INDIVIDUAL ITEMS OF HARDWARE WILL BE SUBJECTED IN THE COURSE OF NORMAL USAGE. EXAMINE THE SPECIFICATIONS, PLANS AND DETAILS, AND FURNISH THE PROPER HARDWARE, WHETHER LISTED OR NOT. IF THERE ARE OMISSIONS IN THE HARDWARE GROUPS IN REGARD TO REGULAR DOORS, THEY SHALL BE CALLED TO THE ATTENTION OF ARCHITECT FOR INSTRUCTIONS PRIOR TO BID OPENING, OTHERWISE, THE LIST WILL BE CONSIDERED COMPLETE.
4. SUBMIT SHOP DRAWINGS COMPLYING WITH SECTION 01 33 00 FOR WORK IN THIS SECTION.
5. PRIOR TO DELIVERY, PREPARE AND SUBMIT TO ARCHITECT, 5 COPIES OF A COMPLETE HARDWARE SCHEDULE. THE SCHEDULE SHALL INDICATE DOOR NUMBER AND LOCATION, QUANTITY, MANUFACTURER'S NUMBER, SIZE AND FINISH ALONG WITH PERTINENT INFORMATION FOR MANUFACTURING AND INSTALLATION. EACH ITEM ON THE SCHEDULE SHALL HAVE AN ITEM NUMBER. THE SCHEDULE SHALL INCLUDE KEYING INSTRUCTIONS.

TEMPLATE HARDWARE

6. HARDWARE SUPPLIED TO METAL DOORS OR JAMBS SHALL BE MADE TO TEMPLATE AND SECURED BY MACHINE SCREWS, WHERE CYLINDRICAL LOCKS ARE USED IN HOLLOW METAL DOORS, FURNISH LOCK REINFORCING IN THE DOOR AT THE TIME OF MANUFACTURE.
7. FURNISH FINISH HARDWARE WITH SCREWS, BOLTS, OR OTHER FASTENINGS OF SUITABLE SIZE AND TYPE TO ANCHOR THE HARDWARE IN POSITION FOR HEAVY USE AND TO HARMONIZE WITH THE HARDWARE AS TO MATERIAL AND FINISH. FURNISH FASTENINGS WHERE NECESSARY WITH EXPANSION SHIELDS, SEX BOLTS, TOGGLE BOLTS, AND OTHER APPROVED ANCHORS ACCORDING TO THE MATERIAL TO WHICH IT IS APPLIED, AND AS RECOMMENDED BY THE MANUFACTURER. FURNISH HARDWARE FASTENED TO CONCRETE WITH MACHINE SCREWS AND TAMP INS. FASTENERS FOR CLOSERS ON WOOD OR MINERAL CORE DOORS SHALL BE SEX BOLTS.

GUARANTEE

7. GUARANTEE HARDWARE FOR A PERIOD OF 2 YEARS FROM DATE OF ACCEPTANCE OF WORK. DEFECTS IN MATERIALS AND WORKSMANSHIP OCCURRING DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT NO EXPENSE TO THE OWNER.

PRODUCTS

8. REFER TO DOOR SCHEDULE FOR SPECIFIC MANUFACTURER
9. EXTERIOR OUT-SWINGING DOORS SHALL HAVE BUTTS WITH NON-REMOVABLE PIN WHEN THE DOOR IS CLOSED. DOORS SHALL HAVE BALL BEARING BUTTS. BUTTS SHALL BE SIZED IN WIDTH TO CLAMP TRIM.
10. DOORS 1_3/4" THICK AND UP TO 36" WIDE SHALL HAVE 3 (1-1/2 PAIR) 1_1/2" BUTTS
11. DOORS 1_3/4" THICK AND 37" TO 48" WIDE SHALL HAVE 3 (1-1/2 PAIR) 5" BUTTS.
12. DOORS 8'- 0" AND ABOVE SHALL HAVE 4 (2 PAIR) 5" BUTTS.

13. CLOSERS: MANUFACTURED BY LCN. OVERHEAD, SURFACE APPLIED; UNLESS CONCEALED IS DESIGNATED FOR ENTRANCE DOORS.

14. LOCKS AND LATCHES: MANUFACTURED BY SCHLAGE

15. CYLINDERS FOR LOCKS SHALL HAVE 6 PIN TUMBLERS. CYLINDERS SHALL BE REMOVABLE WITH CHANGE KEY WITHOUT REMOVING LOCK FROM DOOR. LOCK AND LATCHES TO HAVE 2_3/4" BACKSET UNLESS OTHERWISE NOTED.

16. STRIKES SHALL BE EXTENDED UPS WHERE REQUIRED TO PROTECT TRIM FROM BEING MARRED BY LATCH BOLT. WROUGHT BOXES SHALL BE FURNISHED WITH STRIKES.

17. PADLOCKS: MANUFACTURED BY SCHLAGE

18. KEYS AND KEYING: MANUFACTURED BY SCHLAGE
19. CYLINDERS FOR THIS PROJECT SHALL BE SET TO NEW MASTER KEYS. CYLINDERS TO BE CONSTRUCTION MASTER KEYED. MASTER-KEY SETS AND INDIVIDUAL KEYING OF LOCKS SHALL BE DETERMINED BY OWNER.

20. FURNISH: COORDINATE KEY REQUIREMENTS WITH OWNER.

21. STOPS: MANUFACTURED BY IVES

22. STOPS (OTHER THAN OVERHEAD TYPE) SHALL BE WALL TYPE WHERE A WALL IS INDICATED WITHIN 12" AND PARALLEL TO THE DOOR LEAF IN THE OPEN POSITION AT 90°. DOME FLOOR STOPS SHALL BE PROVIDED FOR DOORS WITH NO OVERHEAD STOPS AND NO RESTRICTIONS WITHIN 180° OF SWING.

23. OVERHEAD STOP INSTALL ON EXTERIOR ALUMINUM ENTRANCE DOORS: MANUFACTURED BY GLYNN-JOHNSON.

24. THRESHOLDS: MANUFACTURED BY PEMCO. TYPE AS SPECIFIED IN HARDWARE GROUPS. SIZED TO FIT OPENINGS.

25. DOOR SWEEPS: MANUFACTURED BY PEMCO. PROVIDE DOOR SWEEPS ON EXTERIOR DOORS.

26. WEATHER-STRIPING: MANUFACTURED BY PEMCO. PROVIDE AT EXTERIOR DOORS AT HEAD AND JAMB STILES.

27. SILENCERS: MANUFACTURED BY IVES. METAL FRAMES TO HAVE: SINGLE DOORS - 3 EACH JAMB; DOUBLE DOORS - 2 EACH JAMB.

28. EXIT DEVICES & TRIM: MANUFACTURED BY VON DUPRIN, INC.

29. EXIT DEVICES SHALL BE PANIC HARDWARE DEVICES MOUNTED ON DOORS AS SCHEDULED.

30. DRIP CAP: MANUFACTURED BY PEMCO. PROVIDE DRIP CAP OVER EXTERIOR OUT-SWINGING HOLLOW METAL DOORS NOT PROTECTED BY A WEATHER-TIGHT CANOPY.

SECTION 08 91 00 / LOUVERS

1. SUBMIT SHOP DRAWINGS COMPLYING WITH SECTION 01 33 00 FOR WORK IN THIS SECTION.
2. PRODUCTS AS MANUFACTURED BY AIROLITE COMPANY.
3. STATIONARY EXTRUDED ALUMINUM LOUVERS: TYPE K638 / DEPTH WITH 50% F.A.
4. FRAMES AND BLADES SHALL BE ALLOY 6063-T5, 12-GAUGE EXTRUDED ALUMINUM. ASSEMBLE LOUVERS COMPLETELY BY WELDING. JOIN AT VERTICAL MULLIONS WITH 1" TYPE SLIP MULLION. HORIZONTAL MULLIONS SHALL BE CONSTRUCTED SO AS TO BE INVISIBLE AND APPEAR AS A SINGLE LOUVER HEIGHT FOLLOWING INSTALLATION.
5. STATIONARY EXTRUDED ALUMINUM SIGHT-PROOF LOUVERS: TYPE K605 - 5" DEPTH WITH 52% F.A.
6. BLADES AND FRAMES SHALL BE ALLOY 6063-T5, 12-GAUGE EXTRUDED ALUMINUM. LOUVERS SHALL BE COMPLETELY ASSEMBLED INTO SECTIONS BY FACTORY WELDING. FURNISH 2" FLAT FLANGE AROUND EXTERIOR FACE WITH HOLES FOR ATTACHMENT TO WALL BY EXPANSION BOLTS.
7. STATIONARY EXTRUDED ALUMINUM NARROW-PROFILE LOUVERS: TYPE T608 - 2" DEPTH WITH 33% F.A.
8. BLADES SHALL BE SET ON 45° SLOPE WITH A RETURN BEND ON THE INTERIOR FACE. BOTH BLADES AND FRAMES SHALL BE ALLOY 6063-T5, 12-GAUGE EXTRUDED ALUMINUM. ASSEMBLE COMPLETELY BY FACTORY WELDING.
9. EQUIP LOUVERS WITH ALUMINUM INSECT SCREEN MOUNTED IN STANDARD FOLDED U-TYPE FRAME ATTACHED TO INTERIOR FACE WITH SHEET METAL SCREWS.
10. FINISH, COLOR AND SIZE: COLOR AND SIZE SHALL BE AS INDICATED ON THE DRAWINGS. RYMAR 500 TWO-COAT SYSTEM SHALL BE MANUFACTURER'S FACTORY APPLIED, WITH AN INHIBITIVE PRIMER AND OVEN-CURED RESIN COATING. COATING SHALL MEET THE PERFORMANCE REQUIREMENTS OF AAMA 2605.

11. CLEAR ANODIZED SHALL BE OF 0.4 MILL MINIMUM THICKNESS MEETING AA-M1C22A231, OR COLOR ANODIZED DYED FINISH OF 0.8 MILL MINIMUM THICKNESS MEETING AA-M1C22A24244. ANODIZED COATINGS SHALL MEET OR EXCEED THE REQUIREMENTS OF AAMA 611-98.
12. INSTALL LOUVERS AT LOCATIONS INDICATED, STRAIGHT AND PLUMB, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

SECTION 09 20 00 / LIGHT-GAUGE FRAMING

QUALITY ASSURANCE

1. ASTM C-754 AND C-645 IS HEREBY MADE A PART OF THIS SPECIFICATION. WORK SHALL CONFORM TO THE METAL STUD MANUFACTURER'S ASSOCIATION STANDARDS.

MATERIALS

2. NON-LOAD BEARING INTERIOR WALLS: METAL STUDS SHALL BE ROLL FORMED CHANNEL TYPE STUDS, 25-GAUGE ELECTRO-GALVANIZED STEEL, SIZES INDICATED. USE 20-GAUGE STUDS FOR WALLS TO RECEIVE CERAMIC TILE AND FOR WALLS OVER 14' HIGH, AND AT JAMBS OF DOOR OPENINGS 36" OR WIDER.
3. PROVIDE METAL FLOOR AND CEILING RUNNERS DESIGNED TO ACCOMMODATE THE SPECIFIED STUDS. METAL FURRING CHANNELS FOR WALLS SHALL BE 25-GAUGE ELECTRO-GALVANIZED STEEL.
4. LOAD-BEARING AND EXTERIOR WALLS: METAL STUDS FOR INTERIOR LOAD-BEARING AND EXTERIOR WALLS SHALL BE ROLL FORMED CHANNEL TYPE STUDS, 16-GAUGE ELECTRO-GALVANIZED STEEL, 4" OR 6" SIZES AS INDICATED ON THE DRAWINGS.
5. METAL FURRING: SHALL BE ROLL FORMED FURRING CHANNEL TYPE, 25-GAUGE ELECTRO-GALVANIZED STEEL, SIZES AS INDICATED. USE 20-GAUGE FOR WALLS TO RECEIVE CERAMIC TILE AND AT JAMBS OF DOOR OPENINGS 36" OR WIDER. USE WHERE INDICATED FOR FURRING OF WALLS, AND CEILINGS.
6. PROVIDE METAL FLOOR AND CEILING RUNNERS DESIGNED TO ACCOMMODATE THE SPECIFIED STUDS.

INSTALLATION

7. ATTACH STEEL RUNNERS AT FLOOR AND CEILING TO STRUCTURAL ELEMENTS WITH FASTENERS LOCATED 27" FROM EACH END AND SPACED 24" OC, OR TO SUSPENDED CEILINGS WITH TOGGLE OR MOLLY BOLTS SPACED 16" OC.
8. POSITION STUDS VERTICALLY, ENGAGING FLOOR AND CEILING RUNNERS AND SPACING STUDS AT 16" CENTERS. NEITHER MAIN RUNNERS NOR CROSS FURRING SHALL BE LET INTO NOR COME IN CONTACT WITH ABUTTING MASONRY WALLS OR PARTITIONS. LOCATE A MAIN RUNNER WITHIN 6" OF THE WALL TO SUPPORT THE ENDS OF THE FURRING CHANNELS, AND LOCATE HANGERS TO SUPPORT THE ENDS OF THE MAIN RUNNERS.
9. WHERE MAIN RUNNERS OR FURRING CHANNELS ARE SPLICED, OVERLAP THE ENDS NOT LESS THAN 8" AND TIE NEAR EACH END OF THE SPLICE WITH 2 LOOPS OF 16-GAUGE GALVANIZED WIRE.
10. SUSPEND MAIN RUNNERS FROM STRUCTURE ABOVE WITH ONE NO. 9 HANGER WIRE FOR EACH 12 SF OF CEILING AREA. WIRE HANGERS SHALL BE OF SUCH LENGTH SO THAT THE LOWER ENDS WILL BE SADDLE-TIED OR WRAPPED AROUND THE MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISTING OF THE RUNNERS.
11. AT CONCRETE TIE UNITS, HANGER WIRES MAY BE ATTACHED BY RAM SET METHOD ONLY ON THE SIDES OF THE TIE STEMS, AT LEAST 6" ABOVE THE BOTTOM OF THE STEM. ATTACHMENT AT OTHER AREAS OF TIE UNITS SHALL BE DRILLED STUD, TYPE FASTENERS, WHERE TEES RECEIVE CONVENTIONAL CONCRETE TOPPING, HANGER WIRES MAY BE PLACED BETWEEN JOINTS OF UNITS PROVIDED DOUBLE LOOPED HANGERS ARE USED.
12. AT HOLLOW CORE SLAB MEMBERS, HANGERS SHALL BE GROUDED INTO CELL OF UNIT OR MECHANICAL FASTENERS MUST BE USED TO ATTACH HANGERS.
13. AT STEEL BEAMS, JOISTS OR OTHER STEEL CONSTRUCTION WRAP HANGERS AROUND, INSERT THROUGH, OR CLIP OR BOLT TO THE SUPPORTS, TO DEVELOP THE FULL STRENGTH OF THE HANGERS.
14. FOR WOOD CONSTRUCTION INSERT WIRE HANGERS IN HOLES DRILLED A MINIMUM OF 3" ABOVE BOTTOM OF JOISTS AND WITH THE UPPER END OF THE HANGER IN EACH CASE TWISTED 3 TIMES AROUND ITSELF, OR ATTACH WIRE HANGERS TO 3_1/2" NAILS, DRIVEN ON A DOWNWARD SLANT INTO SIDES OF JOISTS ALLOWING MINIMUM 1_1/4" PENETRATION INTO THE WOOD. DRIVING NAILS AT LEAST 6" FROM BOTTOM EDGES AND NOT OVER 36" ON CENTER WITH THE UPPER END OF THE HANGER TO EACH CASE TWISTED 3 TIMES AROUND ITSELF, OR USE 4 1_1/2" 6-GAUGE WIRE STAPLES TO SECURE HANGERS TO THE SIDES OF THE JOISTS, DRIVING STAPLES HORIZONTALLY OR ON A DOWNWARD SLANT, 3 NEAR THE UPPER END OF THE LOOP AND THE FOURTH TO FASTEN THE LOOSE END.
15. AT PARTITION CORNERS, INSTALL A STUD SO THAT IT FORMS THE OUTSIDE CORNER. FOLLOWING APPLICATION OF A SINGLE LAYER OF WALLBOARD TO THIS STUD, INSTALL A SECOND STUD IN THE ABUTTING RUNNER AND SCREW ATTACH THE WEB THROUGH THE WALLBOARD INTO THE FLANGE OF THE FIRST STUD. A 3-STD CONVENTIONAL CORNER IS AN ACCEPTABLE ALTERNATIVE.
16. BRIDGE STUD-PARTITIONS AT MID-HEIGHT WITH 1_1/2" CHANNELS THROUGH VERTICAL STUDS AND SECURE IN PLACE. LAP CHANNELS BY NESTING ONE INSIDE THE OTHER TO A DEPTH OF AT LEAST 8" AND WIRE THEM TOGETHER.
17. PROVIDE BRACED FRAMINGS OF STEEL STUD FRAMING AS DETAILED. USE ONLY MECHANICAL ATTACHMENTS.

WALL FURRING INSTALLATION

18. ATTACH METAL FURRING CHANNELS VERTICALLY SPACED 16" OC TO MASONRY OR CONCRETE SURFACES WITH HAMMER SET OR POWER DRIVEN FASTENERS OR CONCRETE STUD NAILS STAGGERED 24" OC ON OPPOSITE FLANGES. NEST CHANNELS 1/8" AT SPLICES AND ANCHOR WITH TWO FASTENERS IN EACH WING. WHERE FURRING CHANNEL IS INSTALLED DIRECTLY TO EXTERIOR WALL AND A POSSIBILITY OF WATER PENETRATION THROUGH WALL EXISTS, INSTALL ASPHALT FELT PROTECTION STRIP BETWEEN FURRING CHANNEL AND WALL.
19. POSITION A CUT-TO-LENGTH STUD, EXTENDING TO CEILING RUNNER, AT VERTICAL PANEL JOINTS OVER DOOR-FRAME HEADER. AT DOOR OPENINGS OVER 36" IN WIDTH, INSTALL DOUBLE STUDS AT BOTH JAMBS. INSTALL ADDITIONAL STUD TO BACK OF STUD AT DOORJAMBS. ANCHOR BY WELDING STUDS TO EACH OTHER.
20. AT PARTITION CORNERS, INSTALL A STUD SO THAT IT FORMS THE OUTSIDE CORNER. FOLLOWING APPLICATION OF A SINGLE LAYER OF WALLBOARD TO THIS STUD, INSTALL A SECOND STUD IN THE ABUTTING RUNNER AND SCREW ATTACH THE WEB THROUGH THE WALLBOARD INTO THE FLANGE OF THE FIRST STUD. A 3-STD CONVENTIONAL CORNER IS AN ACCEPTABLE ALTERNATIVE.
21. BRIDGE STUD-PARTITIONS AT MID-HEIGHT WITH 1_1/2" CHANNELS THROUGH VERTICAL STUDS AND SECURE IN PLACE. LAP CHANNELS BY NESTING ONE INSIDE THE OTHER TO A DEPTH OF AT LEAST 8" AND WIRE THEM TOGETHER.
22. SECURELY CLIP METAL FURRING CHANNELS TO MAIN RUNNERS USING FURRING CHANNEL CLIPS OR SADDLE-TIE WITH 2 STRANDS OF 16-GAUGE TIE WIRE. INSTALL FURRING CHANNEL CLIPS ON ALTERNATE SIDES OF THE MAIN RUNNER CHANNEL.
23. AT LIGHTS OR OTHER OPENINGS THAT INTERRUPT THE MAIN RUNNER OR FURRING CHANNELS, REMOVE CHANNELS AT RIGHT ANGLES TO CHANNELS. WIRE TIE AD TOP AND PARALLEL TO THE MAIN RUNNER CHANNELS.
24. APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO THE FURRING CHANNELS, WITH ABUTTING ENDS AND EDGES OCCURRING OVER THE WEB SURFACE OF THE FURRING CHANNEL. USE WALLBOARD OF MAXIMUM POSSIBLE LENGTH TO MINIMIZE JOINTS. NEATLY FIT AND STAGGER END JOINTS. INSTALL WALLBOARD WITH 1" SCREWS SPACED 8" OC IN THE FIELD OF THE BOARD, AT BEARINGS, AND ALONG ABUTTING EDGES.

25. WHERE INDICATED FOR WALLBOARD APPLIED DIRECT TO BOTTOM CHORD OF STEEL JOIST, INSTALL RIGID FURRING CHANNELS AT RIGHT ANGLES TO JOISTS, LOCATED ON 16" CENTERS. ATTACH USING CLIPS OR WITH 2 STRANDS OF 16-GAUGE TIE WIRE.
26. WHEREVER WALLBOARD TERMINATES AGAINST DISSIMILAR MATERIALS OR WHERE EDGES OF WALLBOARD ARE EXPOSED, INSTALL METAL EDGE REINFORCEMENT AS SPECIFIED. AT OUTSIDE CORNERS INSTALL METAL CORNER BEAD REINFORCEMENT AS SPECIFIED.
27. AT LOCATIONS INDICATED INSTALL CONTROL JOINT OVER FACE OF WALLBOARD PANELS. CUT END JOINTS SQUARE, BUTT TOGETHER AND ALIGN TO PROVIDE NEAT FIT. ATTACH CONTROL JOINT TO WALLBOARD WITH BOSSITICH 1/2" TYPE G STAPLES SPACED NOT OVER 6" ON CENTER IN EACH FLANGE.
28. AT METAL STUDS APPLY WALLBOARD USING SCREWS SPACED A MAXIMUM OF 12" OC IN THE FIELD OF THE BOARD AND 12" OC ALONG THE ABUTTING END JOINTS; 8" OC AT RATED WALLS.
29. AT WOOD FRAMING APPLY WALLBOARD WITH DOUBLE NAILING METHOD. APPLY FIRST NAILS SPACED 12" OC WITH THE SECOND NAIL IN CLOSE PROXIMITY. INSTALLED AFTER FIRST NAILS ARE IN PLACE. NAILS SHALL NOT BE STAGGERED ON ADJOINING EDGES OR ENDS. NAILS SHALL BE DRIVEN WITH THE HEADS SLIGHTLY BELOW THE SURFACE OF THE WALLBOARD, IN A DIMPLE FORMED BY THE DRIVING TOOL. A NAIL SET SHALL NOT BE USED AND CARE SHALL BE TAKEN TO AVOID BREAKING THE PAPER FACE.
30. WHERE WR OR WX WALLBOARD IS USED, COAT CUT EDGES AND FASTENER HEADS WITH USG SHEETROCK WR SEALANT. TREAT CUT EDGES, UTILITY HOLES, AND JOINTS INCLUDING THOSE AT ANGLE INTERSECTIONS PRIOR TO INSTALLATION. TREAT FASTENER HEADS AFTER INSTALLATION.
31. AT SOUND CONTROL PARTITIONS INSTALL WALLBOARD OVER SOUND DEADENING BOARD. INSTALL HORIZONTALLY STAGGERING JOINTS BETWEEN LAYERS AND ON OPPOSITE SIDES AS FAR AS IS PRACTICAL. PROVIDE FULL RUNNING BEADS OF ACOUSTICAL SEALANT AT PERIMETER OF SUCH WALLS, BOTH SIDES. ALSO, PROVIDE AT SOUND CONTROL WALLS CONTINUOUS CALKING BEAD WHERE WALLBOARD FORMS A JUNCTURE WITH OTHER WALLS OR SURFACES.
32. AT DOUBLE LAYER WALLS INSTALL BASE LAYER AS SPECIFIED ABOVE EXCEPT INSTALL VERTICALLY OVER FRAMING MEMBERS. INSTALL FACE LAYER WITH

33. WALLBOARD ACCESSORIES: CORNER BEAD REINFORCEMENT: KAL-KORNER BEAD
34. METAL EDGE REINFORCEMENT: J-TRIM CASING BEAD
35. CONTROL JOINTS: E-Z STRIP OR .093 ZINC CONTROL JOINT
36. NAILS: PROVIDE ANNULAR RING SHANK NAIL, GWB, 5/4, ASTM C 514, 1_1/4" FOR 1/2" WALLBOARD, 1_3/8" FOR 5/8" WALLBOARD, OR SMOOTH SHANK NAIL, 1_3/8" FOR 1/2" WALLBOARD, 1_1/2" FOR 5/8" WALLBOARD.
37. SCREWS: PROVIDE SELF-DRILLING, SELF-TAPPING, BUGLE HEAD, FOR USE WITH POWER DRIVEN TOOL. TYPE S FOR APPLICATION TO LIGHT-GAUGE METAL FRAMING, MINIMUM 1_1/2", TYPE S, 12 FOR APPLICATION TO HEAVY-GAUGE METAL FRAMING (ASTM C 540), TYPE W FOR APPLICATION TO WOOD FRAMING, MINIMUM 1_1/2" (SINGLE LAYER), 1_5/8" (DOUBLE LAYER) (ASTM C 894), TYPE G FOR WALLBOARD TO WALLBOARD APPLICATION, MINIMUM 1_1/2", (ASTM C 893).
38. LAMINATING ADHESIVES: WALLBOARD TO WOOD OR METAL FRAMING: US GYPSUM DURABOND 200 OR 300, OR CONFORMING TO ASTM C 557 FOR WOOD FRAMING.
39. WALLBOARD TO WALLBOARD: US GYPSUM DURABOND 600.
40. WALLBOARD TO CORE BOARD OR SOUND DEADENING BOARD: US GYPSUM DURABOND 500.
41. WALLBOARD TO CONCRETE OR MASONRY: US GYPSUM DURABOND 500.
42. SUSPENDED CEILING COMPONENTS: FURRING CHANNELS: TYPE DVC AS MANUFACTURED BY US GYPSUM, OR RIGID FURRING CHANNELS CONFORMING TO ASTM C 845.
43. MAIN RUNNERS CHANNELS: COLD ROLLED SECTIONS, 1_1/2", FORMED OF NO.

44. 16-GAUGE STEEL, PAINTED WITH A RUST INHIBITING PAINT
45. HANGER WIRES: SIZES SPECIFIED, DOUBLE ANNEALED AND GALVANIZED, CONFORMING TO FS QQ_W_461, TYPE I.

46. FINISHING MATERIALS: JOINT TREATMENT SYSTEM SHALL BE PROFORM JOINT SYSTEM CONSISTING OF:
47. PROFORM PAPER JOINT REINFORCING TAPE CONFORMING TO ASTM C-415.
48. PROFORM PURPOSE JOINT COMPOUND FOR EMBEDDING, FILL AND FINISHING CONFORMING TO ASTM C-475.

49. TEXTURE FINISH:
50. WALL TEXTURE MATERIAL SHALL BE REGULAR WALL TEXTURE AS MANUFACTURED BY HAMILTON MATERIALS.
51. CEILING TEXTURE MATERIAL SHALL BE PAE, TEX PREMIUM CEILING TEXTURE, MANUFACTURED BY HAMILTON MATERIALS.
52. WALL TEXTURE MATERIAL SHALL BE V_1200 WALL TEXTURE AS MANUFACTURED BY LAHABRA PRODUCTS.

53. SEALANTS: ACOUSTICAL SEALANT FOR SOUND CONTROL WALLS SHALL BE PRESTITE NO 579.64 AS MANUFACTURED BY PRESTITE PRODUCTS, TREMCO ACOUSTICAL SEALANT BY TREMCO, OR USG ACOUSTICAL SEALANT.

INSTALLATION - SUSPENDED CEILINGS

54. EXCEPT WHERE OTHERWISE INDICATED, PROVIDE 1_1/2" MAIN RUNNER CHANNELS SPACED ON 16" CENTERS AND METAL FURRING CHANNELS SPACED ON NOT OVER 16" CENTERS. NEITHER MAIN RUNNERS NOR CROSS FURRING SHALL BE LET INTO NOR COME IN CONTACT WITH ABUTTING MASONRY WALLS OR PARTITIONS. LOCATE A MAIN RUNNER WITHIN 6" OF THE WALL TO SUPPORT THE ENDS OF THE FURRING CHANNELS, AND LOCATE HANGERS TO SUPPORT THE ENDS OF THE MAIN RUNNERS.
55. WHERE MAIN RUNNERS OR FURRING CHANNELS ARE SPLICED, OVERLAP THE ENDS NOT LESS THAN 8" AND TIE NEAR EACH END OF THE SPLICE WITH 2 LOOPS OF 16-GAUGE GALVANIZED WIRE.
56. SUSPEND MAIN RUNNERS FROM STRUCTURE ABOVE WITH ONE NO. 9 HANGER WIRE FOR EACH 12 SF OF CEILING AREA. WIRE HANGERS SHALL BE OF SUCH LENGTH SO THAT THE LOWER ENDS WILL BE SADDLE-TIED OR WRAPPED AROUND THE MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISTING OF THE RUNNERS.
57. AT CONCRETE TIE UNITS, HANGER WIRES MAY BE ATTACHED BY RAM SET METHOD ONLY ON THE SIDES OF THE TIE STEMS, AT LEAST 6" ABOVE THE BOTTOM OF THE STEM. ATTACHMENT AT OTHER AREAS OF TIE UNITS SHALL BE DRILLED STUD, TYPE FASTENERS, WHERE TEES RECEIVE CONVENTIONAL CONCRETE TOPPING, HANGER WIRES MAY BE PLACED BETWEEN JOINTS OF UNITS PROVIDED DOUBLE LOOPED HANGERS ARE USED.
58. AT HOLLOW CORE SLAB MEMBERS, HANGERS SHALL BE GROUDED INTO CELL OF UNIT OR MECHANICAL FASTENERS MUST BE USED TO ATTACH HANGERS.
59. AT STEEL BEAMS, JOISTS OR OTHER STEEL CONSTRUCTION WRAP HANGERS AROUND, INSERT THROUGH, OR CLIP OR BOLT TO THE SUPPORTS, TO DEVELOP THE FULL STRENGTH OF THE HANGERS.
60. FOR WOOD CONSTRUCTION INSERT WIRE HANGERS IN HOLES DRILLED A MINIMUM OF 3" ABOVE BOTTOM OF JOISTS AND WITH THE UPPER END OF THE HANGER IN EACH CASE TWISTED 3 TIMES AROUND ITSELF, OR ATTACH WIRE HANGERS TO 3_1/2" NAILS, DRIVEN ON A DOWNWARD SLANT INTO SIDES OF JOISTS ALLOWING MINIMUM 1_1/4" PENETRATION INTO THE WOOD. DRIVING NAILS AT LEAST 6" FROM BOTTOM EDGES AND NOT OVER 36" ON CENTER WITH THE UPPER END OF THE HANGER TO EACH CASE TWISTED 3 TIMES AROUND ITSELF, OR USE 4 1_1/2" 6-GAUGE WIRE STAPLES TO SECURE HANGERS TO THE SIDES OF THE JOISTS, DRIVING STAPLES HORIZONTALLY OR ON A DOWNWARD SLANT, 3 NEAR THE UPPER END OF THE LOOP AND THE FOURTH TO FASTEN THE LOOSE END.
61. AT PARTITION CORNERS, INSTALL A STUD SO THAT IT FORMS THE OUTSIDE CORNER. FOLLOWING APPLICATION OF A SINGLE LAYER OF WALLBOARD TO THIS STUD, INSTALL A SECOND STUD IN THE ABUTTING RUNNER AND SCREW ATTACH THE WEB THROUGH THE WALLBOARD INTO THE FLANGE OF THE FIRST STUD. A 3-STD CONVENTIONAL CORNER IS AN ACCEPTABLE ALTERNATIVE.
62. BRIDGE STUD-PARTITIONS AT MID-HEIGHT WITH 1_1/2" CHANNELS THROUGH VERTICAL STUDS AND SECURE IN PLACE. LAP CHANNELS BY NESTING ONE INSIDE THE OTHER TO A DEPTH OF AT LEAST 8" AND WIRE THEM TOGETHER.
63. SECURELY CLIP METAL FURRING CHANNELS TO MAIN RUNNERS USING FURRING CHANNEL CLIPS OR SADDLE-TIE WITH 2 STRANDS OF 16-GAUGE TIE WIRE. INSTALL FURRING CHANNEL CLIPS ON ALTERNATE SIDES OF THE MAIN RUNNER CHANNEL.
64. AT LIGHTS OR OTHER OPENINGS THAT INTERRUPT THE MAIN RUNNER OR FURRING CHANNELS, REMOVE CHANNELS AT RIGHT ANGLES TO CHANNELS. WIRE TIE AD TOP AND PARALLEL TO THE MAIN RUNNER CHANNELS.
65. APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO THE FURRING CHANNELS, WITH ABUTTING ENDS AND EDGES OCCURRING OVER THE WEB SURFACE OF THE FURRING CHANNEL. USE WALLBOARD OF MAXIMUM POSSIBLE LENGTH TO MINIMIZE JOINTS. NEATLY FIT AND STAGGER END JOINTS. INSTALL WALLBOARD WITH 1" SCREWS SPACED 8" OC IN THE FIELD OF THE BOARD, AT BEARINGS, AND ALONG ABUTTING EDGES.

66. WHERE INDICATED FOR WALLBOARD APPLIED DIRECT TO BOTTOM CHORD OF STEEL JOIST, INSTALL RIGID FURRING CHANNELS AT RIGHT ANGLES TO JOISTS, LOCATED ON 16" CENTERS. ATTACH USING CLIPS OR WITH 2 STRANDS OF 16-GAUGE TIE WIRE.
67. WHEREVER WALLBOARD TERMINATES AGAINST DISSIMILAR MATERIALS OR WHERE EDGES OF WALLBOARD ARE EXPOSED, INSTALL METAL EDGE REINFORCEMENT AS SPECIFIED. AT OUTSIDE CORNERS INSTALL METAL CORNER BEAD REINFORCEMENT AS SPECIFIED.
68. AT LOCATIONS INDICATED INSTALL CONTROL JOINT OVER FACE OF WALLBOARD PANELS. CUT END JOINTS SQUARE, BUTT TOGETHER AND ALIGN TO PROVIDE NEAT FIT. ATTACH CONTROL JOINT TO WALLBOARD WITH BOSSITICH 1/2" TYPE G STAPLES SPACED NOT OVER 6" ON CENTER IN EACH FLANGE.
69. AT METAL STUDS APPLY WALLBOARD USING SCREWS SPACED A MAXIMUM OF 12" OC IN THE FIELD OF THE BOARD AND 12" OC ALONG THE ABUTTING END JOINTS; 8" OC AT RATED WALLS.
70. AT WOOD FRAMING APPLY WALLBOARD WITH DOUBLE NAILING METHOD. APPLY FIRST NAILS SPACED 12" OC WITH THE SECOND NAIL IN CLOSE PROXIMITY. INSTALLED AFTER FIRST NAILS ARE IN PLACE. NAILS SHALL NOT BE STAGGERED ON ADJOINING EDGES OR ENDS. NAILS SHALL BE DRIVEN WITH THE HEADS SLIGHTLY BELOW THE SURFACE OF THE WALLBOARD, IN A DIMPLE FORMED BY THE DRIVING TOOL. A NAIL SET SHALL NOT BE USED AND CARE SHALL BE TAKEN TO AVOID BREAKING THE PAPER FACE.
71. WHERE WR OR WX WALLBOARD IS USED, COAT CUT EDGES AND FASTENER HEADS WITH USG SHEETROCK WR SEALANT. TREAT CUT EDGES, UTILITY HOLES, AND JOINTS INCLUDING THOSE AT ANGLE INTERSECTIONS PRIOR TO INSTALLATION. TREAT FASTENER HEADS AFTER INSTALLATION.
72. AT SOUND CONTROL PARTITIONS INSTALL WALLBOARD OVER SOUND DEADENING BOARD. INSTALL HORIZONTALLY STAGGERING JOINTS BETWEEN LAYERS AND ON OPPOSITE SIDES AS FAR AS IS PRACTICAL. PROVIDE FULL RUNNING BEADS OF ACOUSTICAL SEALANT AT PERIMETER OF SUCH WALLS, BOTH SIDES. ALSO, PROVIDE AT SOUND CONTROL WALLS CONTINUOUS CALKING BEAD WHERE WALLBOARD FORMS A JUNCTURE WITH OTHER WALLS OR SURFACES.
73. AT DOUBLE LAYER WALLS INSTALL BASE LAYER AS SPECIFIED ABOVE EXCEPT INSTALL VERTICALLY OVER FRAMING MEMBERS. INSTALL FACE LAYER WITH

74. WALLBOARD ACCESSORIES: CORNER BEAD REINFORCEMENT: KAL-KORNER BEAD
75. METAL EDGE REINFORCEMENT: J-TRIM CASING BEAD
76. CONTROL JOINTS: E-Z STRIP OR .093 ZINC CONTROL JOINT
77. NAILS: PROVIDE ANNULAR RING SHANK NAIL, GWB, 5/4, ASTM C 514, 1_1/4" FOR 1/2" WALLBOARD, 1_3/8" FOR 5/8" WALLBOARD, OR SMOOTH SHANK NAIL, 1_3/8" FOR 1/2" WALLBOARD, 1_1/2" FOR 5/8" WALLBOARD.
78. SCREWS: PROVIDE SELF-DRILLING, SELF-TAPPING, BUGLE HEAD, FOR USE WITH POWER DRIVEN TOOL. TYPE S FOR APPLICATION TO LIGHT-GAUGE METAL FRAMING, MINIMUM 1_1/2", TYPE S, 12 FOR APPLICATION TO HEAVY-GAUGE METAL FRAMING (ASTM C 540), TYPE W FOR APPLICATION TO WOOD FRAMING, MINIMUM 1_1/2" (SINGLE LAYER), 1_5/8" (DOUBLE LAYER) (ASTM C 894), TYPE G FOR WALLBOARD TO WALLBOARD APPLICATION, MINIMUM 1_1/2", (ASTM C 893).
79. LAMINATING ADHESIVES: WALLBOARD TO WOOD OR METAL FRAMING: US GYPSUM DURABOND 200 OR 300, OR CONFORMING TO ASTM C 557 FOR WOOD FRAMING.
80. WALLBOARD TO WALLBOARD: US GYPSUM DURABOND 600.
81. WALLBOARD TO CORE BOARD OR SOUND DEADENING BOARD: US GYPSUM DURABOND 500.
82. WALLBOARD TO CONCRETE OR MASONRY: US GYPSUM DURABOND 500.
83. SUSPENDED CEILING COMPONENTS: FURRING CHANNELS: TYPE DVC AS MANUFACTURED BY US GYPSUM, OR RIGID FURRING CHANNELS CONFORMING TO ASTM C 845.
84. MAIN RUNNERS CHANNELS: COLD ROLLED SECTIONS, 1_1/2", FORMED OF NO.

85. 16-GAUGE STEEL, PAINTED WITH A RUST INHIBITING PAINT
86. HANGER WIRES: SIZES SPECIFIED, DOUBLE ANNEALED AND GALVANIZED, CONFORMING TO FS QQ_W_461, TYPE I.

87. FINISHING MATERIALS: JOINT TREATMENT SYSTEM SHALL BE PROFORM JOINT SYSTEM CONSISTING OF:
88. PROFORM PAPER JOINT REINFORCING TAPE CONFORMING TO ASTM C-415.
89. PROFORM PURPOSE JOINT COMPOUND FOR EMBEDDING, FILL AND FINISHING CONFORMING TO ASTM C-475.

90. TEXTURE FINISH:
91. WALL TEXTURE MATERIAL SHALL BE REGULAR WALL TEXTURE AS MANUFACTURED BY HAMILTON MATERIALS.
92. CEILING TEXTURE MATERIAL SHALL BE PAE, TEX PREMIUM CEILING TEXTURE, MANUFACTURED BY HAMILTON MATERIALS.
93. WALL TEXTURE MATERIAL SHALL BE V_1200 WALL TEXTURE AS MANUFACTURED BY LAHABRA PRODUCTS.

94. SEALANTS: ACOUSTICAL SEALANT FOR SOUND CONTROL WALLS SHALL BE PRESTITE NO 579.64 AS MANUFACTURED BY PRESTITE PRODUCTS, TREMCO ACOUSTICAL SEALANT BY TREMCO, OR USG ACOUSTICAL SEALANT.

95. WHERE INDICATED FOR WALLBOARD APPLIED DIRECT TO BOTTOM CHORD OF STEEL JOIST, INSTALL RIGID FURRING CHANNELS AT RIGHT ANGLES TO JOISTS, LOCATED ON 16" CENTERS. ATTACH USING CLIPS OR WITH 2 STRANDS OF 16-GAUGE TIE WIRE.
96. WHEREVER WALLBOARD TERMINATES AGAINST DISSIMILAR MATERIALS OR WHERE EDGES OF WALLBOARD ARE EXPOSED, INSTALL METAL EDGE REINFORCEMENT AS SPECIFIED. AT OUTSIDE CORNERS INSTALL METAL CORNER BEAD REINFORCEMENT AS SPECIFIED.
97. AT LOCATIONS INDICATED INSTALL CONTROL JOINT OVER FACE OF WALLBOARD PANELS. CUT END JOINTS SQUARE, BUTT TOGETHER AND ALIGN TO PROVIDE NEAT FIT. ATTACH CONTROL JOINT TO WALLBOARD WITH BOSSITICH 1/2" TYPE G STAPLES SPACED NOT OVER 6" ON CENTER IN EACH FLANGE.
98. AT METAL STUDS APPLY WALLBOARD USING SCREWS SPACED A MAXIMUM OF 12" OC IN THE FIELD OF THE BOARD AND 12" OC ALONG THE ABUTTING END JOINTS; 8" OC AT RATED WALLS.
99. AT WOOD FRAMING APPLY WALLBOARD WITH DOUBLE NAILING METHOD. APPLY FIRST NAILS SPACED 12" OC WITH THE SECOND NAIL IN CLOSE PROXIMITY. INSTALLED AFTER FIRST NAILS ARE IN PLACE. NAILS SHALL NOT BE STAGGERED ON ADJOINING EDGES OR ENDS. NAILS SHALL BE DRIVEN WITH THE HEADS SLIGHTLY BELOW THE SURFACE OF THE WALLBOARD, IN A DIMPLE FORMED BY THE DRIVING TOOL. A NAIL SET SHALL NOT BE USED AND CARE SHALL BE TAKEN TO AVOID BREAKING THE PAPER FACE.
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101. AT SOUND CONTROL PARTITIONS INSTALL WALLBOARD OVER SOUND DEADENING BOARD. INSTALL HORIZONTALLY STAGGERING JOINTS BETWEEN LAYERS AND ON OPPOSITE SIDES AS FAR AS IS PRACTICAL. PROVIDE FULL RUNNING BEADS OF ACOUSTICAL SEALANT AT PERIMETER OF SUCH WALLS, BOTH SIDES. ALSO, PROVIDE AT SOUND CONTROL WALLS CONTINUOUS CALKING BEAD WHERE WALLBOARD FORMS A JUNCTURE WITH OTHER WALLS OR SURFACES.
102. AT DOUBLE LAYER WALLS INSTALL BASE LAYER AS SPECIFIED ABOVE EXCEPT INSTALL VERTICALLY OVER FRAMING MEMBERS. INSTALL FACE LAYER WITH

103. WALLBOARD ACCESSORIES: CORNER BEAD REINFORCEMENT: KAL-KORNER BEAD
104. METAL EDGE REINFORCEMENT: J-TRIM CASING BEAD
105. CONTROL JOINTS: E-Z STRIP OR .093 ZINC CONTROL JOINT
106. NAILS: PROVIDE ANNULAR RING SHANK NAIL, GWB, 5/4, ASTM C 514, 1_1/4" FOR 1/2" WALLBOARD, 1_3/8" FOR 5/8" WALLBOARD, OR SMOOTH SHANK NAIL, 1_3/8" FOR 1/2" WALLBOARD, 1_1/2" FOR 5/8" WALLBOARD.
107. SCREWS: PROVIDE SELF-DRILLING, SELF-TAPPING, BUGLE HEAD, FOR USE WITH POWER DRIVEN TOOL. TYPE S FOR APPLICATION TO LIGHT-GAUGE METAL FRAMING, MINIMUM 1_1/2", TYPE S, 12 FOR APPLICATION TO HEAVY-GAUGE METAL FRAMING (ASTM C 540), TYPE W FOR APPLICATION TO WOOD FRAMING, MINIMUM 1_1/2" (SINGLE LAYER), 1_5/8" (DOUBLE LAYER) (ASTM C 894), TYPE G FOR WALLBOARD TO WALLBOARD APPLICATION, MINIMUM 1_1/2", (ASTM C 893).
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112. SUSPENDED CEILING COMPONENTS: FURRING CHANNELS: TYPE DVC AS MANUFACTURED BY US GYPSUM, OR RIGID FURRING CHANNELS CONFORMING TO ASTM C 845.
113. MAIN RUNNERS CHANNELS: COLD ROLLED SECTIONS, 1_1/2", FORMED OF NO.

114. 16-GAUGE STEEL, PAINTED WITH A RUST INHIBITING PAINT
115. HANGER WIRES: SIZES SPECIFIED, DOUBLE ANNEALED AND GALVANIZED, CONFORMING TO FS QQ_W_461, TYPE I.

116. FINISHING MATERIALS: JOINT TREATMENT SYSTEM SHALL BE PROFORM JOINT SYSTEM CONSISTING OF:
117. PROFORM PAPER JOINT REINFORCING TAPE CONFORMING TO ASTM C-415.
118. PROFORM PURPOSE JOINT COMPOUND FOR EMBEDDING, FILL AND FINISHING CONFORMING TO ASTM C-475.

119. TEXTURE FINISH:
120. WALL TEXTURE MATERIAL SHALL BE REGULAR WALL TEXTURE AS MANUFACTURED BY HAMILTON MATERIALS.
121. CEILING TEXTURE MATERIAL SHALL BE PAE, TEX PREMIUM CEILING TEXTURE, MANUFACTURED BY HAMILTON MATERIALS.
122. WALL TEXTURE MATERIAL SHALL BE V_1200 WALL TEXTURE AS MANUFACTURED BY LAHABRA PRODUCTS.

123. SEALANTS: ACOUSTICAL SEALANT FOR SOUND CONTROL WALLS SHALL BE PRESTITE NO 579.64 AS MANUFACTURED BY PRESTITE PRODUCTS, TREMCO ACOUSTICAL SEALANT BY TREMCO, OR USG ACOUSTICAL SEALANT.

124. WHERE INDICATED FOR WALLBOARD APPLIED DIRECT TO BOTTOM CHORD OF STEEL JOIST, INSTALL RIGID FURRING CHANNELS AT RIGHT ANGLES TO JOISTS, LOCATED ON 16" CENTERS. ATTACH USING CLIPS OR WITH 2 STRANDS OF 16-GAUGE TIE WIRE.
125. WHEREVER WALLBOARD TERMINATES AGAINST DISSIMILAR MATERIALS OR WHERE EDGES OF WALLBOARD ARE EXPOSED, INSTALL METAL EDGE REINFORCEMENT AS SPECIFIED. AT OUTSIDE CORNERS INSTALL METAL CORNER BEAD REINFORCEMENT AS SPECIFIED.
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