

- P. RECESSED WALL STUD INSTALLATION SEQUENCE
- 1. REMOVE RUBBER FILLER FROM STANDARD BEFORE RECESSED STUD IS PUT IN PLACE.
- 2. MASK TAPE STANDARD PORTION OF RECESSED STUD FOR ALL WALLS RECEIVING PAINT OR WALL COVERING.
- 3. SET RECESSED STUDS IN WALL.
- 4. USE LASER TO SET CONSISTENT HEIGHT OF STANDARD PORTION OF RECESSED STUDS - SCREEN CLIP IN TOPS AND BOTTOMS. (SET INSERT 7'-0" A.F.F.)
- 5. INSTALL DRYWALL ON RECESSED STUDS - AVOID DRYWALL FACTORY EDGE AGAINST STANDARD (REQUIRES EXCESSIVE MUD BUILD UP).
- 6. FLAT TAPE DRYWALL AGAINST STANDARD.
- 7. SAND MUD DOWN TO STANDARD TO AVOID EXCESS BUILD UP.
- 8. APPLY ALL FINISH MATERIALS TO WALL PRIOR TO CUTTING OUT STANDARD SLOTS.
- 9. USE RAZOR BLADES TO CUT OUT STANDARD SLOTS - TOPS AND BOTTOMS OF ALL SLOTS MUST ALIGN. CUTS TO BE MADE INSIDE OF STANDARD SLOTS.
- 10. WHEN COMPLETE - INSTALL BRACKETS ON EACH STANDARD AND INSTALL ROD TO VERIFY ALIGNMENT.

**SECTION 093000 - TILING**

- A. GENERAL: PROVIDE TILE SYSTEMS INCLUDING SETTING MATERIALS, GROUT AND ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
- B. STANDARDS: COMPLY WITH TILE COUNCIL OF AMERICA "HANDBOOK OF CERAMIC TILE INSTALLATION" INCLUDING REFERENCED ASTM AND ANSI STANDARDS.
- C. TILE MANUFACTURERS: AS INDICATED ON DRAWINGS.
- 1. FLOOR TILE: PROVIDE NON-SLIP UNITS WITH MINIMUM WET AND DRY VALUE OF 0.60 COEFFICIENT OF FRICTION WHEN TESTED IN ACCORDANCE WITH ASTM C1028.
- D. LATEX THIN SET: THINSET BOND COAT, LATEX-CEMENTITIOUS MORTAR CONFORMING TO ANSI A118.4.
- E. GROUT: ANSI A118.6 & LATEX CEMENTITIOUS TYPE BY LATIGRETE, BOSTIK OR CUSTOM BUILDING PRODUCTS. REFER TO DRAWINGS.
- F. INTEGRAL WATERPROOFING: LATICRETE, BOSTIK, OR NOBEL LIQUID RUBBER INTEGRAL TILE SETTING WATERPROOFING SYSTEM WITH NO BITUMINOUS EXTENDS, PROVIDE AT TILE APPLICATIONS ABOVE GRADE.
- G. CLEANING AND SEALING MATERIALS: AS RECOMMENDED BY TILE AND CERAMIC MANUFACTURERS, SUCH AS BOSTIK CONSTRUCTION PRODUCTS/HYDROMEM CREAM/SEAL.
- H. PREPARATION: DO NOT COMMENCE WORK UNTIL SURFACE CONDITIONS ARE WITHIN TOLERANCES REQUIRED FOR PROPER INSTALLATION. APPLY LATEX LEVING MATERIAL WHERE NECESSARY TO MEET REQUIRED TOLERANCES.
- I. INSTALLATION: COMPLY WITH TILE COUNCIL OF AMERICA (TCA) HANDBOOK FOR CERAMIC TILE INSTALLATION FOR LATEX BOND COAT THIN SET APPLICATION.

- 1. TILE: INSTALL TILE IN ACCORDANCE WITH REFERENCED ANSI STANDARDS AND TCA RECOMMENDATIONS FOR TYPE OF SUBSTRATE AND INDICATED SETTING METHOD; LATEX-CEMENT THIN SET AND BOND COATS REQUIRED.
- 2. PLACE TILE IN ACCORDANCE WITH PATTERNS INDICATED ON DRAWINGS OR AS DIRECTED BY OWNER'S CAREFUL LAYOUTS. ENSURE TILE LAYOUTS ARE UNINTERRUPTED FROM ONE SURFACE TO THE NEXT AND THROUGH DOORWAYS.
- 3. SEAL TILE AND GROUT SURFACES WHERE RECOMMENDED BY MANUFACTURER FOR MATERIALS AND APPLICATIONS INVOLVED; COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
- J. MOISTURE TESTING: PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING ACCORDING TO FLOORING MANUFACTURER'S WRITTEN RECOMMENDATIONS. PERFORM ONE OR BOTH TESTS, AS REQUIRED BY THE MANUFACTURER, IN ACCORDANCE WITH THE FOLLOWING:
  - 1. PERFORM ANHYDROUS CALCIUM CHLORIDE TEST ACCORDING TO ASTM F1869. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES HAVE MAXIMUM MOISTURE-VAPOUR-EMISSION RATE ACCEPTABLE TO THE FLOORING MANUFACTURER.
  - 2. PERFORM RELATIVE HUMIDITY TEST USING IN SITU PROBES ACCORDING TO ASTM F2170. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES HAVE A MAXIMUM RELATIVE HUMIDITY LEVEL ACCEPTABLE TO THE FLOORING MANUFACTURER.

**SECTION 095000 - ACOUSTICAL CEILING**

- A. GENERAL: PROVIDE ACOUSTICAL CEILING INCLUDING SUSPENSION SYSTEM, TRIM, AND ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
- B. STANDARDS: CONFORM TO ASTM C636 FOR METAL SUSPENSION SYSTEM AND ASTM C636 FOR INSTALLATION OF ACOUSTICAL CEILING.
- C. PERFORMANCE REQUIREMENTS: PROVIDE PRODUCTS LISTED BY UNDERWRITERS LABORATORIES (UL).
  - 1. FLAME SPREAD/SMOKE DENSITY: PROVIDE PRODUCTS MEETING CODE REQUIREMENTS FOR MAXIMUM 25 FLAME SPREAD AND MAXIMUM 25 SMOKE DENSITY.
- D. SEISMIC REQUIREMENTS: COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS FOR SEISMIC BRACING OF CEILING SUSPENSION SYSTEM, AND WITH ASTM E886.
- E. SUBMITTALS: SUBMIT PRODUCT DATA, SHOP DRAWINGS INDICATING LAYOUT, AND SAMPLES OF GRID, TRIM, AND CEILING UNITS.
- F. INSTALLER: FIRM WITH MINIMUM THREE YEAR'S SUCCESSFUL EXPERIENCE IN PROJECTS OF SIMILAR TYPE AND SCOPE; ACCEPTABLE TO MANUFACTURER OF ACOUSTICAL UNITS.
- G. PROJECT CONDITIONS: DO NOT INSTALL CEILING UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATING ACTIVITIES HAVE TERMINATED AND OVERHEAD MECHANICAL WORK IS COMPLETED, TESTED, AND APPROVED; ALLOW NET WORK TO DRY PRIOR TO INSTALLATION.
- H. ACOUSTICAL UNITS: TYPES AS INDICATED ON DRAWINGS.

- 1. MANUFACTURERS: ARMSTRONG SALES; REFER TO FINISH SCHEDULE FOR ARMSTRONG TYPE. BACK-OF-HOUSE AREAS: REFER TO FINISH SCHEDULE FOR ARMSTRONG TYPE.
- I. SUSPENSION SYSTEM
- MANUFACTURERS: ACOUSTICAL UNIT MANUFACTURER, OR CHICAGO METALLIC.
- 1. TYPICAL: SPECIAL 1/8" NARROW PROFILE WHITE BAKED ENAMEL FINISHED STEEL ALUMINUM TYPE EDGE TRIM WITH VERTICAL LEG CONCEALED.
- 2. BACK-OF-HOUSE AREAS: STANDARD I" PROFILE WHITE BAKED ENAMEL FINISHED STEEL OR ALUMINUM TYPE EDGE TRIM WITH VERTICAL LEG CONCEALED. PREPARATION: MEASURE CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL UNITS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH CEILING; USE LESS THAN HALF WIDTH UNITS AT BORDERS.
- J. COORDINATE WITH OTHER WORK SUPPORTED BY OR PENETRATING THROUGH CEILING, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT AND PARTITION SYSTEMS.
- K. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS AND ASTM C636, AND APPLICABLE REQUIREMENTS FOR FIRE RATINGS.
  - 1. FINISHED CEILING: TIE DOWN LINES AND LEVELS AND FREE FROM WARPED, SOILED OR DAMAGED GRID OR ACOUSTICAL UNITS.
  - 2. INSTALL CEILING SYSTEM: GRID IS CAPABLE OF SUPPORTING SUPERIMPOSED LOADS, WITH MAXIMUM DEFLECTION OF 1/8" PER INCH OF SPAN IN 10'-0".
  - 3. ENSURE SUSPENSION SYSTEM IS TESTED TO ACCOMMODATE FITTINGS AND UNITS OF EQUIPMENT HANGERS BEING PLACED. AFTER INSTALLATION OF CEILING GRID, WHERE UNITS OR OTHER EQUIPMENT REQUIRING REGULAR SPACING OF HANGERS, HANGERS MUST BE PLACED IN REGULAR SPACING OF HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED BY MANUFACTURER'S REQUIREMENTS.
  - 5. INSTALL EDGE CONDITIONS AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USE MAXIMUM BORDERS, STRAIGHT, TRUE TO LINE AND LEVEL; MITER CORNERS.
  - 6. FIT ACOUSTICAL UNITS IN PLACE, FREE FROM DAMAGED EDGES OR DEFECT DEFENSITIVE TO APPEARANCE AND FUNCTION. LAY DIRECTIONALLY PATTERNED UNITS ONE WAY WITH PATTERN AS DIRECTED. FIT BORDER UNITS NEATLY AGAINST CUTTING SURFACES.
  - 7. INSTALL UNITS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST, WARP AND DENTS.
  - 8. INSTALL HOLD-DOWN CLIPS WHERE REQUIRED BY APPLICABLE CODES AND WHERE CEILING IS WITHIN 20'-0" OF AN EXTERIOR DOOR.
- L. ADJUSTMENT: ADJUST SAGS OR TWISTS WHICH DEVELOP IN CEILING SYSTEM AND REPLACE

ANY PART WHICH IS DAMAGED OR FAULTY.

**SECTION 094200 - WOOD STRIP AND PLANK FLOORING**

- A. GENERAL: INSTALL SHOP FINISHED ACRYLIC IMPREGNATED WOOD STRIP FLOORING SYSTEM WITH ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
- B. PROJECT CONDITIONS: DO NOT INSTALL WOOD FLOORING SYSTEM UNTIL WET CONSTRUCTION WORK IS COMPLETED AND SURROUNDING AIR HAS MAXIMUM MOISTURE CONTENT OF 40 PERCENT. PROVIDE PERMANENT HEAT, LIGHT AND VENTILATION PRIOR TO INSTALLATION.
  - 1. MAINTAIN ROOM TEMPERATURE BETWEEN 60-90 DEGREES F, HUMIDITY 25-50 FOR PERIOD OF SEVEN DAYS PRIOR TO DELIVERY OF MATERIALS
- C. MANUFACTURER: PERI-MAGRAIN
- D. WOOD: AS INDICATED ON DRAWINGS, TONGUE AND GROOVED EDGES WITH SHOP APPLIED ACRYLIC IMPREGNATED FINISH INTENDED FOR DIRECT ADHESIVE APPLICATION TO CONCRETE.
- E. ADHESIVE: TYPE AS RECOMMENDED BY MANUFACTURER TO ENSURE MAXIMUM DURABILITY OVER TIME; NONTOXIC, WATERPROOF TYPE SUITABLE FOR FLOORING, SUBSTRATE, AND ACCEPTABLE TO APPLICABLE AUTHORITIES.
- F. SUBFLOOR FILLER: UTILIZE PORTLAND CEMENT BASED PRODUCTS FOR FLOOR PREP
- G. DIVIDER STRIPS: TYPE AS INDICATED IN DETAILS.
- H. PREPARATION: BROOM CLEAN SUBSTRATE SURFACE AND FREE OF ALL FOREIGN SUBSTANCE. USE LATEX FILLER TO PATCH CRACKS AND SMALL HOLES, AND FOR MINOR LEVELING.
  - 1. GRIND CONCRETE WHERE RIDGES AND IRREGULARITIES PROVIDE UNSATISFACTORY SUBSTRATE FOR WOOD STRIP FLOORING.
- I. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS AND INSTALLATION INSTRUCTION FOR DIRECT APPLICATION OF WOOD STRIP FLOORING OVER CONCRETE.
  - 1. ENSURE JOINTS OF WOOD FLOORING ARE IN LINE. ENSURE FULL ADHESIVE CONTACT FOR PERMANENT BOND TO SUBSTRATE.
  - 2. LAY FLOORING SYMMETRICAL ABOUT ROOM CENTER LINE, FIT NEATLY TO VERTICAL INTERRUPTIONS.
  - 3. PROVIDE DIVIDER STRIPS AT CENTERLINE OF DOOR OPENINGS AND WHERE FLOORING TERMINATES WITH TILE OR OTHER FLOOR FINISHES. (SEE FINISH PLAN LAYOUT)
  - 4. PROVIDE MAXIMUM 1/12 SLOPE WHERE FINISHED FLOOR SURFACE CHANGES LEVEL BETWEEN WOOD FLOORING AND ADJACENT FLOORING.
  - 5. PROVIDE MOISTURE BARRIER AS RECOMMENDED BY VENDOR.
- J. MOISTURE TESTING: FOR REQUIREMENTS, REFER TO SECTION 093000, ITEM J.

**SECTION 096100 - RESILIENT TILE FLOORING**

- A. GENERAL: PROVIDE RESILIENT TILE FLOORING SYSTEM AND RESILIENT BASE, WITH ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
- B. SUBMITTALS: FURNISH PRODUCT DATA AND SAMPLES OF EACH TYPE OF FLOORING AND BASE COLOR AND PATTERN SELECTED.
- C. PROJECT CONDITIONS: ENSURE FLOOR SURFACES ARE SMOOTH AND FLAT WITH MAXIMUM VARIATION OF 1/8" IN 10'-0"; ENSURE CONCRETE FLOORS ARE DRY AND EXHIBIT NEGATIVE ALKALINITY, CARBONIZING AND DUSTING.
- D. RESILIENT TILE: 12" X 12" BY 1/8" THICK VINYL COMPOSITION TILE CONFORMING TO ASTM F1064, COMPOSITION I; COLOR AND PATTERN AS INDICATED IN FINISH SCHEDULE.
  - 1. MANUFACTURERS: ARMSTRONG WORLD INDUSTRIES, INC.; AZROCK INDUSTRIES, INC.; TARKETT INC., OR APPROVED EQUAL.
  - FLAMMABILITY: PROVIDE MATERIALS TESTED UNDER ASTM E648, FLOORING RADIANT PANEL TEST, WITH RESULTS OF 0.45 MATTS/CM2 OR HIGHER.
  - 2. SLIP RESISTANCE: PROVIDE MATERIALS TESTED UNDER ASTM D2047, JAMES SLIP TEST WITH MINIMUM 0.6 RATING FOR FLOORS.
- E. RESILIENT BASE: FS 85-IN-40, 1/8" GAUGE COVED BASE AT HARD FLOOR SURFACES, STRAIGHT (TOP SET) BASE AT CARPET; PROVIDE PREMOLDED END STOPS AND EXTERNAL CORNERS.
  - 1. MANUFACTURERS: BURKE OR ROPPE, MOLDED RUBBER BASE. HEIGHT: 6" UNLESS OTHERWISE INDICATED.
  - 2. COLOR: AS INDICATED IN FINISH SCHEDULE.
- F. EDGE STRIPS AND ACCESSORIES: RUBBER OR VINYL EDGE STRIPS MATCHING RESILIENT FLOORING; LATEX-MODIFIED PORTLAND CEMENT BASED UNDERLAYMENT AND PATCHING COMPOUND; NONTOXIC WATER RESISTANT TYPE ADHESIVES.
- G. SUBFLOOR FILLER: WHITE PREMIXED LATEX-CEMENT PASTE DESIGNED FOR PROVIDING THIN SLIP SURFACE FOR LEVELING AND MINOR RAMPING OR SUBSURFACE TO ADJACENT FLOOR FINISHES; MATERIAL CAPABLE OF BEING APPLIED AND FEATHERED OUT TO ADJACENT FLOOR WITHOUT SPALLING.

- H. PRIMERS AND ADHESIVES: WATERPROOF NONTOXIC TYPES AS RECOMMENDED BY FLOORING MANUFACTURER FOR SPECIFIED MATERIAL AND APPLICATION.
- I. SEALER AND WAX: TYPE RECOMMENDED BY FLOORING MANUFACTURER FOR MATERIAL TYPE AND LOCATION.
- J. PREPARATION: CONFORM WITH MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION AND WITH ASTM F710. REMOVE SUBFLOOR RIDGES AND BUMPS, FILL LOW SPOTS, CRACKS, JOINTS, HOLES AND DEFECTS WITH SUBFLOOR FILLER.
- K. FLOORING INSTALLATION: CONFORM WITH MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS; SET FLOORING IN PLACE PRESS WITH HEAVY ROLLER. ENSURE FULL ADHESION; SCRIBE FLOORING TO WALLS, CURBS, LIPPS, AND OTHER APPURTENANCES, TO PRODUCE TIGHT JOINTS.
  - 1. INSTALL MINIMUM TWO TILE AT ROOM AND CORNER JOINTS; TERMINATE RESILIENT FLOORING AT CENTERLINE OF DOOR OPENINGS; FINISH FLOOR FINISH IS DISHBLIND; INSTALL EDGE STRIPS UNPROTECTED AT EXPOSED EDGES WHERE FLOORING TERMINATES.
  - 2. SEE FINISH PLAN FOR PATTERN SPECIFIED FOR EACH AREA.
- L. MOISTURE TESTING: FOR REQUIREMENTS, REFER TO SECTION 093000, ITEM J.
- M. INSTALLATION: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS; APPLY TO ALL WALLS, PILLASTERS, CASEWORK, AND OTHER PERMANENT FIXTURES IN ROOMS AND AREAS WHERE BASE IS REQUIRED.
  - 1. COVER INTERIOR CORNERS, USE PREMOLDED SECTIONS FOR EXTERNAL CORNERS AND EDGES EXPOSED TO WEAR AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
  - 2. STRIP EDGE MATERIALS WHERE FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
- N. EDGE STRIP: INSTALL WHERE EDGE OF TILE WOULD OTHERWISE BE EXPOSED, BUT TO FLOORING WITHOUT GAPS; SET IN ADHESIVE.
- O. CLEANING, CLEAN, SEAL AND WAX FLOOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**SECTION 098000 - CARPET (WALK-OFF MAT)**

- A. GENERAL: PROVIDE ENTRY CARPET TYPE FLOOR WALK OFF MATS WITH PVC GRID AND ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION. G.C. TO PROVIDE CARPET TRANSITION STRIPS FOR FLUSH MOUNTING OF MAT WITH ADJACENT FLOOR FINISH.
- B. CODES AND REGULATIONS: COMPLY WITH STATE AND FEDERAL REQUIREMENTS FOR ENSURING ACCESS FOR PERSONS WITH DISABILITIES.
- C. MANUFACTURER: THE MATWORKS COMPANY LLC, 1900 OLD BALTIMORE PIKE, BELTSVILLE, MD 20705, (301-837-1272).
  - 1. BSW ENTRY: REFER TO FINISH SCHEDULE.
- D. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS AND APPLICABLE CODES AND STANDARDS. G.C. TO PAINT SUBSTRATE ONCE DRY, CLEAN RECESSED WELL PRIOR TO INSTALLING GRID.

**SECTION 097200 - VINYL-COATED FABRIC WALL COVERINGS**

- A. GENERAL: PROVIDE PREFINISHED GLASS FIBER REINFORCED POLYESTER RESIN FABRICATED WALL PANELS, WITH TRIM PIECES AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
- B. SUBMITTALS: SEE SECTION 03300.
- C. MAINTENANCE INSTRUCTIONS: SEE SECTION 01700.
- D. MANUFACTURERS: AS INDICATED ON FINISH SCHEDULE.
- E. TYPES: AS INDICATED ON FINISH SCHEDULE.
- F. ADHESIVE: NONTOXIC TYPE RECOMMENDED BY WALL COVERING MANUFACTURER TO SUIT APPLICATION.
- G. PRIMER: PRIMER WHICH ALLOWS REMOVAL OF WALL COVERING FROM GYPSUM BOARD WITHOUT DAMAGING PAPER FACING OF BOARD, AND WITHOUT PREMATURE SEPARATION OF WALL COVERING FROM WALL. PRIMER TO BE NON-STAINING AND NON-TOXIC, AS RECOMMENDED BY WALL COVERING MANUFACTURER.
- H. EXAMINATION: ENSURE SURFACES TO RECEIVE WALL COVERING ARE CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT COMMENCE WORK UNTIL SURFACES ARE SATISFACTORY. ENSURE WALL SURFACE FLATNESS TOLERANCE DOES NOT VARY MORE THAN 1/8" IN 10'-0", NOR VARY AT A RATE GREATER THAN 1/16" PER RUNNING FOOT.
- I. PREPARATION: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS; FILL NICKS, GOUGES AND OTHER MINOR IMPERFECTIONS OF SUBSTRATES WITH LATEX FILLER. SAND SMOOTH, FLUSH WITH SURFACE. APPLY PRIMER COAT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- J. APPLICATION: HANDLE AND APPLY WALL COVERING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS; MIX AND APPLY ADHESIVE IN ACCORDANCE WITH ADHESIVE MANUFACTURER'S RECOMMENDATIONS.
  - 1. USE PANELS IN EXACT ORDER AS CUT FROM ROLLS, USE ROLLS IN CONSECUTIVE ORDER AS NUMBERED BY MANUFACTURER.
  - 2. HORIZONTAL SEAMS AND CUTTING AT CORNERS ARE NOT ACCEPTABLE. CUT NO CLOSER THAN 2" OF AN INSIDE CORNER, AND NOT CLOSER THAN 6" OF AN OUTSIDE CORNER.
  - 3. FILL SPACES ABOVE & BELOW WINDOWS, DOORS, AND SIM. AREAS IN SEQUENCE FROM ROLL.
- INSTALL IN PATTERN AS PROVIDED BY MANUFACTURER OR AS INDICATED IN DRAWINGS

**SECTION 097000 - RIGID-SHEET VINYL WALL COVERINGS (F.P. PANELS)**

- A. GENERAL: PROVIDE PREFINISHED GLASS FIBER REINFORCED POLYESTER RESIN FABRICATED WALL PANELS, WITH TRIM PIECES AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
- B. MANUFACTURERS: KEMLITE COMPANY/KEMLITE FIRE-X GLASSBOARD PLUS, SEQUENTIA, SET, INC./STRUCOTGLASS PYRO PANEL SYSTEM, OR NUDO PRODUCTS, INC./FIBER-LITE PANELS, CLASS
- C. PANELS: FIBERGLASS REINFORCED PLASTIC (FRP) PANEL SYSTEM; NOMINAL 0.090" THICKNESS; WHITE
  - 1. FIRE-RATING: CLASS 1 (UL CLASS A), MAXIMUM 25 FLAME SPREAD, 25 SMOKE GENERATION BASED ON ASTM E84 INSTALLATION.
- D. TRIM PIECES: MANUFACTURER'S STANDARD MATCHING MOLDINGS AND TRIM PIECES AS REQUIRED FOR COMPLETE, FINISHED INSTALLATION, AND AS REQUIRED FOR JOINTS, CORNERS AND PANEL EDGES.
- E. ADHESIVE: MANUFACTURER'S RECOMMENDED NONTOXIC, WATERPROOF ADHESIVE SUITABLE FOR SUBSTRATES INDICATED.
- F. PRIMER: PROVIDE NON-STAINING RELEASE COAT PRIMER AS RECOMMENDED BY WALL MANUFACTURER WHERE PANELS ARE APPLIED TO GYPSUM BOARD.
- G. MECHANICAL FASTENERS: CONCEALED TYPE ONLY, TYPES RECOMMENDED BY SYSTEM MANUFACTURER.
- H. INSTALLATION: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE REQUIREMENTS FOR FIRE RATINGS, COLORS AND PATTERN. USE TRIM PIECES IN MAXIMUM SIZE INCREMENTS AVAILABLE.
  - 1. INSTALL WALL PANELING BEFORE INSTALLATION OF DOORS, BASES, HARDWARE, AND SIMILAR FIXTURES.
  - 2. SECURE TO ADHERE TO WALL SURFACES; USE BLIND NAILING METHODS AND PROVIDE TO SUPPORT PANELS UNTIL ADHESIVE DRIES; EXPOSED MECHANICAL FASTENERS SHALL NOT BE VISIBLE. REMOVE EXCESS ADHESIVE FROM EDGES; WIPE SPILLS WITH DRY TOWEL.
- I. ROOM WALLS AND CEILING: SEMI-GLOSS ACRYLIC ENAMEL.
- J. PAINTED METAL: SEMI-GLOSS 100% ACRYLIC.
- K. CONCRETE FLOORS: CLEAR PENETRATING SEAL; ONE COAT SYSTEM ACCEPTABLE.
- L. FLOOR STRIPES: TRAFFIC BEARING, NON-SLIP STRIPE PAINT; ONE COAT SYSTEM ACCEPTABLE.
- M. SHEENS: COMPLY WITH ASTM D523, REFLECTANCE OF PAINT.
- P. CLEAN-UP: DURING PROGRESS OF WORK, REMOVE DISCARDED PAINT MATERIALS, RUBBISH, CANIS AND RAGS FROM SITE AT END OF EACH WORK DAY.
  - 1. CLEAN GLASS AND PAINT-SPATTERED SURFACES IMMEDIATELY BY PROPER METHODS OF WASHING AND SCRAPPING, USING CARE NOT TO SCRATCH OR DAMAGE FINISHED SURFACES.
  - 2. PROTECTION: PROTECT WORK OF OTHER TRADES, WHETHER TO BE PAINTED OR NOT, CORRECT DAMAGE BY CLEANING, REPAIRING OR REPLACING, AND REPAINTING, AS ACCEPTABLE TO OWNER'S PROJECT MANAGER.

**SECTION 090000 - PAINTING AND FINISH**

- A. GENERAL: PROVIDE PAINTING OF EXPOSED ITEMS AND SURFACES NOT PREFINISHED, AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
- B. SURFACES NOT TO BE PAINTED: PREFINISHED ITEMS; CONCEALED AND INACCESSIBLE AREAS, CO-SPECIFIED LABELS.
- C. PREPARATION: CONFORM WITH MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION AND WITH ASTM F710. REMOVE SUBFLOOR RIDGES AND BUMPS, FILL LOW SPOTS, CRACKS, JOINTS, HOLES AND DEFECTS WITH SUBFLOOR FILLER.
- D. SUBMITTALS: FURNISH PRODUCT DATA AND SAMPLES.
  - 1. DUPLICATED PAINTED FINISHES OF APPROVED SAMPLES ON ACTUAL WALL SURFACES AND COMPONENTS FOR APPROVAL PRIOR TO COMMENCING WORK.
- E. DELIVERY: DELIVER MATERIALS TO JOB SITE IN ORIGINAL, NEW AND UNOPENED PACKAGES AND CONTAINERS BEARING MANUFACTURER'S NAME AND LABEL.
- F. MANUFACTURER: BENJAMIN MOORE
  - 1. PRIMERS: PROVIDE PREMIUM GRADE PRIMERS RECOMMENDED BY PAINT MANUFACTURER FOR SUBSTRATES INDICATED AND FOR FINISH SYSTEMS SPECIFIED.
  - 2. UNDERCOATS AND BARRIER COATS: PROVIDE UNDERCOAT PAINTS PRODUCED BY SAME MANUFACTURER AS FINISH COATS; USE ONLY THINNERS APPROVED BY PAINT MANUFACTURER, AND USE ONLY WITHIN RECOMMENDED LIMITS.
  - 3. FINISH COATS: PROVIDE FINISH COATS CAPABLE OF BEING WASHED WITH MILD DETERGENT WITHOUT LOSS OF COLOR, SHEEN, OR PIGMENTS.
  - 4. FINISH COAT COORDINATION: PROVIDE FINISH COATS WHICH ARE COMPATIBLE WITH PRIMER PAINTS, UNDERCOATS, AND BARRIER COATS USED; VOLATILE ORGANIC COMPOUNDS: PROVIDE MATERIALS WITH MINIMAL VOLATILE ORGANIC COMPOUNDS (VOC), COMPLY WITH APPLICABLE REGULATIONS.
- H. HARDWARE: MANUFACTURER'S STANDARD CHROME PLATED OR SIMILAR FINISH.
  - 1. HINGES: NONFERROUS CAST PIVOT HINGES, GRAVITY TYPE, ADJUSTABLE FOR DOOR CLOSE POSITIONING.
  - 2. LATCH: SLIDE LATCH; DOOR STRIKE AND KEEPER WITH RUBBER BUMPER.
  - 3. COAT HOOK/BUMPER: CAST ALLOY CHROME PLATED COMBINATION UNIT.
  - 4. HALL BUMPER: CAST ALLOY HALL MOUNTED RUBBER BUMPER FOR OUT SWINGING DOORS.
  - 5. PULLS: COMPLY WITH REQUIREMENTS FOR PROVIDING ACCESS FOR PERSONS WITH DISABILITIES.
- I. INTERNAL REINFORCEMENT: PROVIDE INTERNAL REINFORCEMENT IN AREAS OF ATTACHED HARDWARE AND FITTINGS; MARK LOCATIONS OF REINFORCEMENT FOR PARTITION MOUNTED WASHROOM ACCESSORIES.
- J. PREPARATION: EXAMINE SITE CONDITIONS TO WHICH WORK IS TO BE APPLIED; TAKE SITE DIMENSIONS AFFECTING THIS WORK.

- I. APPLICATION: APPLY PAINT IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS, USE APPLICATORS AND TECHNIQUES BEST SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED.
- J. APPLICATION: APPLY PAINT IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS, USE APPLICATORS AND TECHNIQUES BEST SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED.
- K. SCHEDULING PAINTING: APPLY FIRST COAT TO SURFACES THAT HAVE BEEN CLEANED, PRETREATED OR PREPARED FOR PAINTING AS SOON AS PRACTICABLE AFTER PREPARATION.
- L. ALLOW TIME BETWEEN SUCCESSIVE COATINGS TO PERMIT PROPER DRYING. DO NOT RECOAT UNTIL PAINT FEELS FIRMY AND DOES NOT DEFORM OR FEEL STICKY UNDER MODERATE THUMB PRESSURE.
- M. MINIMUM COATING THICKNESS: APPLY MATERIALS AT NOT LESS THAN MANUFACTURER'S RECOMMENDED SPREADING RATE, TO ESTABLISH A TOTAL DRY FILM THICKNESS AS RECOMMENDED BY COATING MANUFACTURER.
- N. PRIME COATS: APPLY TO ITEMS NOT PREVIOUSLY PAINTED; RECOAT DAMAGED AND WEARED SURFACES WHERE THERE IS EVIDENCE OF SURFACE SPOTS OR UNUSUAL AREAS IN COAT.
- O. FINISH COATS: PROVIDE EVEN TEXTURE, LEAVE NO Voids, IRREGULARITY IN TEXTURE, SKID MARKS, OR OTHER SURFACE IMPERFECTIONS.
- P. PAINT SYSTEM: PROVIDE MINIMUM TWO COAT PLUS PRIMER SYSTEMS.
  - 1. EXT. PAINTED METAL: SEMI-GLOSS 100% ACRYLIC.
  - 2. GYPSUM BOARD WALLS: EGGSHELL (SATIN) LATEX EMULSION.
  - 3. GYPSUM BOARD CEILING: FLAT LATEX EMULSION.
- 1. TOLL: ROOM WALLS AND CEILING: SEMI-GLOSS ACRYLIC ENAMEL.
- 2. PAINTED METAL: SEMI-GLOSS 100% ACRYLIC.
- 3. CONCRETE FLOORS: CLEAR PENETRATING SEAL; ONE COAT SYSTEM ACCEPTABLE.
- 4. FLOOR STRIPES: TRAFFIC BEARING, NON-SLIP STRIPE PAINT; ONE COAT SYSTEM ACCEPTABLE.
- 5. SHEENS: COMPLY WITH ASTM D523, REFLECTANCE OF PAINT.

- 1. ENSURE CORRECT SPACING AND SIZE OF PLUMBING FIXTURES; TAKE SPECIAL NOTE OF FIXTURES IN COMPARTMENTS INDICATED TO BE DESIGNED FOR PERSONS WITH DISABILITIES TO ASSURE CLEARANCES COMPLYING WITH ACCESS REGULATIONS.
- 2. INSTALLATION: INSTALL UNITS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS, SECURE, PLUMB, LEVEL, AND SQUARE; LEAVE 1/2" SPACE BETWEEN WALL, PANELS AND END PILLASTERS.
- 3. ADJUST HINGES TO LOCATE DOORS IN PARTIAL OPEN POSITION WHEN UNLATCHED, EXCEPT ADJUST HINGES TO RETURN DOORS TO CLOSED POSITION AT STALLS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
- 4. ANCHOR URINAL SCREEN PANELS TO WALLS WITH TWO PANEL BRACKETS.
- 5. CLEANING: FIELD TOUCHUP OF SCRATCHES AND DEFACED FINISHES WILL NOT BE PERMITTED; REPLACE DAMAGED, SCRATCHED AND MARRED DEFECTIVE MATERIALS WITH NEW, UNMOUNTED MATERIALS; REMOVED PROTECTIVE MASKING; CLEAN SURFACES FREE OF OIL AND IMPERFECTIONS.

**SECTION 090000.10 - PLASTER**

- A. PREPARATION:
  - 1. PRIME WALLS WITH TWO COATS OF GRAY (PT-98 BENJAMIN MOORE AF-715 "DOLPHIN").
  - 2. ENSURE CORNER BEAD IS INSTALLED AT OUTSIDE CORNERS OF ALL GYP. BD PASS-THRU'S THAT RECEIVE PLASTER FINISH.
  - 3. SAND LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL AND EACH VARNISH COAT.
- K. SCHEDULING PAINTING: APPLY FIRST COAT TO SURFACES THAT HAVE BEEN CLEANED, PRETREATED OR PREPARED FOR PAINTING AS SOON AS PRACTICABLE AFTER PREPARATION.
- L. ALLOW TIME BETWEEN SUCCESSIVE COATINGS TO PERMIT PROPER DRYING. DO NOT RECOAT UNTIL PAINT FEELS FIRMY AND DOES NOT DEFORM OR FEEL STICKY UNDER MODERATE THUMB PRESSURE.
- M. MINIMUM COATING THICKNESS: APPLY MATERIALS AT NOT LESS THAN MANUFACTURER'S RECOMMENDED SPREADING RATE, TO ESTABLISH A TOTAL DRY FILM THICKNESS AS RECOMMENDED BY COATING MANUFACTURER.
- N. PRIME COATS: APPLY TO ITEMS NOT PREVIOUSLY PAINTED; RECOAT DAMAGED AND WEARED SURFACES WHERE THERE IS EVIDENCE OF SURFACE SPOTS OR UNUSUAL AREAS IN COAT.
- O. FINISH COATS: PROVIDE EVEN TEXTURE, LEAVE NO Voids, IRREGULARITY IN TEXTURE, SKID MARKS, OR OTHER SURFACE IMPERFECTIONS.
- P. PAINT SYSTEM: PROVIDE MINIMUM TWO COAT PLUS PRIMER SYSTEMS.
  - 1. EXT. PAINTED METAL: SEMI-GLOSS 100% ACRYLIC.
  - 2. GYPSUM BOARD WALLS: EGGSHELL (SATIN) LATEX EMULSION.
  - 3. GYPSUM BOARD CEILING: FLAT LATEX EMULSION.
- 1. TOLL: ROOM WALLS AND CEILING: SEMI-GLOSS ACRYLIC ENAMEL.
- 2. PAINTED METAL: SEMI-GLOSS 100% ACRYLIC.
- 3. CONCRETE FLOORS: CLEAR PENETRATING SEAL; ONE COAT SYSTEM ACCEPTABLE.
- 4. FLOOR STRIPES: TRAFFIC BEARING, NON-SLIP STRIPE PAINT; ONE COAT SYSTEM ACCEPTABLE.
- 5. SHEENS: COMPLY WITH ASTM D523, REFLECTANCE OF PAINT.

- A. GENERAL: PROVIDE ACUSTICAL CEILING INCLUDING SUSPENSION SYSTEM, TRIM, AND ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
- B. STANDARDS: CONFORM TO ASTM C636 FOR METAL SUSPENSION SYSTEM AND ASTM C636 FOR INSTALLATION OF ACOUSTICAL CEILING.
- C. PERFORMANCE REQUIREMENTS: PROVIDE PRODUCTS LISTED BY UNDERWRITERS LABORATORIES (UL).
  - 1. FLAME SPREAD/SMOKE DENSITY: PROVIDE PRODUCTS MEETING CODE REQUIREMENTS FOR MAXIMUM 25 FLAME SPREAD AND MAXIMUM 25 SMOKE DENSITY.
- D. SEISMIC REQUIREMENTS: COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS FOR SEISMIC BRACING OF CEILING SUSPENSION SYSTEM, AND WITH ASTM E886.
- E. SUBMITTALS: SUBMIT PRODUCT DATA, SHOP DRAWINGS INDICATING LAYOUT, AND SAMPLES OF GRID, TRIM, AND CEILING UNITS.
- F. INSTALLER: FIRM WITH MINIMUM THREE YEAR'S SUCCESSFUL EXPERIENCE IN PROJECTS OF SIMILAR TYPE AND SCOPE; ACCEPTABLE TO MANUFACTURER OF ACOUSTICAL UNITS.
- G. PROJECT CONDITIONS: DO NOT INSTALL CEILING UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATING ACTIVITIES HAVE TERMINATED AND OVERHEAD MECHANICAL WORK IS COMPLETED, TESTED, AND APPROVED; ALLOW NET WORK TO DRY PRIOR TO INSTALLATION.
- H. ACOUSTICAL UNITS: TYPES AS INDICATED ON DRAWINGS.
  - 1. MANUFACTURERS: ARMSTRONG SALES; REFER TO FINISH SCHEDULE FOR ARMSTRONG TYPE. BACK-OF-HOUSE AREAS: REFER TO FINISH SCHEDULE FOR ARMSTRONG TYPE.
- I. SUSPENSION SYSTEM
- MANUFACTURERS: ACOUSTICAL UNIT MANUFACTURER, OR CHICAGO METALLIC.
- 1. TYPICAL: SPECIAL 1/8" NARROW PROFILE WHITE BAKED ENAMEL FINISHED STEEL ALUMINUM TYPE EDGE TRIM WITH VERTICAL LEG CONCEALED.
- 2. BACK-OF-HOUSE AREAS: STANDARD I" PROFILE WHITE BAKED ENAMEL FINISHED STEEL OR ALUMINUM TYPE EDGE TRIM WITH VERTICAL LEG CONCEALED. PREPARATION: MEASURE CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL UNITS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH CEILING; USE LESS THAN HALF WIDTH UNITS AT BORDERS.
- J. COORDINATE WITH OTHER WORK SUPPORTED BY OR PENETRATING THROUGH CEILING, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT AND PARTITION SYSTEMS.
- K. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS AND ASTM C636, AND APPLICABLE REQUIREMENTS FOR FIRE RATINGS.
  - 1. FINISHED CEILING: TIE DOWN LINES AND LEVELS AND FREE FROM WARPED, SOILED OR DAMAGED GRID OR ACOUSTICAL UNITS.
  - 2. INSTALL CEILING SYSTEM: GRID IS CAPABLE OF SUPPORTING SUPERIMPOSED LOADS, WITH MAXIMUM DEFLECTION OF 1/8" PER INCH OF SPAN IN 10'-0".
  - 3. ENSURE SUSPENSION SYSTEM IS TESTED TO ACCOMMODATE FITTINGS AND UNITS OF EQUIPMENT HANGERS BEING PLACED. AFTER INSTALLATION OF CEILING GRID, WHERE UNITS OR OTHER EQUIPMENT REQUIRING REGULAR SPACING OF HANGERS, HANGERS MUST BE PLACED IN REGULAR SPACING OF HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED BY MANUFACTURER'S REQUIREMENTS.
  - 5. INSTALL EDGE CONDITIONS AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USE MAXIMUM BORDERS, STRAIGHT, TRUE TO LINE AND LEVEL; MITER CORNERS.
  - 6. FIT ACOUSTICAL UNITS IN PLACE, FREE FROM DAMAGED EDGES OR DEFECT DEFENSITIVE TO APPEARANCE AND FUNCTION. LAY DIRECTIONALLY PATTERNED UNITS ONE WAY WITH PATTERN AS DIRECTED. FIT BORDER UNITS NEATLY AGAINST CUTTING SURFACES.
  - 7. INSTALL UNITS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST, WARP AND DENTS.
  - 8. INSTALL HOLD-DOWN CLIPS WHERE REQUIRED BY APPLICABLE CODES AND WHERE CEILING IS WITHIN 20'-0" OF AN EXTERIOR DOOR.
- L. ADJUSTMENT: ADJUST SAGS OR TWISTS WHICH DEVELOP IN CEILING SYSTEM AND REPLACE

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