D. MATERIALS

1. TILE TYPES AS SCHEDULED ON THE DRAWINGS.

2. SETTING MATERIALS

2.1. THINSET MORTAR: LATEX-PORTLAND CEMENT IN ACCORDANCE WITH ANSI A118.4, ICC 9; ACRYLIC LATEX ADDITIVE AT ALL LOCATIONS. "KERABOND" WITH "UNIVERSAL KERALASTIC" BY MAPEI CORP, DEERFIELD, FL (800/462-2734), OR "21 CRETE FILLER POWDER" WITH "4237 LATEX THIN-SET ADDITIVE BY LATICRETE INTERNATIONAL, BETHANY CT (800/243-4788); PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER; OR APPROVED.

2.2. RAPID-SET THIN BED MORTAR: LATEX MODIFIED, MINIMUM 400 PSI 28 DAY SHEAR STRENGTH TO PORCELAIN (IMPERVIOUS) TILES; "GRAN/RAPID" WITH "KER 318" FLEXIBLE ADMIXTURE" BY MAPEI CORP; OR "21 CRETE FILLER POWDER" WITH "4237 LATEX THIN-SET MORTAR ADDITIVE" AND "101 RAPID SET LATEX"PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED;" BY LATICRETE INTERNATIONAL, INC.

2.3. ORGANIC ADHESIVES: ANSI A136.1, TYPE I; PROVIDE PRIMER/SEALER AS RECOMMENDED BY THE ADHESIVE MANUFACTURER.

3. GROUT:

3.1. "45 RAVEN"- SPECTRALOCK EPOXY GROUT OR 2000/35 (INDUSTRIAL GROUT) BY LATICRETE INTERNATIONAL.

3.2. FAST SETTING GROUT: "FLOOR JOINT AND GROUT FILLER" WITH "9101 LATEX MORTAR ADMIXTURE" AND "101 RAPID SET LATEX", BY LATICRETE INTERNATIONAL, INC. (PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED.); SANDED, EXCEPT UNSANDED AT JOINTS SCHEDULED AT 1/16 INCH WIDE.

4. METAL SCREED: AS MANUFACTURED BY SCHLUTER SYSTEMS, INC. (800/225-8402); CLEAR ANODIZED ALUMINUM TILE EDGING TRIM SIZES AS REQUIRED FOR INSTALLATION OF TOP OF SCREED FLUSH WITH TOP OF TILE, OR AS OTHERWISE DETAILED.

5. CRACK ISOLATION MEMBRANE: ONE OF THE FOLLOWING:

5.1. LATICRETE "BLUE 92 ANTI-FRACTURE MEMBRANE".

5.2. "PRP 317" BY MAPEI CORP.

6. REINFORCED WATERPROOF MEMBRANE:

6.1. LATICRETE INTERNATIONAL, INC. "LATICRETE 9235 GENERAL PURPOSE WATERPROOF MEMBRANE".

6.2. "NOBLESEAL TS" BY THE NOBLE COMPANY, OR "DAL-SEAL TS." BY DAL-TILE CORP; CPE SHEET WITH NON-WOVEN POLYESTER FABRIC LAMINATED TO BOTH SIDES; NOBLEBOND 21 ADHESIVE BOND COAT.

7. SILOXANE TYPE TILE SEALER:

7.1. CERAMASEAL "MAGIC SEAL" BY BOSTIK/CERAMASEAL (800/523-6530).

7.2. MIRACLE SEALANTS "SH-107 BY MIRACLE SEALANTS AND ABRASIVES COMPANY (800/350-1101).

8. CEMENTITIOUS BACKER BOARD:

8.1. 1/2 INCH NOMINAL THICKNESS AGGREGATED PORTLAND CEMENT PANEL, REINFORCED WITH GLASS FIBER MESH, "WONDERBOARD" BY GUSTOM BUILDING PRODUCTS (800/272-8786), "DUROCK INTERIOR OR EXTERIOR" BY USG, OR GEORGIA PACIFIC "DENS-SHIELD," OR APPROVED.

8.2. TAPE FOR BACKER BOARD: OPEN WEAVE GLASS MESH JOINT TAPE, SELF-ADHESIVE; 2-1/2 INCHES WIDE.

8.3. FASTENERS: AS RECOMMENDED BY THE BACKER BOARD MANUFACTURER; THREAD FORMING SELF-DRILLING WAFER HEAD SCREWS; POLYMER COATED OR ZINC PLATED, USG "DUROCK SCREWS," "ROCK-ON," OR APPROVED.

E. PREPARATION: CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMURITIES, CURING AGENTS, AND OTHER MATERIALS THAT WOULD IMPAIR BOND. CLEAN FLOORS WITH "BLAST-TRACK" UNIT IF NECESSARY.

F. SLAB LEVELING (COORDINATE WITH LANDLORD REQUIREMENTS)

1. PRIOR TO INSTALLATION OF THINSET FLOOR TILE, WHERE LOCAL IRREGULARITIES IN THE SUBSTRATE SURFACE WOULD PREVENT LEVEL INSTALLATION OF THE TILE, THE SUBSTRATE SHALL BE BROUGHT TO PLANE SURFACE WITH VARIATIONS NOT TO EXCEED 1/8 INCH IN 4 FEET (CUMULATIVE) AND 1/4 INCH IN 10 FEET (NON-CUMULATIVE). SMOOTH ALL ABRUPT CHANGES IN PLANE.

2. USE THINSET MORTAR OR OTHER FILLER FOR SLAB LEVELING. OTHER FILLERS ARE SUBJECT TO ENDORSEMENT BY THE SETTING MORTAR MANUFACTURER. SUBMIT MANUFACTURER'S LETTER OF APPROVAL TO THE OWNER / REPRESENTATIVE, AND THE OWNER'S REPRESENTATIVE.

3. SCREED OR FLOAT TO APPROPRIATE THICKNESS AND SPECIFIED SURFACE TOLERANCE. ALLOW TO SET PRIOR TO PROCEEDING WITH INSTALLATION. DO NOT EXCEED THE MAXIMUM THICKNESSES FOR THIN BED MORTAR AS RECOMMENDED BY THE MANUFACTURER.

G. CRACK ISOLATION:

1. INSTALL CRACK ISOLATION MEMBRANE ON A UNIT PRICE BASIS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE.

2. CRACK ISOLATION MEMBRANE MAY BE REQUIRED AT THE FOLLOWING LOCATIONS:

2.1. AT CONTROL AND CONSTRUCTION JOINTS IN CONCRETE FLOORS.

2.2. AT CHANGES IN SUBSTRATE MATERIALS.

2.3. SHRINKAGE CRACKS 1/16 INCH OR LARGER IN EXISTING SLABS.

3. EXTEND A MINIMUM OF 24 INCHES EACH SIDE OF CRACK OR JOINT.

4. SUBSTRATE EXAMINATION:

4.1. SUBSTRATES ARE SUBJECT TO EXAMINATION BY THE OWNER AND THE OWNER / REPRESENTATIVE PRIOR TO INSTALLATION OF TILE OR SLAB LEVELING MATERIALS. FURNISH A MINIMUM OF 7 DAYS NOTICE.

4.2. THE EXAMINATION WILL DETERMINE THE NEED FOR CRACK ISOLATION MEMBRANE AT LOCATIONS SCHEDULED ABOVE.

1. INSTALL WATERPROOF MEMBRANE INTO CLAMPING RING OF FLOOR DRAINS.

2. PROTECT WATERPROOF MEMBRANE FROM DAMAGE UNTIL AFTER TILE INSTALLATION IS COMPLETE.

3. MEMBRANE LOCATIONS ARE SCHEDULED AT THE END OF THIS SECTION.

4. FLOOD TESTING OF MEMBRANE:

0.1. WATER TEST WATERPROOF MEMBRANE INSTALLATIONS AT ABOVE GRADE FLOORS PRIOR TO INSTALLATION OF TILE.

0.2. NOTIFY THE OWNER / REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO TESTING.

0.3. VERIFY THAT ELEMENTS INSTALLED BY OTHER TRADES WHICH PENETRATE THE MEMBRANE ARE SEALED AND READY TO RECEIVE TESTING.

0.4. PLUG DRAINS AND PROVIDE WATER DAMS TO CONTAIN THE WATER.

0.5. FILL TEST AREA WITH WATER TO A DEPTH OF 1 INCH AT THE SHALLOWEST POINT, AND LEAVE FOR A MINIMUM OF 24 HOURS.

0.6. REPAIR LEAKS OBSERVED FROM TEST; RETEST AS NECESSARY TO ACHIEVE A LEAK-FREE INSTALLATION.

H. WATERPROOF MEMBRANE INSTALLATION:

1. INSTALL WATERPROOF MEMBRANES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2. EXCEPT WHERE INDICATED OTHERWISE, EXTEND WATERPROOF MEMBRANE UP THE WALL TO 4 INCH MINIMUM HEIGHT. DO NOT EXPOSE THE WATERPROOF MEMBRANE TO VIEW.

I. SCREED INSTALLATION:

1. INSTALL SCREEDS AT TILE FIELD EDGES AT THE LOCATIONS INDICATED.

2. ACCURATELY CUT TO LENGTH FOR FLUSH TIGHTLY BUTTED JOINTS. PROVIDE MITER CUT ANGLE JOINTS. REMOVE BURRS AT FIELD CUTS.

3. INSTALL IN LONGEST POSSIBLE LENGTHS, EXCEPT THAT NO SCREED SECTION SHALL BE LONGER THAN 12 FEET OR SHORTER THAN 4 FEET IN LENGTH FOR CONTINUOUS RUNS GREATER THAN 16 FEET.

4. INSTALL SCREEDS FREE FROM WAVES AND VARIATIONS IN HEIGHT, FLUSH WITH TOP OF ADJACENT TILE SURFACES.

5. SET SCREEDS DIRECTLY IN SETTING BED AS THE TILE INSTALLATION PROCEEDS. COMPLY WITH SCREED MANUFACTURER / INSTRUCTIONS TO ACHIEVE MORTAR TIGHTLY COMPACTED BETWEEN SCREED AND TILE EDGE.

6. GRIND SCREED JOINTS AS NECESSARY TO CORRECT MINOR MISALIGNMENT AND TO EASE SHARP OUTSIDE CORNERS.

D. CEMENTITIOUS BACKER BOARD INSTALLATION

1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2. INSTALL UNITS WITH EDGES FIRMLY SUPPORTED.

3. SCREW-ATTACH UNITS WITH 1 INCH LONG DRYWALL SCREWS SPACED 6 INCHES ON CENTER ALONG FRAMING.

4. INSTALL FIBERGLASS REINFORCING TAPE AT JOINTS BETWEEN PANELS. COMPLETELY EMBED IN A THIN SET MORTAR BED. TROWEL MORTAR SMOOTH WITH ADJACENT SURFACES.

5. CEMENT BACKER BOARD SHALL BE USED AT ALL VERTICAL MORTAR-SET STONE LOCATIONS.

K. INSTALLATION OF INTERIOR TILE:

1. INTERIOR FLOOR APPLICATION - THINSET OVER CONCRETE SUBSTRATE OR CRACK ISOLATION MEMBRANE:

1.1. TCA SYSTEM SIMILAR TO F181.

1.2. INSTALLATION STANDARD: ANSI A108.5.

1.3. SETTING MATERIALS: THINSET MORTAR; 3/32-INCH MINIMUM THICKNESS.

2. WALL APPLICATION - GYPSUM BOARD SUBSTRATE:

2.1. TCA SYSTEM: SIMILAR TO W243, OR W223.

2.2. INSTALLATION STANDARD: ANSI A108.5 OR A108.4

2.3. SETTING MATERIALS: THINSET MORTAR OR ORGANIC ADHESIVE.

2.4. JOINT PATTERN:

2.4.1. LAY OUT TILE PATTERN PRIOR TO COMMENCING TILE INSTALLATION.

2.4.2. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITHIN SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT TILES AT FIELD TILES.

2.4.3. WHERE CUT TILES ARE NECESSARY, POSITION FLOOR TILE SUCH THAT CUT TILE AT EACH EDGE OF EACH RECTLINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT.

3. WALL APPLICATION - THINSET OVER CEMENTITIOUS BACKING BOARD SUBSTRATE:

3.1. TCA SYSTEM: SIMILAR TO W244.

3.2. INSTALLATION STANDARD: ANSI A108.5 OR A108.4

3.3. SETTING MATERIALS: THINSET MORTAR.

3.4. JOINT PATTERN:

3.4.1. LAY OUT TILE PATTERN PRIOR TO COMMENCING TILE INSTALLATION.

3.4.2. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITHIN SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT TILES AT FIELD EDGES

3.4.3. WHERE CUT TILES ARE NECESSARY, POSITION FLOOR TILE SUCH THAT CUT TILE AT EACH EDGE OF EACH RECTLINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT.

4. JOINT PATTERN:

4.1. LAY OUT TILE PATTERN PRIOR TO COMMENCING TILE INSTALLATION.

4.2. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITHIN SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT TILES AT FIELD EDGES.

4.3. WHERE CUT TILES ARE NECESSARY, POSITION FLOOR TILE SUCH THAT CUT TILE AT EACH EDGE OF EACH RECTLINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT.

4.4. UNLESS OTHERWISE INDICATED, TILE JOINTS SHALL BE 1/8" WIDE.

5. CLEAN JOINTS OF MORTAR TO MINIMUM DEPTH OF 1/4 INCH TO ALLOW SUBSEQUENT GROUT INSTALLATION.

6. TOLERANCES:

6.1. JOINT WIDTH VARIATION: PLUS OR MINUS 25% OF THE PROPOSED JOINT WIDTH.

6.2. TAPER: PLUS OR MINUS 25% FROM ONE END TO THE OTHER.

6.3. NO PORTION OF A TILE SURFACE SHALL VARY MORE THAN 1/16 INCH ABOVE OR BELOW AN ADJACENT TILE SURFACE.

6.4. INSTALL TILE FIELDS LEVEL TO WITHIN TOLERANCE SPECIFIED FOR FINISHED SUBSTRATE.

7. SPECIAL FLOOR TILE INSTALLATION REQUIREMENTS:

7.1. WASH BACKS OF EACH TILE TO REMOVE ALL DUST AND SOIL THAT WOULD COMPROMISE ADHESION.

7.2. DAMPEN SUBSTRATE AS NECESSARY TO PREVENT EXCESSIVE SUCTION. TROWEL MORTAR ONTO SURFACES TO RECEIVE TILE.

7.3. APPLY MORTAR BOND COAT WITH NOTCHED TROWEL AS REQUIRED FOR PROPER LEVEL.

7.4. SET TILE WITHIN TIME SPAN RECOMMENDED BY MORTAR MANUFACTURER.

7.5. BACK BUTTER TILES PRIOR TO SETTING TO ACHIEVE MAXIMUM MORTAR COVERAGE OVER BACK OF TILE AND SUBSTRATE.

7.6. SET TILES IN ACCURATE ALIGNMENT. BEAT IN WITH A WOOD BLOCK, RUBBER HAMMER, OR THIST AS NECESSARY TO LEVEL TILES.

L. GROUTING:

1. MIX GROUTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

2. GROUT ALL JOINTS, EXCEPT EXPANSION JOINTS, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FLOAT JOINTS TO A SLIGHTLY CONCAVE PROFILE.

3. REMOVE EXCESS GROUT FROM TILE SURFACES IN ACCORDANCE WITH THE GROUT AND TILE MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXCESS AMOUNTS OF WATER.

4. PROTECT ADJACENT SURFACES FROM DAMAGE IF ACID CLEANERS ARE USED.

5. DO NOT GROUT JOINTS INDICATED TO RECEIVE SEALANTS, INCLUDING INSIDE RIGHT ANGLE CORNER JOINTS BETWEEN FLOORS AND WALLS OF COLUMN BASES. GROUT JOINTS PERPENDICULAR TO EXPANSION JOINTS SHALL BE FINISHED FLUSH WITH TILE EDGES.

6. CURED GROUT JOINTS SHALL BE MADE FREE OF EFFLORESCENCE, PRIOR TO SEALING.

7. CURE INSTALLATION IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. PROTECT TILE AND GROUT DURING CURING OPERATIONS.

M. EXPANSION JOINT

1. PLACE EXPANSION JOINTS AS INDICATED ON THE DRAWINGS, BUT IN NO CASE MORE THAN 30-FOOT INTERVALS FOR INTERIOR INSTALLATIONS.

2. PLACE EXPANSION JOINTS AT CONTROL AND EXPANSION JOINTS IN CONCRETE SLABS, AND AT INTERSECTIONS WITH WALLS AND COLUMNS.

3. JOINT SIZES: SET TO MATCH WIDTH OF TYPICAL GROUTED JOINT.

4. LEAVE EXPANSION JOINTS FREE OF MORTAR.

5. SEALANT MATERIALS AND INSTALLATION ARE SPECIFIED IN SECTION 07920.

N. CLEANING: WASH AND THOROUGHLY RINSE ALL TILE. LEAVE ALL TILE SURFACES CLEAN.

O. TILE SEALING:

1. APPLY SEALER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE MAXIMUM PENETRATION INTO GROUTS.

2. WIPE TILE SURFACES AFTER APPLICATION AS NECESSARY TO REMOVE ALL VISIBLE SEALER RESIDUE.

P. SPECIAL PROTECTION REQUIREMENTS FOR TILE SURFACES:

1. AREAS SUBJECT ONLY TO FOOT TRAFFIC: LAY DOWN NON-STAINING CURING PAPER LAPPED AND SEALED AT JOINTS AND EDGES WITH NASHUA BRAND DUCT TAPE. DO NOT USE POLYETHYLENE OR PRODUCTS CONTAINING BITUMINOUS MATERIALS.

2. AREAS SUBJECT TO ROLLING TRUCKS, DOLLIES AND OTHER EQUIPMENT: IN ADDITION TO THE ABOVE, SUCH AREAS SHALL BE FURTHER PROTECTED BY CONTINUOUS PLYWOOD OR HARDBOARD RUNWAYS. COORDINATE DESIGNATION OF SUCH AREAS.

SECTION - 09510 - ACOUSTICAL CEILINGS

A. REFERENCES:

1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

1.1. C635 - METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS.

1.2. C636 - RECOMMENDED PRACTICE FOR THE INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS.

B. PRODUCTS:

1. CEILING TILE: PER FINISH LEGEND

2. SUSPENSION SYSTEM:

2.1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH PROJECT REQUIREMENTS, PROVIDE SUSPENSION SYSTEM FROM ONE OF THE FOLLOWING:

2.1.1. "PROTECTONE" ALUMINUM CAPPED, BY BPB CELOTEX.

2.1.2. ZXA, BY USG.

2.2. MATERIALS:

2.2.1. GRID: ASTM C635, INTERMEDIATE DUTY, STEEL EXPOSED T; NOMINAL 1 INCH WIDTH; STAB-IN CONNECTIONS.

2.2.2. ACCESSORIES: STABILIZER BARS, CLIPS, AND SPLICES.

2.2.3. GRID FINISH: WHITE.

2.2.4. SUPPORT SYSTEM: HOT OR COLD ROLLED STEEL CHANNELS; GALVANIZED HANGER WIRE, MINIMUM 12 gauge.

2.2.5. EDGE MOLDINGS: METAL CHANNEL WITH EXPOSED FLANGE TO MATCH SUSPENSION SYSTEM.

C. INSTALLATION:

1. INSTALL SYSTEM IN ACCORDANCE WITH ASTM C636 AND THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

2. INSTALL GRID TO PRODUCE FINISHED CEILING TRUE TO LINES AND LEVELS INDICATED, WITHIN THE SPECIFIED TOLERANCES.

3. INSTALL SUSPENSION SYSTEMS IN A MANNER TO SUPPORT ALL SUPERIMPOSED LOADS, WITH MAXIMUM PERMISSIBLE DEFLECTION OF 1/270 OF SPAN.

4. HANG SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSIONS SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.

5. CENTER SYSTEM ON ROOM AXIS ACCORDING TO REFLECTED CEILING PLANS.

6. PROVIDE ALL ANCHORS REQUIRED FOR THE INSTALLATION OF THE CEILING SYSTEM. DO NOT ANCHOR SYSTEM IN ANY MANNER THAT MIGHT CAUSE DAMAGE TO THE STRUCTURAL SYSTEM.

7. INSTALL EDGE MOLDING AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USING LONGEST PRACTICAL LENGTHS, MITER CORNERS. PROVIDE EDGE MOLDINGS AT JUNCTIONS WITH OTHER INTERRUPTIONS. FABRICATE EDGE MOLDINGS TO FIT THE SURFACES ENCOUNTERED.

8. FIT ACOUSTIC LAY-IN PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES. SCRIBE AND MILL RECESSED TEGULAR EDGE INTO PARTIAL BORDER UNITS SUPPORTED AT EDGE BY WALL MOLDING.

9. HOLD-DOWN CLIPS: INSTALL HOLD-DOWN CLIPS AT PANELS WITHIN 20 FEET OF AN EXTERIOR DOOR.

10. TOLERANCES:

10.1. VARIATION FORM FLAT AND LEVEL SURFACE: 1/8 INCH IN 10 FEET

10.2. VARIATION FROM PLUMB OF GRID MEMBERS CAUSED BY ECCENTRIC LOADS: TWO DEGREES MAXIMUM.

SECTION - 09650 - RESILIENT FLOORING

A. MATERIALS:

1. RESILIENT FLOORING:

1.1. TILE (T): AS SCHEDULED ON THE DRAWINGS.

2. LATEX UNDERLAYMENT: WHITE PREMIX LATEX FILLER, MIXED WITH WATER TO PRODUCE A CEMENTITIOUS PASTE.

3. PRIMERS AND ADHESIVES: TYPES AS RECOMMENDED BY RESILIENT FLOORING AND BASE MANUFACTURERS FOR SPECIFIC APPLICATION.

4. TRANSITION STRIPS:

4.1. COLORS: TO BE STAINLESS

B. PREPARATION: PREPARE FLOOR AS NECESSARY FOR A SMOOTH, LEVEL, HARD SURFACE BY APPLYING FILLER TO FILL LOW SPOTS, CRACKS, CONSTRUCTION JOINTS, HOLES AND OTHER DEFECTS, AND AS REQUIRED TO ADJUST LEVELS TO FREE FLOOR SURFACE FREE OF DEFECTS IN ACCORDANCE WITH ASTM F710 OR OF UNIFORM SLOPE OF UNIFORM STRAIGHT, LEVEL, HARD SURFACE. PROHIBIT TRAFFIC OVER FILLER.

2. UNLESS INDICATED OTHERWISE, INSTALL RESILIENT FLOORING WITH JOINTS AND SEAMS PARALLEL TO BUILDING LINES.

3. TERMINATE RESILIENT FLOORING AT CENTERLINE OF DOOR AT DOOR OPENINGS WHERE ADJACENT FLOOR FINISH IS DISSIMILAR, AND WHERE NO THRESHOLD IS INDICATED.

4. INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES WHERE FLOORING TERMINATES.

5. SCRIBE FLOORING TO WALLS, COLUMNS, CABINETS, FLOOR OUTLETS AND OTHER APPURTENANCES TO PRODUCE TIGHT JOINTS.

6. CLEAN SUBSTRATE. SPREAD CEMENT EVENLY IN QUANTITY RECOMMENDED BY MANUFACTURER TO ENSURE ADHESION OVER ENTIRE AREA OF INSTALLATION. SPREAD ONLY ENOUGH ADHESIVE TO PERMIT INSTALLATION OF FLOORING BEFORE INITIAL SET.

7. SET FLOORING IN PLACE; PRESS WITH HEAVY ROLLER TO ENSURE FULL ADHESION.

D. SPECIAL REQUIREMENTS FOR RESILIENT TILE:

1. OPEN FLOOR TILE CARTONS, ENOUGH TO COVER EACH AREA, AND MIX TILE TO ENSURE SHADE VARIATIONS DO NOT OCCUR WITHIN ANY ONE AREA.

2. INSTALL TILES AS INDICATED ON THE DRAWINGS.

3. INSTALL WITH MINIMUM TILE WIDTH 1/2 FULL SIZE AT ROOM OR AREA PERIMETER, UNLESS INDICATED OTHERWISE.

4. ARRANGE TO SQUARE GRID PATTERN WITH ALL JOINTS ALIGNED, WITH PATTERN GRAIN ALTERNATING WITH ADJACENT UNIT TO PRODUCE BASKET WEAVE PATTERN WITH PATTERN GRAIN PARALLEL FOR ALL UNITS AND PARALLEL TO THE LENGTH OF THE ROOM.

E. SEAL JOINT BETWEEN FLOORING AND ADJACENT MATERIALS AT RESTROOMS, BATHROOMS, BREAKROOMS, AND OTHER MOIST AREAS WITH CLEAR SILICONE SEALANT.

F. SPECIAL PROTECTION REQUIREMENTS FOR INTERIOR RESILIENT TILE SURFACES:

1. AREAS SUBJECT ONLY TO FOOT TRAFFIC: LAY DOWN NON-STAINING CURING PAPER LAPPED AND SEALED AT JOINTS AND EDGES WITH NASHUA BRAND DUCT TAPE. DO NOT USE POLYETHYLENE OR PRODUCTS CONTAINING BITUMINOUS MATERIALS.

2. AREAS SUBJECT TO ROLLING TRUCKS, DOLLIES AND OTHER EQUIPMENT: IN ADDITION TO THE ABOVE, SUCH AREAS SHALL BE FURTHER PROTECTED BY CONTINUOUS PLYWOOD OR HARDBOARD RUNWAYS. COORDINATE DESIGNATION OF SUCH AREAS.

SECTION 09651 - SELF - LEVELING UNDERLAYMENT (IF REQD.)

A. ULTRPLAN 1

HIGH PERFORMANCE, QUICK-SETTING - LEVELING UNDERLAYMENT
CONTACT MAPEI
NORTH AMERICAN HEADQUARTERS
144 EAST NEWPORT CENTER DRIVE
DEERFIELD BEACH, FLORIDA 33442
PHONE (954) 246 8888
FAX (954) 246 8500
WWW.mapei.com

SECTION - 09720 - WALLCOVERINGS

A. MATERIALS:

1. WALL COVERINGS: AS SCHEDULED ON THE DRAWINGS.

2. ADHESIVES: AS RECOMMENDED BY THE WALL COVERING MANUFACTURER.

3. ALL WALL COVERINGS SHALL HAVE A MAXIMUM FLAME SPREAD OF 75 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84. FIRE RETARDANT TREAT ALL NONCONFORMING WALL COVERING. TREATMENT SHALL NOT ALTER THE APPEARANCE OF THE FABRIC.

B. PREPARATION:

1. REMOVE ELECTRICAL OUTLET AND SWITCH PLATES, MECHANICAL DIFFUSERS, ESCUTCHEONS, REGISTERS, SURFACE HARDWARE, FITTINGS, AND FASTENINGS PRIOR TO STARTING WORK; STORE DURING AND REPLACE AFTER WORK.

2. AT EXISTING PAINTED SURFACES, EVENLY ROUGHEN WITH A MEDIUM GRIT GARNET PAPER, WASH WITH TSP, WIPE CLEAR WATER, ALLOW TO DRY, AND SIZE WITH WALL COVERING ADHESIVE.

C. INSTALLATION - WALL COVERING ON GYPSUM WALL BOARD:

1. MIX AND APPLY ADHESIVES IN STRICT ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S DIRECTIONS FOR THE TYPE OF MATERIAL BEING APPLIED.

2. INSTALL WALL COVERING SECURE, SMOOTH, CLEAN, AND WITHOUT WRINKLES, GAPS OR OVERLAPS.

3. EXTEND WALL COVERING CONTINUOUSLY BEHIND SUCH ITEMS AS MIRRORS, AND OTHER ITEMS WHICH ARE CLOSE TO BUT NOT TOUCHING WALLS.

4. INSTALL WALL COVERING WHERE SCHEDULED IN STRICT ACCORDANCE WITH THE WALL COVERING MANUFACTURERS RECOMMENDATIONS.

5. PROVIDE DOUBLE-CUT SEAMS ON NONMATCH PATTERNS; BUTT SEAMS ON MATCH PATTERNS.

6. HORIZONTAL SEAMS ARE NOT PERMITTED.

7. CORNER SEAMS: MAKE NO SEAMS WITHIN 6 INCHES OF AN INSIDE OR OUTSIDE CORNER, EXCEPT WHERE A COLOR OR PATTERN CHANGE IS INDICATED. LAP WALL COVERINGS AT INSIDE CORNER SEAMS TO PREVENT SUBSTRATE SHOW THROUGH.

8. FABRICS:

8.1. USE FABRIC ROLLS IN CONSECUTIVE NUMERICAL SEQUENCE OF MANUFACTURE.

8.2. PLACE FABRIC SECTIONS CONSECUTIVELY IN EXACT ORDER IN WHICH THEY ARE CUT FROM THE ROLL INCLUDING FILLING ALL SPACES ABOVE OR BELOW WINDOWS, DOORS, RELIGHTS, OR SIMILAR PENETRATIONS.

8.3. TRIM PATTERNED FABRICS WHICH ARE NOT FACTORY PRETRIMMED ON A WORK TABLE WITH A STRAIGHT EDGE AND AN INDUSTRIAL RAZOR BLADE FOR EXACT PATTERN MATCH.

9. INSTALL WALL COVERING SECURE, SMOOTH AND FREE OF WRINKLES, GAPS AND OVERLAPS.

D. CLEANUP:

1. REPLACE ALL REMOVED WALL PLATES AND OTHER ACCESSORIES.

2. REPAIR TO LIKE-NEW CONDITION, OR REPLACE AS DIRECTED BY THE OWNER'S REPRESENTATIVE, ALL SURFACES DAMAGED BY WORK OF THIS SECTION.

E. EXCESS YARDAGE:

1. NOTIFY DESIGNATED OWNER'S REPRESENTATIVE AT THE SITE PRIOR TO REMOVING EXCESS YARDAGE FROM THE JOB. THE OWNER'S REPRESENTATIVE WILL SELECT THE MATERIALS WHICH ARE TO BE RETAINED BY THE OWNER.

2. CAREFULLY WRAP THE EXCESS YARDAGE SELECTED TO BE RETAINED. DELIVER TO A LOCATION ON SITE AS DIRECTED BY THE OWNER. REMOVE REMAINDER FROM THE SITE AND DISPOSE OF LEGALLY.

SECTION - 09775 - FIBERGLASS REINFORCED PLASTIC (FRP) PANEL WALL COVERING

A. SUMMARY: FIBERGLASS REINFORCED PLASTIC PANEL (FRP) WALL COVERING.

B. REFERENCES: AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM): E84 - TEST METHOD FOR SURFACE BURNING CHARACTERSTICS OF BUILDING MATERIALS

C. DELIVERY, STORAGE AND HANDLING: COMPLY WITH REQUIREMENTS OF SECTION 01600.

D. ENVIRONMENTAL CONDITIONS:

1. MAINTAIN A MINIMUM TEMPERATURE OF 60 DEGREES F AND RELATIVE HUMIDITY AS PRESCRIBED BY THE ADHESIVE MANUFACTURER, DURING INSTALLATION, AND UNTIL INSTALLED ADHESIVE IS FULLY CURED.

2. ALLOW NO CONTAINERS OF ADHESIVE TO BE OPENED UNTIL ALL POTENTIAL SOURCES OF FLAME OR SPARK HAVE BEEN SHUT DOWN OR EXTINGUISHED AND UNTIL WARNINGS AGAINST THEIR IGNITION DURING ADHESIVE APPLICATION HAVE BEEN POSTED.

3. PROVIDE VENTILATION TO DISPERSE FUMES DURING APPLICATION OF SOLVENT-BASED ADHESIVE.

E. PANEL SYSTEM COMPONENTS:

1. PANEL MATERIAL:

1.1. PANEL TYPE: FIBERGLASS REINFORCED POLYESTER PANELS, WITH EMBOSSED TEXTURED FACE.

1.2. THICKNESS: 3/32 INCH.

1.3. SIZE: 48 INCHES X LENGTH REQUIRED FOR CONDITIONS INDICATED.

1.4. FIRE RATING: MAXIMUM 25/450 FLAME SPREAD / SMOKE DEVELOPED IN ACCORDANCE WITH ASTM E84.

1.5. MANUFACTURER/TYPE: SEE FINISH LEGEND

2. MOLDINGS: MANUFACTURER'S STANDARD PVC CAP, CORNER, AND DIVISION MOLDINGS; COLOR TO MATCH PANELS. OMIT BOTTOM TRIM WHERE PANEL ABUTS FLASH COVED BASE.

3. PANEL AND MOLDING INSTALLATION ADHESIVE:

3.1. MARLITE BRAND C-551 CONSTRUCTION ADHESIVE.

3.2. FURNISH ADHESIVE SPREADERS WITH 3/16 INCH V-NOTCHES, 5/16 INCH APART FOR APPLICATION OF ADHESIVE TO PANELS.

4. SEALANT: FLEXIBLE WATERPROOF SEALANT FOR BEDDING PANEL EDGES, MARLITE BRAND SILICONE SEALANT MS 251 BY MARLITE, OR SILICONE SEALANT 52556 BY KEMLITE COMPANY.

F. CONDITION OF SURFACES:

1. SUBSTRATE: VERIFY THAT DRYWALL SUBSTRATE IS CLEAN, DRY, SOLID, STRAIGHT, AND FREE FROM PROJECTIONS.

2. WHERE CONDITIONS REQUIRE INSTALLATION OF PANELING PRIOR TO INSTALLATION OF FLOORING, COORDINATE WITH OTHER TRADES TO ESTABLISH ACCURATE LOCATION OF TOP OF BASE.

3. DO NOT START WORK UNTIL OTHER WORK REQUIRING PENETRATION OF WALL COVERING HAS BEEN COMPLETED, OR ACCURATELY LOCATED.

4. COMMENCEMENT OF PLASTIC PANELING WALL COVERING WORK CONSTITUTES INSTALLER'S ACCEPTANCE OF THE SUBSTRATE.

G. CUTTING AND FITTING:

1. CUT PANELS ACCURATELY TO SIZE WITH PROPER ALLOWANCE FOR EXPANSION AND MOLDINGS.

2. SAND OR FILE ALL EDGES SMOOTH WITHOUT CHIPPING.

3. CUT OPENINGS FOR PENETRATIONS IN ACCURATE LOCATION WITH APPROXIMATE 1/8-INCH CLEARANCE AROUND PENETRATIONS.

H. INSTALLATION:

1. ESTABLISH CENTERLINE OF EACH DISTINCT FLAT AREA TO BE COVERED. TRIM DIVISION MOLDINGS TO MATE WITH BASE MOLDINGS; INSTALL IN SOLID BED OF ADHESIVE, EITHER ON CENTERLINE, OR OFFSET 24 INCHES FROM CENTER, AS NECESSARY TO MAXIMIZE PANEL WIDTHS AT CORNERS. MOLDING SHALL BE INSTALLED STRAIGHT AND PLUMB.

2. CUT TOP CAP AND DIVISION OR CORNER MOLDINGS TO SHAPE, WITH EDGES TRI