

**DIVISION 7 -- MOISTURE PROTECTION**

**BUILDING INSULATION  
SECTION 07200**

**PART ONE -- GENERAL**

1.01 SCOPE: THE WORK OF THIS SECTION INCLUDES INSULATION AT EXTERIOR WALLS AND ELSEWHERE AS SHOWN ON THE DRAWINGS.

**PART TWO -- MATERIALS**

2.01 THERMAL INSULATION: INORGANIC GLASS FIBER BLANKETS WITH VAPOR BARRIER, 6" THICK, R-19.

**PART THREE -- EXECUTION**

3.01 INSTALL THERMAL INSULATION ON TOP OF SUSPENDED CEILING TILES IN ATTIC SPACE AND IN WALL VOIDS OF EXTERIOR WALLS UNLESS NOTED OTHERWISE IN DRAWINGS. INSTALL ON OUTSIDE OF WATER PIPES IN EXTERIOR WALL.

**CAULKING AND SEALANTS  
SECTION 07800**

**PART ONE -- GENERAL**

1.01 SCOPE: THE WORK OF THIS SECTION INCLUDES ALL SEALANTS AND CAULKING, BOTH INTERIOR AND EXTERIOR.

**PART TWO -- MATERIALS**

2.01 GENERAL REQUIREMENTS: POLYSULFIDE (THIOLAK) BASE CAULKING COMPOUND, SYNTHETIC CAULK CG9 BY PECORA, OR APPROVED EQUAL. COLORS SHALL REASONABLY MATCH THAT OF ADJOINING WORK.

**PART THREE -- EXECUTION**

3.01 JOB CONDITIONS: APPLY MATERIALS ONLY WHEN THE TEMPERATURE OF SPACES, MATERIALS, AND SURFACES IS ABOVE 40 DEGREES F. USE MATERIALS WITHIN THE MANUFACTURER'S RECOMMENDED SHELF-LIFE PERIOD; REMOVE FROM THE JOB ANY MATERIALS WHOSE SHELF-LIFE PERIOD EXPIRES AFTER BEING BROUGHT TO THE JOB, AND REPLACE WITH FRESH MATERIAL.

**3.02 APPLICATION:**

A. APPLY CAULKING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS; USING PRESSURE TYPE CAULK GUN. PRIME SIDES OF JOINTS BEFORE APPLYING CAULKING IF RECOMMENDED BY THE MANUFACTURER. JOINT WIDTH AND DEPTH OF SEALANT IN JOINTS SHALL BE MINIMUM 1/8". IN LARGE JOINTS, THE DEPTH OF SEALANT SHALL BE ONE HALF THE WIDTH OF THE JOINT. IF REQUIRED, PACK SPACES WITH COMPRESSIBLE MATERIALS, COMPATIBLE WITH THE CAULKING MATERIAL, TO WITHIN THE PROPER DISTANCE OF THE FINISHED JOINT. THEN FILL JOINT WITH CAULKING MATERIAL. PROTECT ADJACENT AREAS NOT TO RECEIVE SEALANTS AND CAULKING. REMOVE PROMPTLY IF CAULKING OR SEALANT DOES GET ON THESE SURFACES. CLEAN SATISFACTORILY OR REPEAT. REMOVE FROM THE JOB ANY GUN NOZZLES TO FIT JOINTS. FINISH JOINTS NEATLY. REMOVE EXCESS MATERIAL. LEAVE JOINTS CLEAN.

B. CAULK JOINTS BETWEEN DOOR FRAMES AND ADJOINING WORK, AT ALL JOINTS BETWEEN DIFFERENT MATERIALS, AND ELSEWHERE AS SHOWN OR REQUIRED TO SEAL JOINTS WIND AND WATER TIGHT. EXERCISE CARE TO SEAL ALL OPENINGS IN EXTERIOR WALLS TO BE WIND, WATER AND INSECT TIGHT.

C. USING SPECIFIED SEALANT, SEAL BETWEEN FOOD SERVICE EQUIPMENT AND ADJOINING WALL, BASES, ETC., AS REQUIRED TO SEAL CRACKS OR OTHER OPENINGS, AND AROUND PIPES, SO TO PREVENT ACCESS OF VERMIN AND ACCUMULATION OF CRUMBS, GREASE OR OTHER FOREIGN SUBSTANCES.

D. ALL EXPOSED WOOD SURFACES IN CABINETS / COUNTERS AND ALL PENETRATIONS IN MILLWORK ARE TO BE SEALED.

**DIVISION 8 -- DOORS AND WINDOWS**

**STEEL DOORS AND FRAMES  
SECTION 08100**

**PART ONE -- GENERAL**

1.01 SCOPE: THE WORK OF THIS SECTION INCLUDES FURNISHING OF ALL HOLLOW METAL DOORS AND STEEL FRAMES. INSTALLATION OF DOORS AND FRAMES IS INCLUDED UNDER SECTION 06200.

1.01 MARKING: SHIP DOORS AND FRAMES TO JOB WITH EACH ITEM IDENTIFIED WITH ARCHITECT'S MARK.

1.03 PROTECTION AND CLEANING: PROTECT ALL DOOR FRAMES AND DOORS FROM DAMAGE DURING TRANSPORTATION AND AT THE JOB SITE; STORE AT THE SITE UNDER COVER ON WOOD BLOCKING OR ON SUITABLE FLOOR. AFTER INSTALLATION, PROTECT FROM DAMAGE DURING SUBSEQUENT CONSTRUCTION ACTIVITIES. DAMAGED WORK WILL BE REJECTED AND SHALL BE REPLACED WITH NEW WORK.

**PART TWO -- MATERIALS**

2.01 METAL FRAMES: FLUSH DOUBLE RABBIT ARC-WELDED FRAMES BY CECO, REPUBLIC, CURRIES OR EQUAL OF DEPTHS AND CONFIGURATIONS SHOWN ON THE DRAWINGS. PROVIDE WEATHER HOOD FULL WIDTH OF FRAME AT HEAD ON EXTERIOR SIDE OF EXTERIOR DOORS. INTERIOR DOOR FRAMES TO UTILIZE KNOCK-DOWN METAL FRAMES BY TIMELY, OR EQ., PREPARE FRAME AT FACTORY FOR HARDWARE INSTALLATION. PROVIDE METAL ANCHORS OF SHAPES AND SIZES INDICATED ON JAMBS NEAR TOP AND BOTTOM OF EACH FRAME AND AT INTERMEDIATE POINTS NOT OVER 24" ON CENTER. PROVIDE TEMPORARY STEEL SPREADERS FASTENED ACROSS BOTTOM OF FRAMES, WHERE CONSTRUCTION WILL PERMIT CONCEALMENT, LEAVE SPREADERS IN PLACE AFTER INSTALLATION; OTHERWISE, REMOVE SPREADERS AFTER FRAMES ARE SET AND ANCHORED.

2.02 HOLLOW METAL DOORS: METAL FRAMES BY RDL SUPPLY, WITH METAL FRAME VIEW PANEL AS SHOWN ON THE DRAWINGS. PREPARE FOR HARDWARE SPECIFIED IN SECTION 08700. PROVIDE TOP CAP FOR WEATHER PROTECTION.

2.03 SHOP PAINTING: CLEAN AND CHEMICALLY TREAT (PHOSPHATES) METAL SURFACES TO ASSURE MAXIMUM PAINT ADHERENCE; FOLLOW WITH A DIP OR SPRAY COAT OR RUST-INHIBITIVE METALLIC OXIDE, ZINC CHROMATE, OR SYNTHETIC RESIN PRIMER ON ALL EXPOSED SURFACES. FINISH SURFACES TO BE SMOOTH AND FREE FROM IRREGULARITIES AND ROUGH SPOTS. EACH COAT OF PAINT SHALL BE SEPARATELY BAKED OR OVEN DRIED.

**FLUSH WOOD DOORS  
SECTION 08250**

**PART ONE -- GENERAL**

1.01 SCOPE: PROVIDE SOLID FLUSH DOORS, COMPLETE IN PLACE WITH FINISH HARDWARE INSTALLED, WHERE SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.

**1.02 QUALITY ASSURANCE:**

A. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.

B. IN ADDITION TO COMPLY WITH PERTINENT CODES AND REQUIREMENTS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION, COMPLY WITH:

- 1. "MANUAL OF MILLWORK" OF THE WOODWORK INSTITUTE OF CALIFORNIA, FOR THE GRADE OR GRADES SPECIFIED; OR
- 2. "ARCHITECTURAL WOODWORK QUALITY STANDARDS" OF THE ARCHITECTURAL WOODWORK INSTITUTE FOR THE GRADE OR GRADES SPECIFIED.
- 3. CERTIFICATION AND STAMPS WILL NOT BE REQUIRED.

**1.03 DELIVERY, STORAGE AND HANDLING:**

**A. DELIVERY:**

- 1. DELIVER DOORS TO SITE BEFORE BUILDING HAS REACHED STAGE PREVAILING HUMIDITY OF ITS LOCALITY.
- 2. DELIVER DOORS IN MANUFACTURER'S ORIGINAL CONTAINERS CLEARLY MARKED WITH MANUFACTURER'S BRAND NAME, SIZE, THICKNESS, AND IDENTIFYING STAMP OR MARKING.
- 3. SEAL ALL FOUR EDGES OF THE UNFINISHED DOORS WHEN DELIVERED TO JOB SITE.

DO NOT DRAG DOORS ACROSS ONE ANOTHER; LIFT DOORS AND CARRY THEM INTO POSITION.

- 1. UNLOAD DOORS AT ON 2" UNCLER, LAID 12" FROM ENDS AND
- 2. UNLOAD BOTTOM DOORS AND OVER TOP OF STACK. PROVIDE PLYWOOD OR CLEAN BOARD OVER TOP OF STACK TO PROTECT DOOR SURFACES.
- 3. STORE DOORS IN AREA WHERE THERE WILL BE NO GREAT VARIATIONS IN HEAT, DRYNESS, AND HUMIDITY.

**PART TWO -- PRODUCTS**

**2.01 GENERAL:**

- A. PROVIDE SOLID FLUSH WOOD DOORS OF THE TYPES, DESIGNS, AND THICKNESSES SHOWN ON THE DRAWINGS, LABELED OR NON-LABELED AS INDICATED AND REQUIRED, AND IN SOLID CORE OR HOLLOW CORE SHOWN ON THE DRAWINGS. APPROVED MFG'S: HALEY BROTHERS, MARSHFIELD, VT INDUSTRIES, MOHAWK, CRAFTMASTER
- B. GRADE: EXCEPT AS MAY BE SHOWN OTHERWISE ON THE DRAWINGS, FABRICATE THE WORK OF THIS SECTION TO "CUSTOM GRADE" STANDARDS OF THE REFERENCED ORGANIZATIONS.
- C. FOR HOLLOW CORE DOORS, PROVIDE CORE CONSTRUCTION AS NEEDED TO ACCOMMODATE FINISH HARDWARE.
- D. SPECIES:

- 1. WHERE PAINT GRADE OR OPAQUE FINISH ARE CALLED FOR ON THE DRAWINGS, PROVIDE BIRCH OR MAPLE FACES FOR OPAQUE FINISH.
- 2. FOR ALL OTHER FLUSH WOOD DOORS, PROVIDE ROTARY CUT WHITE BIRCH FACES FOR TRANSPARENT FINISH.

**PART THREE -- EXECUTION**

3.01 SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL SATISFACTORY CONDITIONS ARE CORRECTED.

**3.02 INSTALLATION:**

**A. FITTING AND MATCHING:**

- 1. UNLESS DOORS ARE COMPLETELY FITTED AND MACHINED AT THE MILL, FIT THEM FOR WIDTH BY PLANING AND FIT THEM FOR HEIGHT BY SANDING.

- a. BOTTOM: 1/2" CLEARANCE MAXIMUM
- b. TOP: 1/8" CLEARANCE MINIMUM. LOCK EDGE AND HINGE EDGE: BEVEL 1/8" IN 2" MAXIMUM
- c. LOCK EDGE AND HINGE EDGE: BEVEL 1/8" IN 2" MAXIMUM

- 2. MACHINE DOORS FOR HARDWARE IN ACCORDANCE WITH RECOMMENDATIONS OF THE HARDWARE MANUFACTURERS, AS THOSE RECOMMENDATIONS HAVE BEEN APPROVED BY THE ARCHITECT.
- B. RECEIVE AND RETAIN CUSTODY OF FINISH HARDWARE FURNISHED FOR THE WORK OF THIS SECTION EXCEPT AS OTHERWISE DIRECTED BY THE ARCHITECT. INSTALL ALL SUCH FINISH HARDWARE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF ITS MANUFACTURER.
- C. REPLACE OR REHANG DOORS WHICH ARE HINGE BOUND AND DO NOT SWING OR OPERATE FREELY.

**ALUMINUM FRAMING (IF REQUIRED PER DRAWINGS)  
SECTION 08400**

**PART ONE -- GENERAL**

1.01 SCOPE: THE WORK OF THIS SECTION INCLUDES ALUMINUM STOREFRONT MATERIAL AND WINDOW ASSEMBLIES.

**PART TWO -- PRODUCTS**

2.01 WINDOW FRAMING: DESIGN IS BASED ON USE OF U.S. ALUMINUM SERIES 400 FRAMING, AS INDICATED ON THE DRAWINGS. FINISH SHALL BE MFG. STD. CLEAR ANODIZED, UNLESS NOTED OTHER. IN GENERAL, MATCH EXISTING STOREFRONT SYSTEM & FINISH. EQUAL BY KAWNEER

**2.02 ALUMINUM SPECIALTIES:**

- A. COLUMN COVERS AND AT SILLS OF WINDOWS, .040" ANODIZED ALUMINUM, FINISH TO MATCH FRAMING.
- B. DRIP STRIP AT WINDOW HEADS, .032" ANODIZED ALUMINUM, FINISH TO MATCH FRAMING.

2.03 CAULKING: USE ONLY HARD ALUMINUM ALLOY OR NON-MAGNETIC STAINLESS STEEL SCREWS AND BOLTS.

**2.04 FASTENERS: USE ONLY HARD ALUMINUM ALLOY OR NON-MAGNETIC STAINLESS STEEL SCREWS AND BOLTS.**

**PART THREE -- EXECUTION**

3.01 GENERAL: CAREFULLY ERECT ALL WORK PLUMB, TRUE, SQUARE IN OPENINGS AND SECURELY ANCHOR IN PLACE. PROTECT ALUMINUM SURFACES FROM CONTACT WITH STEEL OR MASONRY WITH TWO COATS OF ZINC CHROMATE PAINT.

3.02 FRAMING INSTALLATION: INSTALL WINDOW FRAMING AS INDICATED ON THE DRAWINGS. SET ON POLYSULFIDE CAULKING BEAD, AND SECURELY ATTACH TO WOOD SUB-FRAME.

**FINISH HARDWARE  
SECTION 08700**

**PART ONE -- GENERAL**

1.01 WORK INCLUDED: INSTALLATION OF FINISH HARDWARE IS COVERED UNDER SECTION 06200. FURNISH ALL FINISH HARDWARE AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK.

1.02 PRODUCT HANDLING: INDIVIDUALLY PACKAGE EACH UNIT OF FINISH HARDWARE COMPLETE WITH PROPER FASTENINGS AND APPURTENANCES, CLEARLY IDENTIFIED.

1.03 GUARANTEE: ANY HARDWARE, WHICH PROVES TO BE DEFECTIVE OR FAILS WITHIN A PERIOD OF ONE YEAR, SHALL BE REPLACED AT NO COST TO THE OWNER.

**PART TWO -- PRODUCTS**

2.01 GENERAL:

- A. FURNISH HARDWARE IN ACCORDANCE WITH HARDWARE SCHEDULE.
- B. FINISHES OF ALL HARDWARE SHALL MATCH THE FINISH OF THE SURFACES TO WHICH THEY ARE APPLIED.
- C. FURNISH NON-REMOVABLE PINS AT OUT SWINGING EXTERIOR DOORS.
- D. CLOSERS: SIZE THE CLOSERS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. FURNISH SET BOLTS FOR CLOSERS TO BE MOUNTED IN PARTITION BOARD MINERS FOR INTERIOR DOORS.
- E. DOOR SILENCERS: FURNISH THREE SILENCERS FOR EACH STEEL DOOR FRAME.
- F. HAND OF DOOR: THE DRAWING SHALL SHOW THE SWING OF EACH DOOR LEAF. FURNISH EACH ITEM WITH PROPER INSTALLATION AND OPERATION OF THE DOOR AS SHOWN.
- G. FASTENERS: FURNISH NECESSARY SCREWS, BOLTS, AND OTHER FASTENERS OF SUITABLE SIZE AND TYPE ACCORDING TO THE MATERIAL TO WHICH THE FASTENERS ARE APPLIED. ALL FASTENINGS SHALL HARMONIZE WITH THE HARDWARE AND FINISH.

2.02 KEYING: LOCK DOORS INDIVIDUALLY. FURNISH 2 KEYS PER LOCK.

2.03 HARDWARE SCHEDULE: SEE DOOR SCHEDULE ON THE DRAWINGS.

**DIVISION 9 -- FINISHES**

**GYPSON DRYWALL  
SECTION 09250**

**PART ONE -- GENERAL**

1.01 SCOPE: THIS SECTION INCLUDES MATERIALS, INSTALLATION AND FINISHING OF JOINTS FOR GYPSON DRYWALL WALLS AND CEILINGS.

1.02 MATERIAL HANDLING: DELIVER ALL MATERIALS IN ORIGINAL UNOPENED PACKAGES AND STORE IN AN ENCLOSED SHELTER PROVIDING PROTECTION FROM DAMAGE AND EXPOSURE TO THE ELEMENTS. REMOVE DAMAGED OR DETERIORATED MATERIALS FROM THE PREMISES.

1.03 JOB CONDITIONS: IN COLD WEATHER AND DURING GYPSON PANEL APPLICATION AND JOINT FINISHING, MAINTAIN TEMPERATURES WITHIN THE BUILDING WITHIN THE RANGE OF 50 F TO 70 F. PROVIDE ADEQUATE VENTILATION TO REMOVE EXCESS MOISTURE.

1.04 RELATED WORK: WOOD FRAMING IS INCLUDED IN SECTION 06100. STEEL STUD FRAMING IS INCLUDED IN SECTION 05400.

**PART TWO -- PRODUCTS**

2.01 GYPSON BOARD: TAPERED EDGE, THICKNESS AS INDICATED ON DRAWINGS, BY GOLD BOND OR EQUAL. USE REGULAR 5/8" FIRE SHIELD AND MOISTURE RESISTANT (MR) 5/8" BOARD SUBSTRATE FOR ALL WET WALL LOCATIONS. INSTALL 5/8" DUROCK CEMENT BOARD BY USG, AT DEMISING WALLS LOWER 12" - SEE PLAN DETAILS.

2.02 FASTENERS: FOR ATTACHMENT OF GYPSON BOARD PANELS TO WOOD FRAMING AND STEEL STUD FRAMING, USE BUGLE HEAD DRYWALL SCREWS EQUAL TO GOLD BOND, OF SPACING PER MANUFACTURER'S RECOMMENDATIONS.

**PART TWO -- PRODUCTS**

2.03 TRIM: GOLD BOND CASING BEAD NO. 100 OR EQUAL.

2.04 CORNER BEAD: GOLD BOND MULTI-FLEX TAPE BEAD OR EQUAL.

2.05 JOINT TREATMENT: GOLD BOND REINFORCING TAPE AND JOINT COMPOUND.

**PART THREE -- EXECUTION**

3.01 GYPSON PANEL ERECTION: APPLY GYPSON PANELS WITH LONG DIMENSION PERPENDICULAR TO FRAMING. POSITION ALL END JOINTS OVER FRAMING MEMBERS. USE MAXIMUM PRACTICAL LENGTHS TO MINIMIZE END JOINTS. FIT END JOINTS CLOSELY, BUT NOT FORCED TOGETHER. STAGGER JOINTS ON OPPOSITE SIDES OF PARTITION.

A. FINISH ALL FACE PANEL JOINTS AND INTERNAL ANGLES WITH JOINT TREATMENT INSTALLED ACCORDING TO MANUFACTURER'S DIRECTIONS. SPOT EXPOSED FASTENERS ON FACE LAYERS AND FINISH CORNER BEAD, CONTROL JOINTS AND TRIM AS REQUIRED, WITH AT LEAST THREE COATS OF JOINT COMPOUND FEATHERED OUT ONTO PANEL FACES AND SANDED SMOOTH.

B. REINFORCE ALL VERTICAL AND HORIZONTAL EXTERIOR CORNERS WITH CORNER BEAD FASTENED WITH 8/16" ROSIN COATED STAPLES 12" O.C. ON BOTH FLANGES ALONG ENTIRE LENGTH OF BEAD.

C. WHERE ASSEMBLY TERMINATES AGAINST DISSIMILAR MATERIAL OR AT DISCONTINUOUS EDGES (EXCEPT BEHIND CERAMIC TILE), APPLY TRIM OVER PANEL EDGE AND FASTEN WITH SCREWS 12" O.C.

D. POWER-DRIVE FASTENERS AT LEAST 3/8" FROM EDGE OR ENDS OF PANELS TO PROVIDE UNIFORM DIMPLE 1/32" DEEP.

**TILE  
SECTION 09300**

**PART ONE -- GENERAL**

1.01 SCOPE: THIS SECTION INCLUDES MATERIALS AND INSTALLATION OF FLOOR AND WALL TILES.

**1.02 QUALITY ASSURANCE:**

A. PROVIDE PRODUCTS OF THE FOLLOWING:

- 1. CERAMIC TILE: AS SPECIFIED ON THE DRAWINGS.
- 2. QUARRY TILE: AS SPECIFIED ON THE DRAWINGS.

B. TILE COUNCIL OF AMERICA STANDARD 137.1 IS THE BASIS FOR REQUIREMENTS.

1.03 PRODUCT HANDLING: DELIVER PACKAGED MATERIALS AND STORE IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS INTACT UNTIL TIME OF USE.

1.04 JOB CONDITIONS: MAINTAIN ENVIRONMENTAL CONDITIONS AND PROTECT WORK DURING AND AFTER INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**PART TWO -- PRODUCTS**

2.01 TILE PRODUCTS: AS SPECIFIED ON THE DRAWINGS.

2.02 GROUT: AS SPECIFIED ON THE DRAWINGS.

**PART THREE -- EXECUTION**

3.01 TILE INSTALLATION APPLICATIONS:

- A. COMPLY WITH APPLICABLE REQUIREMENTS OF THE FOLLOWING AMERICAN NATIONAL STANDARDS INSTITUTE STANDARDS.
- 1. A108.4 FOR TILE INSTALLED WITH ORGANIC ADHESIVE.
- 2. A108.5 FOR TILE INSTALLED WITH DRY-SET PORTLAND CEMENT MORTAR OR LATEX-PORTLAND CEMENT MORTAR.
- 3. A108.6 FOR TILE INSTALLED WITH EPOXY ADHESIVE.

B. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR MIXING AND INSTALLATION OF PROPRIETARY MATERIALS.

3.02 INSTALLATION:

- A. EXTEND TILE WORK INTO RECESSES AND UNDER OR BEHIND EQUIPMENT AND FIXTURES, TO FORM A COMPLETE COVERING WITHOUT INTERRUPTIONS.
- B. ACCURATELY FORM INTERSECTIONS AND RETURNED PERFORM CUTTING AND DRILLING OF TILE WITHOUT MARRING VISIBLE SURFACE. CAREFULLY GRIND CUT EDGES OF TILE AGAINST TRIM, FINISH OR SCHEDULED.
- C. INSTALL TILE USING THE FOLLOWING SETTING BEHIND, SHOWED OR SCHEDULED:

- 1. QUARRY TILE FLOOR: DRY-SET PORTLAND CEMENT MORTAR OR LATEX-PORTLAND CEMENT MORTAR OVER CONCRETE.
- 2. GLAZED WALL TILE: ORGANIC ADHESIVE OVER GYPSON BOARD.
- 3. QUARRY TILE FLOOR: SET IN COOLER/FRAMES WITH EPOXY ADHESIVE.

D. UNLESS OTHERWISE SHOWN, BY TILE IN GRID PATTERN, ALIGN JOINTS WITH ADJOINING TILE IN FLOOR, BASE, WALLS AND TRIM AREA SAME DIRECTION IN EACH CASE. ADJUST TO MINIMIZE TILE CUTTING. PROVIDE PROPER JOINT WIDTH UNLESS OTHERWISE SHOWN.

E. INSTALL CERAMIC JOINTS MINIMUM 16" - 0" O.C., IN EACH DIRECTION.

3.03 CLEANING AND PROTECTION:

- A. UPON COMPLETION OF PLACEMENT AND GROUTING, CLEAN ALL TILE SURFACES SO THEY ARE FREE OF FOREIGN MATTER.
- B. LEAVE FINISHED INSTALLATION CLEAN AND FREE OF CRACKED, CHIPPED, BROKEN, UN-BONDED, OR OTHERWISE DEFECTIVE TILE WORK.
- C. PROHIBIT FOOT AND WHEEL TRAFFIC FROM USING TILES FLOORS FOR AT LEAST THREE (3) DAYS AFTER GROUTING IS COMPLETED.
- D. COVER ALL TILE FLOORS WITH "KRAFT PAPER" IN ALL AREAS AND DO NOT REMOVE THE PAPER UNTIL FINAL CLEAN UP AT COMPLETION OF CONSTRUCTION.

**LAY-IN CEILING  
SECTION 09500**

**PART ONE -- GENERAL**

1.01 SCOPE: FURNISH LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THE INSTALLATION OF ALL LAY-IN CEILING MATERIALS AND SUSPENSION SYSTEMS.

1.02 SUBMITTALS: COMPLY WITH SECTION 10750. SUBMIT SAMPLES FOR APPROVAL.

1.03 JOB CONDITIONS: NO WORK IS TO BE STARTED UNTIL ALL EXTERIOR OPENINGS ARE CLOSED IN. ALL WET WORK SHALL BE COMPLETED AND DRIED BEFORE WORK IS STARTED.

**PART TWO -- MATERIALS**

2.01 CEILING PANELS: COLOR, TYPE, PATTERN, SIZE, ETC., AS SCHEDULED AND SHOWN ON THE DRAWINGS. EXPOSED GRID SUSPENSION SYSTEM, CHICAGO METALLIC NO. 200 SERIES SHARP GRID SYSTEM WITH WALL ANGLES, NO. 1400, 10-GLOSS WHITE BAKED ENAMEL PAINT FINISH. EQUAL BY ARMSTRONG, PRELUDE 15/16".

**PART THREE -- EXECUTION**

3.01 INSTALLATION: IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTION, SUSPEND MAIN TEES FROM STRUCTURE USING NO. 9 GAUGE WIRE HANGERS AT 48" CENTER. LOCK CROSS TEES IN PLACE AT EVERY INTERSECTION WITH MAIN RUNNERS, AND WALL ANGLES WITH ENDS OF TEES RESTING ON BOTTOM FLANGE. SECURE WALL ANGLES TO SUBSTRATE WITH SUITABLE FASTENERS AND ANCHORS. SUPPORT ALL LAY-IN UNITS ON ALL FOUR SIDES. PROVIDE EXTRA HANGERS IF REQUIRED. SUSPEND SURFACE MOUNTED FIXTURES FROM BUILDING STRUCTURE AND PULL TIGHTLY AGAINST CEILING. COORDINATE WITH THE ELECTRICAL CONTRACTOR REGARDING SUSPENSION OF ELECTRICAL CEILING FIXTURES FROM THE CEILING SUSPENSION.

3.02 CLEAN-UP: AT COMPLETION OF THE WORK, REMOVE ALL SCAFFOLDING, CONTAINERS AND OTHER RUBBISH FROM THIS PORTION OF THE WORK FROM THE SITE. LEAVE ALL TILE SUPPORTING MEMBERS FIRMLY AND SECURELY ANCHORED, FREE OF FINGER MARKS OR SMUDGES AND IN PERFECT CONDITION.

**DIVISION 10 -- SPECIALTIES**

**CORNER GUARDS (IF REQUIRED PER DRAWINGS)  
SECTION 10250**

**PART ONE -- GENERAL**

1.01 SCOPE: FURNISH LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THE INSTALLATION OF ALL RUBBER OR VINYL CORNER GUARDS.

1.02 SUBMITTALS: COMPLY WITH SECTION 10750. SUBMIT SAMPLES FOR APPROVAL.

**PART TWO -- MATERIALS**

**2.01 CORNER GUARDS:**

- A. APPROXIMATE SIZE SHALL BE 2" X 2" FULL HEIGHT. COLOR SHALL BE WHITE OR CLEAR TO MATCH ADJACENT WALL FINISHES. VERIFY COLOR WITH CONSTRUCTION MANAGER.
- B. PROVIDE RUBBER OR VINYL CORNER GUARDS BY ONE OF THE FOLLOWING MANUFACTURERS OR OWNER APPROVED SUBSTITUTIONS.

- 1. JOHNSONITE - MIDDLEFIELD, OHIO (216-543-8916)
- 2. ROPPE - FOSTORIA, OHIO (419-435-8946)
- 3. RO MUSSON RUBBER CO. - AKRON, OHIO (216-773-7651)
- 4. MERCER PRODUCTS COMPANY, INC. - ORLANDO, FLORIDA (407-578-2900)

C. PROVIDE STAINLESS STEEL CORNER GUARDS (IF REQUIRED PER DRAWINGS) BY ONE MANUFACTURER'S ALIKE AND AS FOLLOWS: PROVIDE APPROXIMATELY 2" X 2" BY FULL WALL HEIGHT STAINLESS STEEL CORNER GUARDS AT LOCATION S AS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING MANUFACTURERS OR OWNER APPROVED SUBSTITUTIONS:

- 1. K.J. MILLER CORPORATION, ELKHARD, IN (800-34-7584)
- 2. PAWLING CORPORATION, PAWLING, NY (914-855-1085)
- 3. AMERICAN FLOOR PRODUCTS CO., INC. ROCKVILLE, MD (800-342-8424)
- 4. MCKINNEY/PARKER DIVISION, SCRANTON, PA (717-348-7551) OR (415-282-7800)

**PART THREE -- EXECUTION**

3.01 GENERAL: INSTALL CORNER GUARDS WHERE NOTED ON THE DRAWINGS AND PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

**PEST CONTROL  
SECTION 10290**

**PART ONE -- GENERAL**

1.01 SCOPE: FURNISH LABOR, EQUIPMENT AND MATERIALS TO COMPLETE THE APPLICATION OF INSECTICIDE.

1.02 SUBMITTALS: COMPLY WITH SECTION 10750. SUBMIT SAMPLES FOR APPROVAL.

**PART TWO -- MATERIALS**

2.01 PEST CONTROL PRODUCT: PERMA-100 P1240 BORIC ACID-BASED INSECTICIDE BY WHITMIRE RESEARCH LABORATORIES INC., ST. LOUIS, MO (314-229-5713), OR OWNER APPROVED SUBSTITUTION.

**PART THREE -- EXECUTION**

3.01 GENERAL: APPLY AT THE RATE OF 150 SQUARE FEET PER OZ., AEROSOL CAN TO FLAT SIDES OF EXTERIOR WALL, SIDE OF EXTERIOR WALL SHEATHING TOP SIDE OF GYPSON BOARD CEILING MATERIAL AND ALL OTHER AREAS (IF ANY) INDICATED ON THE DRAWINGS. APPLY JUST BEHIND COVERING OR ENCLOSING. APPLY IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**PART ONE -- GENERAL**

1.01 SCOPE: FURNISH LABOR, EQUIPMENT AND MATERIALS TO COMPLETE THE INSTALLATION OF CEMENTOUS TILE BACKER BOARD.

1.02 SUBMITTALS: COMPLY WITH SECTION 10750. SUBMIT SAMPLES FOR APPROVAL.

**PART TWO -- MATERIALS**

2.01 CEMENTOUS TILE BACKER BOARD: DUROCK CEMENT BOARD - 5/8" THICK - UNITED STATES GYPSON COMPANY, P.O. BOX 806278, CHICAGO, IL 60680-4124.

**PART THREE -- EXECUTION**

3.01 GENERAL: APPLY IN LOCATIONS AS DIRECTED IN SECTIONS AND DETAILS. USE POSITIVE ATTACHMENT OF BUGLE HEAD DRYWALL SCREWS.

**EXTERIOR SIGNAGE  
SECTION 10430**

**PART ONE -- GENERAL**

1.01 SCOPE: FURNISH LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THE INSTALLATION OF ALL EXTERIOR SIGNAGE.

1.02 SUBMITTALS: COMPLY WITH SECTION 10750. SUBMIT SAMPLES FOR APPROVAL.