

SPECIFICATIONS

SECTION 01100 - SUMMARY OF WORK

A. THE WORK INDICATED IN THE DRAWINGS IS INTENDED TO DELINEATE THE SCOPE OF WORK REQUIRED TO CONSTRUCT A COMPLETE PROJECT. THE WORK COMPREHENDS ALL OF THE CONTRACT DOCUMENTS, INCLUDING THE CONTRACT DOCUMENTS INCLUDING BUT NOT LIMITED TO, THE COMPLETED CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS AND INCLUDES ALL LABOR NECESSARY TO PRODUCE SUCH CONSTRUCTION, AND ALL MATERIALS AND EQUIPMENT INCORPORATED OR TO BE INCORPORATED INTO THE CONSTRUCTION. THE CONTRACTOR SHALL ACKNOWLEDGE AND AGREE THAT THE CONTRACT DOCUMENTS ARE ADEQUATE AND SUFFICIENT TO PROVIDE FOR THE COMPLETION OF THE WORK, AND INCLUDE ALL WORK, WHETHER OR NOT SHOWN OR DESCRIBED, WHICH REASONABLY MAY BE INFERRED TO BE REQUIRED FOR THE COMPLETION OF THE WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND PROFESSIONAL STANDARDS.

B. THE OWNER'S PROJECT MANAGER SHALL BE THE OWNER'S REPRESENTATIVE FOR PURPOSES OF THE PROJECT AND AS SUCH, SHALL BE RESPONSIBLE FOR THE ISSUANCE OF INSTRUCTIONS OF THE OWNER OR ARCHITECT TO THE CONTRACTOR. THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS OF THE OWNER'S PROJECT MANAGER. THE OWNER'S PROJECT MANAGER WILL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER IT IS IN PREPARATION AND PROGRESS. THE CONTRACTOR SHALL PROVIDE FACILITIES FOR SUCH ACCESS.

C. THE CONTRACTOR SHALL SECURE AND PAY FOR THE GENERAL BUILDING PERMIT, CONSTRUCTION PERMIT, RACKING PERMIT, RACKING PERMIT AND/OR SEISMIC RACKING PERMIT, HEALTH PERMIT FOR THE PROJECT INCLUDING WORK FOR THE SUB-CONTRACTORS, SUB-SUBCONTRACTORS PERMIT FEES, IMPACT FEES, PLAN CHECK FEES AND ANY OTHER FEES CUSTOMARILY CHARGED FOR THE GENERAL BUILDING PERMIT.

1. THE CONTRACTOR WILL PAY FOR ALL GOVERNMENTAL FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK WHICH ARE CUSTOMARILY SECURED AFTER THE EXECUTION OF THE CONTRACT AND WHICH ARE LEGALLY REQUIRED AT THE TIME THE BIDS ARE RECEIVED.

2. THE CONTRACTOR WILL PAY FOR THE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

3. IN THE EVENT THE OWNER SECURES AND PAYS FOR THE GENERAL BUILDING PERMIT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REIMBURSEMENT OF THE OWNER FOR THE COST OF THE PERMIT OR OTHER FEES, AND IN NO EVENT SHALL SUCH FEES AND COSTS BE SUBJECT TO, OR INCLUDE, AN ADDITIONAL COST FOR THE CONTRACTOR.

D. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

E. REFER TO THE G.C. CONTRACT OR ISA AGREEMENT FOR THE INSURANCE COVERAGE REQUIREMENTS. THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN INSURANCE AS OUTLINED IN THE G.C. CONTRACT OR G.C. ISA AGREEMENT.

F. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ASSISTANTS WHO SHALL BE IN ATTENDANCE AT THE JOB SITE DURING THE PROGRESS OF THE WORK. THE SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR AND ALL COMMUNICATIONS CONCERNING THE WORK SHALL BE THROUGH HIM. THE OWNER SHALL BE GIVEN TO THE CONTRACTOR. IMPORTANT COMMUNICATIONS SHALL BE CONFIRMED IN WRITING. OTHER COMMUNICATIONS SHALL BE SO CONFIRMED ON WRITTEN REQUEST IN ORDER THAT THE OWNER RECEIVES THE RIGHT TO APPROVE THE APPOINTMENT BY THE CONTRACT SUPERVISOR AND PROJECT MANAGER FOR THE CONTRACT.

SECTION 03542 - SELF-LEVELING UNDERLAYMENT CONCRETE

A. PROVIDE A SELF-LEVELING, PORTLAND CEMENT-BASED UNDERLAYMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

B. THIS SYSTEM CONSISTS OF A PRIMER AND A MIX OF SELF-LEVELING CEMENTS AND BINDERS WHICH, WHEN MIXED WITH WATER, BECOMES A HIGHLY LIQUID CEMENT-BASED COMPOUND THAT SETS ITS OWN LEVEL AND PRODUCES A FLAT, SMOOTH SURFACE. INDUSTRY STANDARD F & S.

C. INSTALLATION OF THE CEMENT-BASED, SELF-LEVELING UNDERLAYMENT MUST BE BY AN APPROVED APPLICATOR USING MIXING EQUIPMENT AND TOOLS APPROVED BY THE MANUFACTURER.

D. THE CEMENT-BASED SELF-LEVELING UNDERLAYMENT SHALL BE ARDEX K-15 SELF-LEVELING UNDERLAYMENT CONCRETE, OR APPROVED EQUAL.

E. HONOR ALL EXPANSION AND ISOLATION JOINTS, FILL ALL NON-MOVING JOINTS WITH ARDEX FEATHER FINISH OR ARDEX XOP AS REQUIRED.

F. PRIOR TO THE INSTALLATION OF THE FINISH FLOORING, THE SURFACE OF THE UNDERLAYMENT SHOULD BE PROTECTED FROM ABUSE BY OTHER TRADES BY THE USE OF PLYWOOD, MASONITE OR OTHER SUITABLE PROTECTION COURSE.

SECTION 05120 - STRUCTURAL METALS

A. FINISH, FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIGS".

B. STRUCTURAL STEEL SHALL BE OF NEW-BUILT STOCK AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD SPECIFICATIONS FOR STEEL BEAMS AND CHANNELS, AND WHICH ARE NOTED ON THE DRAWINGS, ASTM A992, CURRENT SPECIFICATIONS.

C. REFER TO NOTES ON DRAWINGS FOR ADDITIONAL INFORMATION.

D. WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT "CODE FOR STRUCTURAL WELDING AND GAS CUTTING IN BUILDING CONSTRUCTION, PART A: FUNCTIONAL STEEL," ISSUED BY THE AMERICAN WELDING SOCIETY, USING QUALIFIED OPERATORS BY TESTS AS PRESCRIBED IN THE AMERICAN WELDING SOCIETY STANDARD QUALIFICATION PROCEDURE". ELECTRODES AND METHODS SHALL BE COMPATIBLE WITH THE STRESSES OF A 58.

E. CONTRACTOR WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION AGENCY TO INSPECT HIGH STRENGTH BOLTED CONNECTIONS AND WELDED CONNECTIONS AND TO PERFORM TESTS AND PREPARE TEST REPORTS. TESTING AGENCY SHALL ALLOW SPLITAGE OR MAGRATION ONTO ADJOINING SURFACES.

F. INSTALL AS PER MANUFACTURER'S PRINTED INSTRUCTIONS EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN OR SPECIFIED, AND EXCEPT WHERE MANUFACTURER'S TECHNICAL REPRESENTATIVE DIRECTS OTHERWISE.

G. ANY ADJACENT MATERIALS THAT HAVE BECOME SOILED DUE TO INSTALLATION OF THIS WORK SHALL BE THOROUGHLY CLEANED WITH A SUITABLE SOLVENT OF THE TYPE AS RECOMMENDED BY THE SEALANT COMPOUND MANUFACTURER.

SECTION 05400 - COLD FORMED METAL FRAMING

A. INCLUDE ALL MATERIALS LABOR, EQUIPMENT AND INCIDENTALS FOR THE COMPLETION OF WORK SHOWN, SPECIFIED, OR OTHERWISE REQUIRED.

B. MATERIALS ARE THOSE MANUFACTURED BY CLARK/DRETT BUILDING SYSTEMS, OR APPROVED EQUAL.

C. ALL INTERIOR PARTITIONS TO BE GALVANIZED STEEL STUDS WITH STEEL RUNNERS, SIZE, SPACING AND GAUGE AS INDICATED ON THE DRAWINGS, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. COMPLY WITH AISI 1000 AND 5000 SPECIFICATIONS AND STANDARDS.

1. AISI 5100 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

2. AISI 5200 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING-GENERAL PROVISIONS.

3. AISI 5201 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING-PRODUCT STANDARD.

4. AISI 5211 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING-WALL STUD DESIGN.

5. AISI 5212 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING-DOOR AND WINDOW FRAMES.

6. AISI 5213 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING-INTERNAL DESIGN.

7. AISI CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL STRUCTURAL FRAMING.

D. ALIGN FLOOR AND CEILING TRACK TO ASSURE PLUMB PARTITIONS, SECURE TRACKS WITH POWER DRIVEN FASTENERS AT SPACING NOT TO EXCEED 24" O.C. AND 2" FROM ENDS. PROVIDE SLIP TRACK AT THE TOP OF PARTITIONS AS REQUIRED TO ALLOW FOR VERTICAL DEFLECTION OF THE ROOF.

E. POSITION STUDS IN TRACKS AT SPACING SHOWN ON DRAWINGS. PROVIDE DOUBLE STUDS AT ALL DOOR JAMBS AND HEADS AND AT OTHER WALL OPENINGS. STUDS NEXT TO DOOR OPENINGS SHALL BE SECURELY ANCHORED TOGETHER.

SECTION 06100 - ROUGH CARPENTRY

A. ALL WOOD STUD FRAMEWORK, WOOD BLOCKING AND PLYWOOD CONSTRUCTION SHALL BE FIRE-RETARDANT TREATED AND SHALL COMPLY WITH AWPA SPECIFICATION C-200 FOR FIRE RESISTANCE INFORMATION. WITH FIRE-RETARDANT CHEMICALS TO ACHIEVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 WHEN TESTED IN ACCORDANCE WITH UL TEST 723, ASTM E84 OR NFPA TEST 355.

B. FRAMING LUMBER SHALL FOLLOW THE "AMERICAN SOFTWOOD LUMBER STANDARD" PS 20-15 BY THE U.S. DEPARTMENT OF COMMERCE, NOMINAL SIZES ARE SHOWN OR SPECIFIED; PROVIDE ACTUAL SIZES COMPLYING WITH THE MINIMUM SIZE REQUIREMENTS OF PS 20-15 FOR THE MOISTURE CONTENT SPECIFIED FOR EACH USE.

C. PROVIDE DRESSED LUMBER, S4S, UNLESS OTHERWISE SHOWN OR SPECIFIED.

D. PROVIDE SEASONED LUMBER WITH 19% MAXIMUM MOISTURE CONTENT AT TIME OF DELIVERY AND COMPLYING WITH DRY SIZE REQUIREMENTS OF PS 20-15, UNLESS OTHERWISE SPECIFIED.

E. PLYWOOD: FOR EACH USE, COMPLY WITH THE REQUIREMENTS FOR "SOFTWOOD PLYWOOD CONSTRUCTION AND INDUSTRIAL" PSI BY THE U.S. DEPARTMENT OF COMMERCE.

F. PLASTIC LAMINATE: PLASTIC LAMINATE SHALL BE OF THE THICKNESS INDICATED ON THE DRAWINGS, AND SHALL BE OF THE "HIGH-PRESSURE" TYPE. LAMINATE SHALL BE GENERAL-PURPOSE GRADE WITH AN "M" FINISH. IN COLORS AS INDICATED ON THE DRAWINGS OR AS SCHEDULED.

G. GYPSUM SHEATHING: EXTERIOR GRADE CONFORMING TO ASTM C79. THICKNESS INDICATED ON THE DRAWINGS, PROVIDE CORROSION-RESISTANT SELF-DRILLING AND SELF-TAPPING FASTENERS FOR ATTACHING SHEATHING TO METAL STUDS. FASTENERS SPACING AS INDICATED OR AS RECOMMENDED BY SHEATHING MANUFACTURER.

SECTION 06400 - INTERIOR ARCHITECTURAL WOODWORK

A. QUALITY STANDARD: AIA QUALITY STANDARD, "ARCHITECTURAL WOODWORK QUALITY STANDARDS" OF THE ARCHITECTURAL WOODWORK INSTITUTE FOR GRAPHS OF INTERIOR ARCHITECTURAL WOODWORK CONSTRUCTION, FINISH AND GRADES FOR GRAPHS.

B. SURFACE-BURNING CHARACTERISTICS: NOT EXCEED AS INDICATED BELOW:

TESTED PER ASTM E 84 FOR 30 MINUTES WITH A MINIMUM OF 35% CHARRED LENGTH.

1. FLAME SPREAD: 25
2. SMOKE DEVELOPED: 450

C. HARDWARE SHALL COMPLY WITH:

1. MEDIUM-DENSITY FIBERBOARD COMPLY WITH ANSI A900 AND NFPA 9.
2. FIBERBOARD COMPLY WITH ANSI A208.1.
3. FINISH: FINISH OR FINISHES TO BE USED AS INDICATED, OR IF NONE IS INDICATED, AS PER THE MANUFACTURER'S QUALITY STANDARD. REFER TO DRAWINGS FOR FINISH, MAKEUP, AND COLOR, ETC.
4. ADHESIVE FOR BONDING PLASTIC LAMINATE: CONTACT CEMENT, ALPHATIC RESIN, WATER-BASED, OR POLYURETHANE, MUST NOT EXCEED THE VOC CONTENT LIMITS ESTABLISHED IN SOURCE AIR QUALITY MANAGEMENT DISTRICT (SQAQMD) RULE # 1111.1 ARCHITECTURAL COATINGS, EFFECTIVE JANUARY 1, 2004.

SECTION 07200 - BUILDING INSULATION

A. THERMAL BATT INSULATION:

1. TYPE: UNFACED GLASS FIBER THERMAL INSULATION COMPLYING WITH ASTM C 665, TYPE 1 AND ASTM E 136.
2. SURFACE BURNING CHARACTERISTICS: a. MAXIMUM FLAME SPREAD: 10 (M-205) b. MAXIMUM SMOKE DEVELOPED: 10 (M-300) WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
3. CONDENSATION CHARACTERISTICS: PASSES ASTM E 136 TEST.
4. FIRE RESISTANCE RATINGS: PASSES ASTM E 119 TEST.
5. SOUND TRANSMISSION COEFFICIENT: 0.9.
6. DIMENSIONAL STABILITY: LINEAR SHRINKAGE LESS THAN 0.1%.

B. INTERIOR SOUND ATTENUATION (CONCEALED): PROVIDE 3-1/2" UNFACED GLASS FIBER BATTS FOR INTERIOR SOUND ATTENUATION PURPOSES AT WALLS, AT SUSPENDED CEILING AND OTHER LOCATIONS WHERE SHOWN OR SCHEDULED ON THE DRAWINGS. INSULATION SHALL BE EQUAL TO CERTAINTED CERTAIN ACQUA THERM BATT, RATED WITH SURFACE BURNING CHARACTERISTICS PER ASTM E84, INCLUDING MAXIMUM FLAME SPREAD INDEX 25; AND MAXIMUM SMOKE DEVELOPED INDEX 35.

C. INTERIOR SOUND ATTENUATION (EXPOSED): PROVIDE 3-1/2" PSK-FACED [WHITE] GLASS FIBER BATTS FOR INTERIOR SOUND ATTENUATION PURPOSES AT EXPOSED STRUCTURE AND OTHER LOCATIONS WHERE SHOWN OR SCHEDULED ON THE DRAWINGS. INSULATION SHALL BE EQUAL TO OWENS-CORNING FIBERGLASS RATED 35 PSK FIBERGLASS, WITH COLOR WHITE POLYPROPYLENE SCRAM-KRAFT FACING, BATTED WITH SURFACE BURNING CHARACTERISTICS PER ASTM E665, TYPE II, CLASS A; MAXIMUM FLAME SPREAD INDEX 25; AND MAXIMUM SMOKE DEVELOPED INDEX 50.

D. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR PARTICULAR CONDITIONS OF INSTALLATION IN EACH CASE.

E. THERMAL BATT INSULATION MAY BE FICTION FIT IN PLACE UNTIL THE INTERIOR FINISH IS BATTED. INSTALL BATTS TO FILL ENTIRE STUD CAVITY. IF STUD CAVITY IS LESS THAN 1 1/2 IN. HIGH, CUT LENGTHS TO FIT CAVITY WITH AGAINST FLOOR AND CEILING TRACKS. WALLS WITH PENETRATIONS REQUIRE THAT INSULATION BE CAREFULLY CUT TO FIT AROUND OUTLETS, JUNCTION BOXES AND OTHER IRREGULARITIES.

F. INSTALL STOREROFF SYSTEM PLUMBING, LEVEL AND TRUE TO LINE WITHOUT WARP OR RACK OF FRAMES WITH MANUFACTURER'S PRESCRIBED TOLERANCES AND INSTALLATION INSTRUCTIONS. PROVIDE SUPPORT AND ANCHOR IN PLACE.

G. WHERE INSULATION MUST EXTEND HIGHER THAN 8 FEET, TEMPORARY SUPPORT CAN BE PROVIDED TO HOLD PRODUCT IN PLACE UNTIL THE FINISH MATERIAL IS APPLIED, APPROVED EQUAL.

SECTION 07920 - JOINT SEALS

A. EXTERIOR: COMPOUND USED FOR EXTERIOR SEALINGS SHALL BE A TWO COMPONENT POLYURETHANE SEALANT TO MEET OR EXCEED THE PERFORMANCE OF FED. SPEC T15-02230.

1. MANUFACTURER: TREMCO INC. OF BEECHWOOD, OHIO, 1-800-321-7906, OR APPROVED EQUAL.
2. INTERIOR: COMPOUND USED FOR INTERIOR CAULKING TO BE ACRYLIC LATEX COMPLYING WITH EITHER ASTM C834 TYPE AS (REQUIRED FOR APPLICATION [GUN OR KNIFE], NON-SHINING, NON-BLEEDING, PAINABLE.
3. MANUFACTURER: TREMCO INC. OF BEECHWOOD, OHIO, 1-800-321-7906, OR APPROVED EQUAL.
4. JOINT BACKING SHALL BE NON-ABSORBENT, CLOSED CELL, FOAM POLYETHYLENE MATERIAL, SQUARE OR ROUND IN SHAPE, AND SHALL BE SIZED TO CAUSE A 30% COMPRESSION IN THE JOINT.
5. CLEAN JOINT SURFACES IMMEDIATELY BEFORE INSTALLATION OF SEALANTS OR SEALING COMPOUNDS. REMOVE DIRT, INSURE COATINGS, MOISTURE AND OTHER SUBSTRATES THAT COULD INTERFERE WITH SEAL OF GASKET OR BOND OF SEALANT OR CAULKING COMPOUND. EACH MASONRY JOINT SURFACES AS IDENTIFIED BY SEALER SHALL BE THOROUGHLY ROUGHEN VITREOUS SURFACES AS RECOMMENDED BY SEALANT MANUFACTURER.
6. PRIME OR SEAL JOINT SURFACES WHERE RECOMMENDED BY SEALANT MANUFACTURER. CONFINE PRIMER/SEALER TO AREAS OF SEALANT BOND, DO NOT ALLOW SPLASH OR MAGRATION ONTO ADJOINING SURFACES.
7. INSTALL AS PER MANUFACTURER'S PRINTED INSTRUCTIONS EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN OR SPECIFIED, AND EXCEPT WHERE MANUFACTURER'S TECHNICAL REPRESENTATIVE DIRECTS OTHERWISE.
8. ANY ADJACENT MATERIALS THAT HAVE BECOME SOILED DUE TO INSTALLATION OF THIS WORK SHALL BE THOROUGHLY CLEANED WITH A SUITABLE SOLVENT OF THE TYPE AS RECOMMENDED BY THE SEALANT COMPOUND MANUFACTURER.

SECTION 08110 - HOLLOW METAL DOORS AND FRAMES

A. ALL HOLLOW METAL DOORS AND FRAMES SHALL COMPLY WITH SPECIFICATIONS AND STANDARDS OF SDI 100-98, ANSI A208-1-199 AND ANSI A220-1-2000 STANDARD PROCEDURES FOR COMPONENT TESTING TO THE FLORIDA BUILDING CODE.

B. COLD ROLLED STEEL SHEETS, COMMERCIAL QUALITY, STRETCHER LEVEL FLATNESS, COLD-ROLLED STEEL, FREE FROM SCALE, PITTING OR OTHER SURFACE DEFECTS, COMPLYING WITH ASTM REQUIREMENTS.

C. GALVANNEALD STEEL SHEETS: ASTM A924, A60 ZINC COATING, USE GALVANNEALD STEEL SHEETS FOR EXTERIOR HOLLOW METAL DOORS, DOOR FRAMES AND DOOR JAMBS AND DOORS. INTERIOR FINISHING SHALL BE MANUFACTURED OF HOT ROLLED PLYLED AND COLD ROLLED STEEL.

D. MINIMUM GAUGES OF HOLLOW METAL ARE SPECIFIED BELOW, PROVIDE HEAVY GAUGE IF REQUIRED BY DETAILS OR SPECIFIC CONDITION. ENTIRE FRAME AND SIGHTLIGH SHALL BE OF SAME GAUGE.

1. DOORS: a. 16 GAUGE: GALVANIZED EXTERIOR DOORS. b. 18 GAUGE: INTERIOR DOORS (OR HEAVIER IF REQUIRED BY LABEL).
2. FRAMES: a. 16 GAUGE: GALVANIZED EXTERIOR DOOR FRAMES, WINDOW/WALL AND WINDOW FRAMES, TRANSOM AND SIGHTLIGH FRAMES. b. 16 GAUGE: LABELED FRAMES (OR HEAVIER IF REQUIRED BY LABEL). c. 16 GAUGE: INTERIOR DOOR FRAMES, AND GLAZED OPENING FRAMES.

E. COATING MATERIALS: PRIMER: USE MANUFACTURER'S STANDARD RUST INHIBITING PRIMER CONFORMING TO ANSI-A224-1-1990.

F. INSTALL HOLLOW METAL, IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. SECURELY FASTEN AND ANCHOR WORK IN PLACE WITHOUT TWISTS, WARPS, BULGES OR OTHER UNSATISFACTORY OR DEFACING WORKMANSHIP. SET HOLLOW METAL, PLUMB, LEVEL, SQUARE TO PROPER ELEVATIONS. TRUE TO LINE AND TRUE TO FACE. USE OTHER METHODS AND ANCHORS TO PROTECT THE WORK. ANCHORS AS APPROVED, UNITS AND TRIM SHALL BE FASTENED TIGHTLY TOGETHER WITH NEAT, UNIFORM AND TIGHT JOINTS.

SECTION 08330 - OVERHEAD CEILING DOORS

A. OPERATING RANGE: MAXIMUM AMOUNT OF TRAVEL ABOVE AND BELOW STOCK LEVEL.

B. WORKING RANGE: RECOMMENDED MAXIMUM TRAVEL ABOVE AND BELOW DOCK LEVEL FOR WHICH LOADING AND UNLOADING OPERATIONS ARE PERMITTED.

C. FIELD VERIFY DIMENSIONS REQUIRED TO INSURE THAT OPERATING EQUIPMENT PROPERLY CONFORMS TO THE ACTUAL DOOR SIZE.

D. STORE AND PROTECT EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND CONNECTIONS. PROTECT FROM WEAR, EXCESSIVE TEMPERATURES AND CORROSIVE OPERATIONS.

E. REMOVE EACH DOOR AND EACH PART AS A COMPLETE UNIT, INCLUDING FRAMES, CONNECTIONS, BRACKET GUIDES, CATCH, COUNTERBALANCE MECHANISMS, HARDWARE, AND OTHER PARTS AND INSTALLATION ACCESSORIES. TO SUIT OPENINGS AND HEAD ROOM AVAILABLE. OVERHEAD DOOR SHALL BE DURACOL STANDARD AS MANUFACTURED BY THE FOLLOWING SUPPLIER.

C. PERFORMANCE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

1. ANSI A156.3 SERIES, ANSI A220.13
2. NFPA 80 & NFPA 101.
3. UL 305.
4. UL108, UL10C.

D. FURNISH SPECIAL WRENCHES AND TOOLS APPLICABLE FOR EACH DIFFERENT AND FOR EACH SPECIAL HARDWARE COMPONENT.

E. FURNISH MAINTENANCE TOOLS AND ACCESSORIES SUPPLIED BY HARDWARE COMPONENT MANUFACTURER.

F. GENERAL HARDWARE REQUIREMENTS: WHERE NOT SPECIFICALLY INDICATED, COMPLY WITH APPLICABLE ANSI A156 STANDARD FOR TYPE OF HARDWARE REQUIRED. FURNISH EACH TYPE OF HARDWARE WITH ACCESSORIES AS REQUIRED FOR APPLICATIONS INDICATED AND FOR COMPLETE, FINISHED, OPERATIONAL DOORS.

E. HINGS: ANSI A156.1, FULL MORITSE TYPE, TEMPLATE TYPE, ANSI A156.7.

F. LOCK AND LATCHES: FURNISH LOCKSETS COMPATIBLE WITH SPECIFIED CYLINDERS, TYPICAL 2-3/4 INCH BACKSET. FURNISH STANDARD STRIKES WITH EXTENDED LIPS TO PROJECT FROM BEING MARKED BY LATCH BOLT. VERIFY TYPE OF CLOSURE PROVIDED IN METAL FRAMES.

G. EXIT DEVICES: ANSI A156.4, TRIM TYPE, WITH PUSH BAR, UNLESS OTHERWISE INDICATED. FURNISH STANDARD STRIKES WITH EXTENDED LIPS TO PROJECT FROM BEING MARKED BY LATCH BOLT. VERIFY TYPE OF CLOSURE PROVIDED IN METAL FRAMES, WITH DUST-PROOF FLOOR STRIKES.

H. CYLINDERS:

1. ALL CYLINDERS TO BE SMALL FORMAT INTERCHANGEABLE CORE PROVIDED BY THE OWNER.
2. KEYS: KEYS AS DIRECTED BY OWNER.
3. ALL LOCKING PRODUCTS TO BE SUPPLIED WITH BLACK CONSTRUCTION CORES FOR USE DURING CONSTRUCTION.
4. KEYS: NICKEL SILVER.
5. SUPPLY QUANTITY OF KEYS AS DIRECTED BY OWNER.

I. CLOSERS: ANSI A156.4 MODERN TYPE WITH COVER, SURFACE MOUNTED CLOSERS; FULL RACK AND PINION TYPE WITH STEEL SPRING AND NON-FREEZING HYDRAULIC FLUID; CLOSERS REQUIRED FOR FIRE RATED DOORS UNLESS OTHERWISE INDICATED.

J. PUSH/PULLS, MANUAL AND AUTOMATIC BOLTS, PROTECTION PLATES, GASKETS, THRESHOLDS, AND TRIM: FURNISH AS INDICATED IN SCHEDULE, WITH ACCESSORIES AS REQUIRED FOR COMPLETE OPERATIONAL DOOR INSTALLATIONS.

K. VERIFY DOORS AND FRAMES ARE READY TO RECEIVE DOOR HARDWARE AND HARDWARE ACCESSORIES AS INDICATED ON SHOP DRAWINGS.

L. VERIFY ELECTRIC POWER IS AVAILABLE TO POWER OPERATED DEVICES AND S O F CORRECT CHARACTERISTICS.

M. COORDINATE MOUNTING HEIGHTS WITH DOOR AND FRAME MANUFACTURERS. USE TEMPLATES PROVIDED BY HARDWARE ITEM MANUFACTURER.

N. ADJUST HARDWARE FOR SMOOTH OPERATION.

O. DO NOT PERMIT ADJACENT WORK TO DAMAGE HARDWARE OR HARDWARE FINISH.

SECTION 08410 - ALUMINUM ENTRANCES AND STOREROFF

A. SYSTEM PERFORMANCE REQUIREMENTS:

1. AIR INFILTRATION TEST SHALL MEET ASTM E 283, INFILTRATION RATE SHALL NOT EXCEED 0.6 CFM/FT AT STATIC DIFFERENTIAL OF 62.4 PSF.
2. WATER RESISTANCE TEST SHALL MEET ASTM E 331, THERE SHALL BE NO LEAKAGE AT A MINIMUM STATIC AIR PRESSURE DIFFERENTIAL OF 8.0 PSF AS DEFINED IN AAMA 501.
3. A UNIFORM STATIC AIR DESIGN LOAD OF 20 PSF SHALL BE APPLIED IN THE POSITIVE AND NEGATIVE DIRECTION ACCORDING TO ASTM E 330, THERE SHALL BE NO DEFLECTION IN EXCESS OF 1/175 OF THE SPAN OF ANY FRAMING MEMBER. AT A STRUCTURAL TEST LOAD EQUAL TO 1.5 TIMES THE SPECIFIED DESIGN LOAD, THERE SHALL BE NO GLASS BREAKAGE OR PERMANENT SET IN THE FRAMING MEMBER IN EXCESS OF 0.2% OF THEIR CLEAR HEIGHT.
4. THERMAL TRANSMITTANCE (U-VALUE) BASED ON ONE-INCH CLEAR INSULATING GLASS (0.25" 0.50" 0.25") WHEN TESTED TO AAMA SPECIFICATION 1303 SHALL NOT EXCEED: GLASS TO EXTERIOR: 0.61; GLASS TO CENTER: 0.61; GLASS TO INTERIOR: 0.56.
5. CONDENSATION RESISTANCE [CR] WHEN TESTED TO AAMA SPECIFICATION 1303 SHALL BE AT LEAST: GLASS TO EXTERIOR: 09; FRAME AND GLASS TO CENTER: 06; GLASS TO INTERIOR: 54; FRAME AND GLASS TO INTERIOR: 06.
6. DIMENSIONAL STABILITY: LINEAR SHRINKAGE LESS THAN 0.1%.

B. INSTALLER SHALL BE SPECIALIZED IN THE INSTALLATION OF ALUMINUM STOREROFF SYSTEMS AND ACCEPTABLE TO PRODUCT MANUFACTURER.

C. SHOP DRAWINGS: SUBMIT FIVE (5) COPIES OF THE SHOP DRAWINGS TO ARCHITECT WITH PERFORMANCE REQUIREMENTS INDICATED IN THE FOLLOWING CONDITIONS:

1. THICKNESSES OF FILM MATERIALS INDICATED ARE MINIMUMS AND ARE FOR DETAILING ONLY. CONFIRM MATERIAL THICKNESSES BY ANALYZING PROJECT LOADS AND INFERVE CONSTRUCTION.
2. WINDBORNE DEBRIS RESISTANCE: PROVIDE SPECIFIC WINDOW FILM GLAZING MATERIALS CAPABLE OF RESISTING IMPACT FROM WINDBORNE DEBRIS BASED ON THE PASSES / FAIL CRITERIA AND TESTING INFORMATION IN ASTM E 199A AS DETERMINED FROM TESTING GLAZING MATERIALS. FABRICATION, AND INSTALLATION; FAILURE OF SEALANTS OR GASKETS TO REMAIN WATER-TIGHT AND AIR-TIGHT; DETRIORATION OF GLAZING MATERIALS; OR OTHER DEFECTS IN CONSTRUCTION.
3. WINDOW FILM: PROVIDE WINDOW FILM MATERIALS CAPABLE OF COMPLYING WITH PERFORMANCE REQUIREMENTS INDICATED UNDER THE FOLLOWING CONDITIONS: a. THICKNESSES OF FILM MATERIALS INDICATED ARE MINIMUMS AND ARE FOR DETAILING ONLY. CONFIRM MATERIAL THICKNESSES BY ANALYZING PROJECT LOADS AND INFERVE CONSTRUCTION. b. WINDBORNE DEBRIS RESISTANCE: PROVIDE SPECIFIC WINDOW FILM GLAZING MATERIALS CAPABLE OF RESISTING IMPACT FROM WINDBORNE DEBRIS BASED ON THE PASSES / FAIL CRITERIA AND TESTING INFORMATION IN ASTM E 199A AS DETERMINED FROM TESTING GLAZING MATERIALS. FABRICATION, AND INSTALLATION; FAILURE OF SEALANTS OR GASKETS TO REMAIN WATER-TIGHT AND AIR-TIGHT; DETRIORATION OF GLAZING MATERIALS; OR OTHER DEFECTS IN CONSTRUCTION.

SECTION 08800 - GLAZING AND GLAZING

A. GLASS AND GLAZING: PROVIDE GLAZING SYSTEMS CAPABLE OF WITHSTANDING NORMAL THERMAL MOVEMENT AND WIND AND IMPACT LOADS (WHERE APPLICABLE) WITHOUT FAILURE. INCLUDING LOSS OR GLASS BREAKAGE ATTRIBUTABLE TO THE FOLLOWING CONDITIONS: FABRICATION, AND INSTALLATION; FAILURE OF SEALANTS OR GASKETS TO REMAIN WATER-TIGHT AND AIR-TIGHT; DETRIORATION OF GLAZING MATERIALS; OR OTHER DEFECTS IN CONSTRUCTION.

B. WINDOW FILM: PROVIDE WINDOW FILM MATERIALS CAPABLE OF COMPLYING WITH PERFORMANCE REQUIREMENTS INDICATED UNDER THE FOLLOWING CONDITIONS:

1. THICKNESSES OF FILM MATERIALS INDICATED ARE MINIMUMS AND ARE FOR DETAILING ONLY. CONFIRM MATERIAL THICKNESSES BY ANALYZING PROJECT LOADS AND INFERVE CONSTRUCTION.
2. WINDBORNE DEBRIS RESISTANCE: PROVIDE SPECIFIC WINDOW FILM GLAZING MATERIALS CAPABLE OF RESISTING IMPACT FROM WINDBORNE DEBRIS BASED ON THE PASSES / FAIL CRITERIA AND TESTING INFORMATION IN ASTM E 199A AS DETERMINED FROM TESTING GLAZING MATERIALS. FABRICATION, AND INSTALLATION; FAILURE OF SEALANTS OR GASKETS TO REMAIN WATER-TIGHT AND AIR-TIGHT; DETRIORATION OF GLAZING MATERIALS; OR OTHER DEFECTS IN CONSTRUCTION.

G. VERIFY THAT SUBSTRATE CONDITIONS INSTALLED UNDER OTHER SECTIONS ARE ACCEPTABLE FOR PRODUCT INSTALLATION ACCORDING TO MANUFACTURER'S INSTRUCTIONS. VERIFY THAT OPENINGS ARE SIZED TO RECEIVE STOREROFF SYSTEM AND SILL PLATE IS LEVEL ACCORDING TO MANUFACTURER'S ACCEPTABLE TOLERANCES.

H. VERIFY ACTUAL MEASUREMENTS/OPENINGS BY FIELD MEASUREMENTS BEFORE FABRICATION. SHOW RECORDED MEASUREMENTS ON SHOP DRAWINGS.

I. INSTALL STOREROFF SYSTEM PLUMB, LEVEL AND TRUE TO LINE WITHOUT WARP OR RACK OF FRAMES WITH MANUFACTURER'S PRESCRIBED TOLERANCES AND INSTALLATION INSTRUCTIONS. PROVIDE SUPPORT AND ANCHOR IN PLACE.

J. PROJECT INSTALLED PRODUCTS: FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION. PROTECT ALUMINUM STOREROFF SYSTEM FROM GRINDING AND POLISHING COMPOUNDS, LIME, ACID, CEMENT OR OTHER HARMFUL CONTAMINANTS.

SECTION 08841 - AUTOMATIC SLIDING DOOR SYSTEMS

A. GENERAL: PROVIDE DOORS THAT HAVE BEEN DESIGNED AND FABRICATED TO COMPLY WITH SPECIFIED PERFORMANCE REQUIREMENTS, AS DEMONSTRATED BY TESTING MANUFACTURER'S CORRESPONDING STANDARD SYSTEMS.

B. COMPLIANCE: 1. ANSI/BHMA A 156.10 AMERICAN NATIONAL STANDARD FOR POWER OPERATED PEDESTRIAN DOORS. 2. UL 325 LISTED.

C. MOTION AND PRESENCE DETECTION SYSTEM: USES PLANAR K-BAND MICROWAVE TECHNOLOGY TO DETECT MOTION AND FOCUSED ACTIVE INFRARED TECHNOLOGY TO DETECT PRESENCE IN A SINGLE ZONE.

D. OPERATING AND MAINTENANCE MANUALS: PROVIDE MANUFACTURER'S OPERATING AND MAINTENANCE MANUALS FOR EACH ITEM COMPRISING THE COMPLETE DOOR OPENING INSTALLATION IN QUANTITY AS REQUIRED IN DIVISION 01, CLOSURE SUBMITTALS. THE MANUALS TO INCLUDE THE NAME, ADDRESS, AND CONTACT INFORMATION OF THE MANUFACTURERS PROVIDING THE HARDWARE AND THEIR NEAREST SERVICE REPRESENTATIVE. THE FINAL COPIES DELIVERED AFTER COMPLETION OF THE INSTALLATION TEST TO INCLUDE SPARE PARTS LIST.

E. FIELD MEASUREMENTS: VERIFY ACTUAL DIMENSIONS OF OPENINGS TO RECEIVE AUTOMATIC ENTRANCES BY FIELD MEASUREMENTS BEFORE FABRICATION AND INDICATE ON SHOP DRAWINGS.

F. BESAM ENTRANCE SOLUTIONS: MODEL: BESAM UNISIDE ULTRAVIEW SLIDING AUTOMATIC DOORS.

1. ALUMINUM DOORS AND FRAMES WITH SIDELITES AND ACTIVE DOOR LEAVES.
2. OVERHEAD CONCEALED, ELECTRO-MECHANICAL, MICROPROCESSOR CONTROLLED, SLIDING DOOR OPERATOR.
3. GLASS: GLAZING SHALL COMPLY WITH ANSI Z97.1, THICKNESS AS INDICATED. a. GLAZING ABOVE DOOR PANES AND SIDELITE PANES: THICKNESS AND TYPE AS INDICATED. b. EXTERIOR ENTRANCE GLAZING: 7/16" BURGLAR RESISTANT GLASS. d. INTERIOR ENTRANCE GLAZING: 1/4" (6 MM) OVERALL THICKNESS TEMPERED GLASS LITE, UNLESS OTHERWISE SPECIFIED.

H. COMPLY WITH NAAMMS' MANUAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS FOR RECOMMENDATIONS FOR FINISHING AND DESIGNATING FINISHES. REFER TO DRAWINGS FOR SPECIFIED FINISH.

I. ENTRANCES: INSTALL AUTOMATIC ENTRANCES PLUMB AND TRUE IN ALIGNED WITH ESTABLISHED LINES AND GRADES WITHOUT RAMP OR RACK OF FRAMES. MEMBERS AND DOORS SHALL BE FINISHED TO MATCH ADJACENT SURFACES WITH FINISH AS SPECIFIED ON DRAWINGS.

1. ENTRANCES: INSTALL AUTOMATIC ENTRANCES USING CONCEALED FASTENERS TO GREATLY EXTENT POSSIBLE.
2. SET HEADERS, CARRIER ASSEMBLIES, BRACKETS, OPERATOR BRACKETS AND GUIDES LEVEL AND TRUE TO LOCATION WITH ANCHORAGE FOR PERMANENT SUPPORT.
3. GLAZING: GLAZE SLIDING AUTOMATIC ENTRANCE DOORS IN ACCORDANCE WITH THE GLASS ASSOCIATION OF AMERICA (GAA) GLAZING MANUAL, PUBLISHED INSTRUCTIONS OF AUTOMATIC ENTRANCE SYSTEM MANUFACTURER, AND PUBLISHED INSTRUCTIONS OF AUTOMATIC ENTRANCE SYSTEM MANUFACTURER.
4. ADJUST DOOR OPERATORS, CONTROLS, OVERHEAD HARDWARE AND SAFE OPERATION AND WEATHER TIGHTNESS TO MEET DOOR COMPLIANCE WITH ANSI/BHMA A 156.10.

SECTION 09100 - FINISH HARDWARE

A. AMERICAN NATIONAL STANDARDS INSTITUTE.

1. ANSI A208.1 SET OF 24 BHMA STANDARDS (A156 SERIES) WITH BINDER.
2. ANSI Z201.1 AND RATING OF SEVERE WINDSTORM RESISTANT CLOSURE OPENINGS AND ANCHORS FOR DOOR ASSEMBLIES.
3. FINISHER WITH IDENTIFYING TAGS TO OWNER BY SECURITY SHIPMENT DIRECT TO OWNER'S SUPPLIER.

C. PERFORMANCE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

1. ANSI A156.3 SERIES, ANSI A220.13
2. NFPA 80 & NFPA 101.
3. UL 305.
4. UL108, UL10C.

D. FURNISH SPECIAL WRENCHES AND TOOLS APPLICABLE FOR EACH DIFFERENT AND FOR EACH SPECIAL HARDWARE COMPONENT.

E. FURNISH MAINTENANCE TOOLS AND ACCESSORIES SUPPLIED BY HARDWARE COMPONENT MANUFACTURER.

F. GENERAL HARDWARE REQUIREMENTS: WHERE NOT SPECIFICALLY INDICATED, COMPLY WITH APPLICABLE ANSI A156 STANDARD FOR TYPE OF HARDWARE REQUIRED. FURNISH EACH TYPE OF HARDWARE WITH ACCESSORIES AS REQUIRED FOR APPLICATIONS INDICATED AND FOR COMPLETE, FINISHED, OPERATIONAL DOORS.

E. HINGS: ANSI A156.1, FULL MORITSE TYPE, TEMPLATE TYPE, ANSI A156.7.

F. LOCK AND LATCHES: FURNISH LOCKSETS COMPATIBLE WITH SPECIFIED CYLINDERS, TYPICAL 2-3/4 INCH BACKSET. FURNISH STANDARD STRIKES WITH EXTENDED LIPS TO PROJECT FROM BEING MARKED BY LATCH BOLT. VERIFY TYPE OF CLOSURE PROVIDED IN METAL FRAMES.

G. EXIT DEVICES: ANSI A156.4, TRIM TYPE, WITH PUSH BAR, UNLESS OTHERWISE INDICATED. FURNISH STANDARD STRIKES WITH EXTENDED LIPS TO PROJECT FROM BEING MARKED BY LATCH BOLT. VERIFY TYPE OF CLOSURE PROVIDED IN METAL FRAMES, WITH DUST-PROOF FLOOR STRIKES.

H. CYLINDERS:

1. ALL CYLINDERS TO BE SMALL FORMAT INTERCHANGEABLE CORE PROVIDED BY THE OWNER.
2. KEYS: KEYS AS DIRECTED BY OWNER.
3. ALL LOCKING PRODUCTS TO BE SUPPLIED WITH BLACK CONSTRUCTION CORES FOR USE DURING CONSTRUCTION.
4. KEYS: NICKEL SILVER.
5. SUPPLY QUANTITY OF KEYS AS DIRECTED BY OWNER.

I. CLOSERS: ANSI A156.4 MODERN TYPE WITH COVER, SURFACE MOUNTED CLOSERS; FULL RACK AND PINION TYPE WITH STEEL SPRING AND NON-FREEZING HYDRAULIC FLUID; CLOSERS REQUIRED FOR FIRE RATED DOORS UNLESS OTHERWISE INDICATED.

J. PUSH/PULLS, MANUAL AND AUTOMATIC BOLTS, PROTECTION PLATES, GASKETS, THRESHOLDS, AND TRIM: FURNISH AS INDICATED IN SCHEDULE, WITH ACCESSORIES AS REQUIRED FOR COMPLETE OPERATIONAL DOOR INSTALLATIONS.

K. VERIFY DOORS AND FRAMES ARE READY TO RECEIVE DOOR HARDWARE AND HARDWARE ACCESSORIES AS INDICATED ON SHOP DRAWINGS.

L. VERIFY ELECTRIC POWER IS AVAILABLE TO POWER OPERATED DEVICES AND S O F CORRECT CHARACTERISTICS.

M. COORDINATE MOUNTING HEIGHTS WITH DOOR AND FRAME MANUFACTURERS. USE TEMPLATES PROVIDED BY HARDWARE ITEM MANUFACTURER.

N. ADJUST HARDWARE FOR SMOOTH OPERATION.

O. DO NOT PERMIT ADJACENT WORK TO DAMAGE HARDWARE OR HARDWARE FINISH.

C. GLASS:

1. INSULATED GLASS: 1" INSULATED GLASS (GLASS ABOVE 7'-0")
2. IMPACT GLASS: 7/16" BURGLAR RESISTANCE GLASS (STOREROFF GLASS BELOW 7'-0")
3. TEMPERED GLASS: 1/4" TEMPERED GLASS (INTERIOR VESTIBULE GLASS)

4. FOR LOCATIONS WHERE HURRICANE RESISTANT STOREROFF SYSTEMS ARE REQUIRED, PROVIDE GLAZING AS INDICATED BY MANUFACTURER.

D. WINDOW FILMS:

1. SOLAR CONTROL WINDOW FILM: 3M SCOTCH TINT RESNEAR, WINDOW FILM. THERE MUST BE AN ABRASION RESISTANT COATING OVER THE FILM SURFACE FOR DURABILITY. TO BE USED WHEN THE FRONT FACIA HAS SOUTHERN OR WESTERN EXPOSURE.
2. FROSTED WINDOW FILM: 3M FASARA LUCE, WHEN COMBINED WITH OTHER WINDOW FILMS APPLY FROSTED WINDOW FILM LAST. REFER TO DRAWINGS FOR LOCATION.
3. SECURITY WINDOW FILM: 3M SCOTCHSHIELD ULTRA 400 CLEAR/CLAR, SECURITY WINDOW FILM SHALL BE SPECIALLY CLEAR 24 MICRO LAYERED WITH 3M ULTRA TEAR RESISTANT ADHESIVE. REFER TO DRAWINGS FOR LOCATION.

E. ALL GLASS SHALL BE ACCURATELY CUT TO FIT OPENINGS AND SET WITH EQUAL BEARING ON EITHER WIDTH OF PANE, AND SHALL BE INSTALLED IN ACCORDANCE WITH RECOMMENDED PROCEDURES OF THE GLASS GLAZING MANUAL.

F. BEFORE TURNING BUILDING OVER TO OFFICE DEPOSIT, ALL GLASS SHALL BE CLEANED AND POLISHED ON BOTH SIDES.

G. GLASS WITH WINDOW FILM SHALL BE CLEANED ACCORDING TO THE FILM MANUFACTURER'S INSTRUCTIONS WITH NON-ABRASIVE STANDARD CLEANERS AND BRUSHES. UPON COMPLETION, FILM MAY HAVE A DIAPHRAN APPEARANCE FROM RESIDUAL MOISTURE WHICH WILL DRY FLAT WITH NO MOISTURE DIMPLES UNDER REASONABLE WEATHER CONDITIONS, WITHIN 30 CALENDAR DAYS.

SECTION 09250 - GYPSUM WALL BOARD

A. GENERAL: MEET PERFORMANCE REQUIREMENTS, ESTABLISH AND MAINTAIN APPLICATION A FINISHING ENVIRONMENT IN ACCORDANCE WITH ASTM C 840.

B. MANUFACTURERS:

1. GYPSUM PRODUCTS BY TEMPLE-INLAND, DIBOLL TX (409-629-1220).
2. SHEETROCK PRODUCTS, BY USG, CHICAGO IL (508-200-3839; WWW.USG.COM).
3. GYPROC PRODUCTS, BY DOMAT GYPSUM PRODUCTS, WYOMING (800-366-8271).
4. G-P GYPSUM PRODUCTS, BY GEORGIA PACIFIC, ATLANTA, GA (404-652-4000).
5. GOLD BOND GYPSUM PRODUCTS BY NATIONAL GYPSUM COMPANY, CHARLOTTE NC (704-365-7300).

C. REGULAR GYPSUM BOARD: A GYPSUM CORE WALL PANEL, COMPLY WITH PAPER FRONT, BACK AND LONG EDGES AND SHORT EDGES AS SPECIFIED ON THE DRAWINGS.

D. FIRE-RATED GYPSUM BOARD: LONG EDGES AND SHORT EDGES AS SPECIFIED ON THE DRAWINGS. ENHANCED RESISTANCE TO FIRE: AN UNFACED WALL PANEL WITH PAPER FRONT, BACK AND LONG EDGES AND SHORT EDGES AS SPECIFIED ON THE DRAWINGS.

E. WATER-RESISTANT GYPSUM BOARD: GYPSUM CORE WALL PANEL WITH WATER RESISTANT PAPER ON FRONT, BACK AND LONG EDGES; AND COMPLYING WITH ASTM C 840.

F. INSTALL IN ACCORDANCE WITH THE FOLLOWING REFERENCE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS:

1. METAL FRAMING: ANSI A 208.1
2. GYPSUM SHEATHING: ASTM A 924
3. GYPSUM BOARD: JOINT TREATMENT: ASTM C 840.
4. CEMENT SAND AND JOINT TREATMENT: ASTM A 1018.1.

G. APPLY JOINT TREATMENT AT GYPSUM BOARD JOINTS (BOTH DIRECTIONS), FLANGES OF CORNER HEAD, EDGE TRIM AND CONTROL JOINTS PENETRATIONS, FASTENER SURFACE DEFECTS AND ELSEWHERE AS REQUIRED TO PREPARE WORK FOR COLOR.

FINISH INTERIOR GYPSUM WALLBOARD BY APPLYING THE FOLLOWING JOINT COMPOUNDS IN THREE (3) COATS (NOT INCLUDING PREPARE OF OPENINGS IN BASE) AND SAND BETWEEN COATS AND AFTER LAST COAT:

1. EMBEDDING AND FIRST COAT: READY-TO-DRY TYPE TAPPING COMPOUND.
2. FILL (SECOND) COAT: READY-TO-DRY TYPE TOPPING COMPOUND.
3. FINISH (THIRD) COAT: READY-TO-DRY TYPE TOPPING COMPOUND.

SECTION 09310 - CERAMIC TILE

A. TILE TO COMPLY WITH ANSI A137.1 FOR TYPES, COMPOSITIONS AND OTHER CHARACTERISTICS INDICATED. PROVIDE TILE IN THE LOCATIONS AND OF THE TYPES, COLORS AND PATTERNS INDICATED ON THE DRAWINGS AND SMALL OPENINGS.

B. ALL WALKWAY SURFACES SHALL BE SLIP RESISTANT AND COMPLY WITH THE STATIC COEFFICIENT OF FRICTION VALUES AS DETERMINED BY TESTING IN CONFORMANCE WITH ASTM C 1028.

C. SETTING MATERIALS:

1. CHEMICAL-RESISTANT, WATER CLEANABLE, TILE SETTING GROUTING EPOXY ANSI A183.
2. WATER CLEANABLE, TILE SETTING ADHESIVE ANSI A188.3
3. ORGANIC ADHESIVE: ANSI A136.1, THINSET BOND, TYPE 1.

D. INSTALL TILE AND GROUT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF ANSI A108.1 THROUGH A108.13, MANUFACTURER'S INSTRUCTIONS, AND TCA HANDBOOK RECOMMENDATIONS.

E. LAY TILE TO PATTERN INDICATED. ARRANGE PATTERN SO THAT A FULL TILE OR JOINT IS CENTERED ON EACH WALL AND NOT LESS THAN 1/8" WIDTH IS USED. DO NOT INTERRUPT PATTERN THROUGH OPENINGS.

F. PLACE TILE JOINTS UNIFORM IN WIDTH, SUBJECT TO VARIANCE IN TOLERANCE ALLOWED IN TILE SIZE. MAKE JOINTS WATER-TIGHT, WITHOUT VOIDS, CRACKS, EXCESS GROUT OR SETTING GROUT.

G. AT COMPLETION OF INSTALLATION, THOROUGHLY CLEAN ALL SURFACES. DO NOT PERMIT TRAFFIC OVER FINISHED FLOOR SURFACE FOR 72 HOURS AFTER INSTALLATION.

SECTION 09512 - ACOUSTICAL CEILING TILE

A. TO EXCEED PROPER WEIGHT AND ACOUSTICAL RATING, ALL ACOUSTICAL PANEL UNITS AND GRID COMPONENTS SHALL BE PRODUCED OR SUPPLIED BY A SINGLE MANUFACTURER. MATERIALS SUPPLIED BY MORE THAN ONE MANUFACTURER ARE NOT PERMISSIBLE.

B. PROVIDE ACOUSTICAL CEILING SYSTEM MATERIALS IN UNOPENED, CLEARLY MARKED CARTONS EQUIVALENT TO 1% TO 2% OF THE TOTAL QUANTITY OF INSTALLED ACOUSTICAL PANEL MATERIAL, AND 12 PICES EACH OF 4'-0" LONG TIES AND 2'-0" LONG TIES.

C. ACOUSTICAL CEILING MANUFACTURERS ARE ARMSTRONG WORLD INDUSTRIES AND USG CORPORATION.

D. SUSPENSION SYSTEM AND ACOUSTICAL CEILING