

SECTION 010000 - GENERAL REQUIREMENTS

- 1. GENERAL
1.1. CONTRACT DOCUMENTS AND SPECIFICATIONS CONFLICTS: SHOULD A CONFLICT OCCUR BETWEEN CIVIL, LANDSCAPE, ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND FIRE PROTECTION DOCUMENTS, NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCY TO RESOLVE CONFLICT.
1.2. CONTRACT DOCUMENT SCORE OMISSION-PROJECT BID PHASE: PROJECT BIDDING IS AT OWNER'S DISCRETION AND IS BY INVITATION ONLY. CONTRACTORS INVITED TO BID ON PROJECTS SHALL PROVIDE A COMPLETE SET OF CONTRACT DOCUMENTS AND SPECIFICATIONS TO THEIR SUBCONTRACTORS FOR THEIR BIDDING PURPOSE. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COMPLETE THE PROJECT SCORE. IF ITEMS HAVE BEEN OMITTED FROM WHAT IS INDICATED ON THE CONTRACT DOCUMENTS.
2. PRODUCTS (NOTE USED)
3. EXECUTION (NOTE USED)

END OF SECTION 010000

SECTION 012500 - SUBSTITUTION PROCEDURES

- 1. GENERAL
1.1. SUBSTITUTION PROCEDURES
1.1.1. SUBSTITUTIONS INCLUDE CHANGES IN PRODUCTS, MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION FROM THOSE REQUIRED BY THE CONTRACT DOCUMENTS AND PROPOSED BY CONTRACTOR.
1.2. SUBSTITUTION REQUESTS
1.2.1. SUBMIT EACH REQUEST FOR CONSIDERATION. IDENTIFY PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED. INCLUDE SPECIFICATION SECTION NUMBER AND TITLE AND DRAWING NUMBERS AND TITLES.
1.3. SUBMIT REQUESTS WITHIN 14 DAYS AFTER THE NOTICE OF AWARD. IDENTIFY PRODUCT TO BE REPLACED AND SHOW COMPLIANCE WITH REQUIREMENTS FOR SUBSTITUTIONS. INCLUDE A DETAILED COMPARISON OF SIGNIFICANT QUALITIES OF PROPOSED SUBSTITUTION WITH THOSE OF THE WORK SPECIFIED. A LIST OF CHANGES NEEDED TO OTHER PARTS OF THE WORK REQUIRED TO ACCOMMODATE PROPOSED SUBSTITUTION, AND ANY PROPOSED CHANGES IN THE CONTRACT SUM OR THE CONTRACT TIME SHOULD THE SUBSTITUTION BE ACCEPTED.
1.4. ARCHITECT WILL REVIEW PROPOSED SUBSTITUTIONS AND NOTIFY CONTRACTOR OF THEIR ACCEPTANCE OR REJECTION. IF NECESSARY, ARCHITECT WILL REQUEST ADDITIONAL INFORMATION FOR DOCUMENTATION FOR EVALUATION. ARCHITECT WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTION WITHIN 14 DAYS OF RECEIPT OF REQUEST.
1.5. DO NOT SUBMIT UNAPPROVED SUBSTITUTIONS ON SHOP DRAWINGS OR OTHER SUBMITTALS.

END OF SECTION 012500

SECTION 013300 - SUBMITTAL PROCEDURES

- 1. GENERAL
1.1. ACTION SUBMITTALS: WRITTEN AND GRAPHIC INFORMATION AND PHYSICAL SAMPLES THAT REQUIRE ARCHITECT'S RESPONSIVE ACTION.
1.2. INFORMATION SUBMITTALS: WRITTEN AND GRAPHIC INFORMATION AND PHYSICAL SAMPLES THAT DO NOT REQUIRE ARCHITECT'S RESPONSIVE ACTION. SUBMITTALS MAY BE REJECTED FOR NOT COMPLYING WITH REQUIREMENTS.
1.3. COORDINATE PREPARATION AND PROCESSING OF SUBMITTALS WITH PERFORMANCE OF CONSTRUCTION ACTIVITY.
1.3.1. ARCHITECT RESERVES THE RIGHT TO WITHHOLD ACTION ON A SUBMITTAL REQUIRING COORDINATION WITH OTHER SUBMITTALS UNTIL RELATED SUBMITTALS ARE RECEIVED.
1.4. ALLOW TWO SUBMITTAL REVIEW, INCLUDING TIME FOR RE-SUBMITTALS, AS FOLLOWS:
1.4.1. COMMENCEMENT: TIME FOR REVIEW SHALL COMMENCE ON ARCHITECT'S RECEIPT OF SUBMITTAL.
1.4.2. INITIAL REVIEW: ALLOW (10) BUSINESS DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL.
1.4.3. RE-SUBMITTAL REVIEW: ALLOW (10) BUSINESS DAYS FOR EACH SUBMITTAL.
1.4.4. CURRENT CONSULTANT REVIEW: WHERE SUBMITTALS MAY BE TRANSFERRED TO ARCHITECT'S CONSULTANT FOR REVIEW, ALLOW (15) BUSINESS DAYS FOR EACH SUBMITTAL.
2. PRODUCTS
2.1. SUBMITTAL PROCEDURES
2.1.1. ELECTRONIC: SUBMIT ELECTRONIC SUBMITTALS VIA EMAIL AS "PDF" ELECTRONIC FILES.
2.1.2. CERTIFICATES AND CERTIFICATION SUBMITTALS: PROVIDE A STATEMENT THAT INCLUDES SIGNATURE OF ENTITY RESPONSIBLE FOR PREPARING CERTIFICATION.
2.2. PRODUCT DATA: COLLECT INFORMATION INTO A SINGLE SUBMITTAL FOR EACH ELEMENT OF CONSTRUCTION AND TYPE OF PRODUCT OR EQUIPMENT.
2.3. SHOP DRAWINGS: PREPARE PROJECT SPECIFIC INFORMATION. DRAWN ACCURATELY TO SCALE. SHOP DRAWINGS SHALL NOT BE BASED ON REDUCTIONS OF THE CONTRACT DOCUMENTS OR STANDARD PRINTED DATA.
2.4. SAMPLES: SUBMIT SAMPLES FOR REVIEW OF KIND, COLOR, PATTERN, AND TEXTURE, FOR A REVIEW OF CHARACTERISTICS WITH OTHER ELEMENTS IN ORDER FOR COMPARISON BETWEEN SUBMITTAL AND ACTUAL COMPONENT TO BE INSTALLED.
2.4.1. SUBMIT MANUFACTURERS' COLOR CHARTS CONSISTING OF UNITS OR SECTIONS OF UNITS SHOWING THE FULL RANGE OF COLORS, TEXTURES, AND PATTERNS AVAILABLE.
2.4.2. SUBMIT (1) FULL SET OF SAMPLES. ARCHITECT WILL SUBMIT SAMPLE SELECTION VIA TRANSMITTAL LETTER AND RETAIN SAMPLES FOR RECORD.
3. EXECUTION
3.1. REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
3.2. STAMP EACH SUBMITTAL CERTIFYING THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
3.3. ARCHITECT WILL REVIEW EACH SUBMITTAL, MAKE MARKS TO INDICATE CORRECTIONS OR REVISIONS REQUIRED AND RETURN IT. ARCHITECT WILL STAMP EACH SUBMITTAL WITH AN ACTION STAMP AND WILL MARK STAMP APPROPRIATELY TO INDICATE ACTION.

END OF SECTION 013300

SECTION 016000 - PRODUCT REQUIREMENTS

- 1. GENERAL
1.1. THE TERM "PRODUCT" INCLUDES THE TERMS "MATERIAL," "EQUIPMENT," "SYSTEM," AND TERMS OF SIMILAR NATURE.
1.2. COMPARABLE PRODUCT REQUESTS
1.2.1. SUBMIT REQUEST FOR CONSIDERATION OF EACH COMPARABLE PRODUCT. IDENTIFY PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED. SHOW COMPLIANCE WITH REQUIREMENTS FOR COMPARABLE PRODUCT REQUESTS. ARCHITECT WILL REVIEW THE PROPOSED PRODUCT AND NOTIFY CONTRACTOR OF ITS ACCEPTANCE OR REJECTION.
1.3. BASIS-OF-DESIGN PRODUCT SPECIFICATION SUBMITTAL
1.3.1. SHOW COMPLIANCE WITH REQUIREMENTS.
1.4. COMPATIBILITY OF OPTIONS
IF CONTRACTOR IS GIVEN OPTION OF SELECTING BETWEEN TWO OR MORE PRODUCTS, SELECT PRODUCT COMPATIBLE WITH PRODUCTS PREVIOUSLY SET OR FULLY DEVELOPED. AND INCLUDE PRODUCTS USING MEANS AND METHODS TO PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT, TO THE PRODUCT WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
1.5. SCHEDULE DELIVERY TO MINIMIZE LONG-TERM STORAGE AT PROJECT SITE AND PREVENT OVERCROWDING OF CONSTRUCTION SPACE.
1.6. DELIVER PRODUCTS TO PROJECT SITE IN MANUFACTURER'S ORIGINAL SEALED CONTAINER OR PACKAGING, COMPLETE WITH LABELS AND INSTRUCTIONS FOR HANDLING, STORING, UNPACKING, PROTECTING, AND INSTALLING.
1.7. INSPECT PRODUCTS ON DELIVERY TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS AND TO ENSURE THAT PRODUCTS ARE HANDLED AND PROPERLY PROTECTED.
1.8. STORE PRODUCTS IN A MANNER THAT WILL NOT ENDANGER PROJECT STRUCTURE, STORE PRODUCTS UNDER COVER TO DRAIN WATER AWAY FROM PRODUCTS. PROVIDE WEATHER-TIGHT ENCLOSURE ABOVE GOODS TO PREVENT VENTILATION ADEQUATE TO PREVENT CONDENSATION.
1.9. PRESENTIES SPECIFIED IN OTHER DOCUMENTS SHALL BE IN ADDITION TO, AND RUN CONCURRENT WITH, OTHER WARRANTIES REQUIRED BY THE CONTRACT DOCUMENTS. MANUFACTURERS' WARRANTIES AND LIMITATIONS ON PRODUCT WARRANTIES DO NOT RELIEVE CONTRACTOR OF OBLIGATIONS UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. PRODUCTS
2.1. PRODUCT SUBSTITUTION PROCEDURES
PROVIDE PRODUCTS THAT COMPLY WITH THE CONTRACT DOCUMENTS, ARE UNDAMAGED, AND, UNLESS OTHERWISE INDICATED, ARE NEW AT THE TIME OF INSTALLATION.
2.2. PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH, AND OTHER DEVICES AND COMPONENTS NEEDED FOR A COMPLETE INSTALLATION AND THE INTENDED USE

- AND EFFECT.
2.3. WHERE PRODUCTS ARE ACCOMPANIED BY THE TERM "AS SELECTED," ARCHITECT WILL MAKE SELECTION.
2.4. DESCRIPTIVE, PERFORMANCE, AND REFERENCE STANDARD REQUIREMENTS IN THE SPECIFICATIONS ESTABLISH SALIENT CHARACTERISTICS OF PRODUCTS.
2.5. WHERE THE FOLLOWING HEADINGS ARE USED TO LIST PRODUCTS OR MANUFACTURERS, THE CONTRACTOR'S OPTIONS FOR PRODUCT SELECTION ARE AS FOLLOWS:
2.5.1. PRODUCTS:
2.5.1.1. WHERE REQUIREMENTS INCLUDE "ONE OF THE FOLLOWING," PROVIDE ONE OF THE PRODUCTS LISTED THAT COMPLIES WITH REQUIREMENTS.
2.5.1.2. WHERE REQUIREMENTS DO NOT INCLUDE "ONE OF THE FOLLOWING," PROVIDE ONE OF THE PRODUCTS LISTED THAT COMPLIES WITH REQUIREMENTS OR A COMPARABLE PRODUCT.
2.5.2. MANUFACTURERS:
2.5.2.1. WHERE REQUIREMENTS INCLUDE "ONE OF THE FOLLOWING," PROVIDE A PRODUCT THAT COMPLIES WITH REQUIREMENTS BY ONE OF THE LISTED MANUFACTURERS.
2.5.2.2. WHERE REQUIREMENTS DO NOT INCLUDE "ONE OF THE FOLLOWING," PROVIDE A PRODUCT THAT COMPLIES WITH REQUIREMENTS BY ONE OF THE LISTED MANUFACTURERS OR ANOTHER MANUFACTURER.
2.5.3. BASIS-OF-DESIGN PRODUCT:
2.5.3.1. PROVIDE THE PRODUCT NAMED, OR INDICATED ON THE DRAWINGS, OR A COMPARABLE PRODUCT BY ONE OF THE LISTED MANUFACTURERS.
2.5.3.2. WHERE SPECIFICATIONS REQUIRE "MATCH ARCHITECT'S SAMPLE," PROVIDE A PRODUCT THAT COMPLIES WITH REQUIREMENTS AND MATCHES ARCHITECT'S SAMPLE. ARCHITECT'S DECISION WILL BE FINAL ON WHETHER A PROPOSED PRODUCT MATCHES.
2.5.3.3. WHERE SPECIFICATIONS INCLUDE THE PHRASE "AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE" OR SIMILAR PHRASE, SELECT A PRODUCT THAT COMPLIES WITH REQUIREMENTS. ARCHITECT WILL SELECT COLOR, GLOSS, FATTERN, DENSITY, OR TEXTURE FROM MANUFACTURER'S PRODUCT LINE THAT INCLUDES BOTH STANDARD AND PREMIUM ITEMS.
2.5.4. COMPARABLE PRODUCTS
2.5.4.1. ARCHITECT WILL CONSIDER CONTRACTOR'S REQUEST FOR COMPARABLE PRODUCT WHEN THE FOLLOWING CONDITIONS ARE SATISFIED:
2.5.4.1.1. EVIDENCE THAT THE PROPOSED PRODUCT DOES NOT REQUIRE REVISIONS TO THE CONTRACT DOCUMENTS, THAT IT IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND WILL PRODUCE THE INDICATED RESULTS, AND THAT IT IS COMPATIBLE WITH OTHER PORTIONS OF THE WORK.
2.5.4.1.2. DETAILED COMPARISON OF SIGNIFICANT QUALITIES OF PROPOSED PRODUCT WITH THOSE NAMED IN THE SPECIFICATIONS.
2.5.4.1.3. LIST OF SIMILAR INSTALLATIONS FOR COMPLETED PROJECTS, IF REQUESTED.
2.5.4.1.4. SAMPLES, IF REQUESTED.

SECTION 042000 - UNIT MASONRY

- 1. GENERAL
1.1. SUBMITTALS:
1.1.1. SAMPLES FOR CONCRETE MASONRY UNITS, FACE BRICK, AND COLORED MORTAR.
1.2. MATERIAL CERTIFICATES:
1.2.1. FOR EACH TYPE OF PRODUCT INDICATED, INCLUDE STATEMENTS OF MATERIAL PROPERTIES INDICATING COMPLIANCE WITH REQUIREMENTS.
2. PRODUCTS
2.1. PERFORMANCE: COMPLY WITH TMS 602/ACI 530.1/ASCE 6.
2.2. CONCRETE MASONRY UNITS: COMPLY WITH ASTM C 90.
2.3. SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASH, CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS.
2.4. SQUARE-EDGED UNITS FOR OUTSIDE CORNERS UNLESS OTHERWISE INDICATED.
2.5. CONCRETE FACING BRICK
2.5.1. COMPLY WITH ASTM C 1634.
2.5.2. FINISH: EXPOSED FACES WITH FINISH SHOWN ON DRAWINGS.
2.7. CONCRETE LINTELS
2.7.1. COMPLY WITH ASTM C 1623.
2.7.2. PRECAST UNITS MATCHING CONCRETE MASONRY UNITS AND WITH REINFORCING BARS INDICATED OR REQUIRED TO SUPPORT LOADS INDICATED.
2.8. CLAY FACE BRICK
2.8.1. MANUFACTURER AND COLOR SHOWN ON DRAWINGS.
2.8.2. SIZE: INDICATED ON DRAWINGS.
2.8.3. SOLID BRICK WITH EXPOSED SURFACES FINISHED FOR ENDS OF SILLS AND CAPS.
2.8.4. SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASH AND OTHER SPECIAL CONDITIONS. WOOD RESULT IN SAWED SURFACES BEING EXPOSED TO VIEW.
2.9. MORTAR AND GROUT
2.9.1. MORTAR: ASTM C 270, PROPORTION SPECIFICATION, DO NOT USE CALCIUM CHLORIDE IN MORTAR.
2.9.2. FOR MASONRY BELOW GRADE: COMPLY WITH PART 1 WITH EARTH, USE TYPE M.
2.9.3. FOR REINFORCED MASONRY: SEE STRUCTURAL DRAWINGS.
2.9.4. FOR EXTERIOR, ABOVE-GRADE, LOAD-BEARING AND NONLOAD-BEARING WALLS AND PARAPET WALLS: FOR INTERIOR LOAD-BEARING WALLS: FOR INTERIOR NONLOAD-BEARING PARTITIONS, AND FOR OTHER APPLICATIONS WHERE ANOTHER TYPE IS NOT INDICATED, USE TYPE N.
2.9.5. COLORED MORTAR: FOR FACE BRICK, USE COLORED CEMENT OR CEMENT-LIME MIX OF COLOR SELECTED.
2.9.6. GROUT: ASTM C 474 WITH A SLUMP OF 8 TO 11 INCHES (20 TO 280 MM).
2.9.7. REFRACTORY MORTAR: GROUND FIRECLAY MORTAR OR OTHER REFRACTORY MORTAR THAT PASSES ASTM C 199 TEST AND IS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
2.10. REINFORCEMENT TIES AND ANCHORS
2.10.1. STEEL REINFORCING BARS: ASTM A 615/A 615M OR ASTM A 996/A 996M, GRADE 60 (GRADE 420).
2.10.2. JOINT REINFORCEMENT: ASTM A 951/A 951M.
2.10.3. COATING: HOT-DIP GALVANIZED AT BOTH INTERIOR AND EXTERIOR WALLS.
2.10.4. WIRE SIZE: SEE STRUCTURAL DRAWINGS.
2.10.5. FOR SINGLE-WYTHE MASONRY, PROVIDE EARTH-BOUND PROTECTION OR TRUSS DESIGN.
2.10.6. FOR MULTIWYTHE MASONRY, SEE STRUCTURAL DRAWINGS.
2.10.7. VENER ANCHORS: HOT-DIP GALVANIZED STEEL TWO-PIECE ADJUSTABLE MASONRY VENER ANCHORS THAT ALLOW THERMAL MOVEMENT PERPENDICULAR TO PLANE OF CONTACT AND THAT ALLOW THERMAL MOVEMENT PARALLEL TO PLANE OF CONTACT. ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
2.11. EMBEDDED FLASHING MATERIALS
2.11.1. SOLID METAL FLASHING: UNLESS STEEL, 0.0156 INCH (0.4 MM) THICK. RUBBERIZED ASPHALT SHEET FLASHING: PLIABLE, ADHESIVE RUBBERIZED-ASPHALT COMPOUND, BONDING TO POLYETHYLENE FILM TO PRODUCE AN OVERALL THICKNESS OF 0.0312 INCH (1.02 MM). USE ONLY WHERE FLASHING IS FULLY CONCEALED.
2.11.2. MISCELLANEOUS MASONRY ACCESSORIES
2.12. COMPRESSIBLE FILLER: PREMOULDED STRIPS COMPLYING WITH ASTM D 1056, GRADE 2A1.
PREFORMED CONTROL-JOINT GASKETS: DESIGNED TO FIT STANDARD SASH BLOCK AND TO MAINTAIN LATERAL STABILITY IN MASONRY WALL: MADE FROM STYRENE-BUTADIENE RUBBER OR PVC.
WEEP HOLES: ROUND POLYETHYLENE TUBING, 3/8-INCH (9.5-MM) OD. CAVITY DRAINAGE MATERIAL: FREE-DRAINING POLYMER MESH. FULL DEPTH OF CAVITY WITH DOVETAIL-SHAPED NOTCHES THAT PREVENT MORTAR CLOGGING.
PROPRIETARY ACIDIC MASONRY CLEANER: PRODUCT EXPRESSLY APPROVED FOR INTENDED USE BY CLEANER MANUFACTURER AND MANUFACTURER OF MASONRY UNITS.
3. EXECUTION
3.1. INSTALLATION, GENERAL
3.1.1. CUT MASONRY UNITS WITH SAW. INSTALL WITH CUT SURFACES AND, WHERE POSSIBLE, CUT EDGES CONCEALED.
3.1.2. MIX UNITS FOR EXPOSED UNIT MASONRY FROM SEVERAL PALETS OR CUBES AS THEY ARE PLACED TO PRODUCE UNIFORM BLEND OF COLORS AND TEXTURES. MATCHING EXISTING MASONRY: MATCH COURSING, BONDING, COLOR, AND TEXTURE OF EXISTING MASONRY.
3.1.4. STOPPING AND RESUMING WORK: STEP BACK UNITS; DO NOT TOOTH.
3.1.5. FILL COVES IN HOLLOW CONCRETE UNITS WITH GROUT 24 INCHES (600 MM) UNDER BEARING PLATES, BEAMS, LINTELS, POSTS, AND SIMILAR ITEMS UNLESS OTHERWISE INDICATED.
3.1.6. BUILD NONLOAD-BEARING INTERIOR PARTITIONS FULL HEIGHT AND INSTALL COMPRESSIBLE FILLER IN JOINT BETWEEN TOP OF PARTITION AND UNDERSIDE OF STRUCTURE ABOVE.
3.1.7. EXPOSED JOINTS SLIGHTLY CONCAVE WHEN THUMBPRINT HARD UNLESS OTHERWISE INDICATED.
3.1.8. KEEP CAVITIES CLEAN OF MORTAR DROPPINGS AND OTHER MATERIALS DURING CONSTRUCTION.

SECTION 055113 - METAL STAIRS

- 1. GENERAL
1.1. SECTION REQUIREMENTS
1.1.1. STRUCTURAL PERFORMANCE:
1.1.2. PROVIDE STAIRS CAPABLE OF WITHSTANDING A UNIFORM LOAD OF 100 LB/ SQ. FT. (4.79 KN/SQ. M) AND A CONCENTRATED LOAD OF 300 LB (1.33 KN) APPLIED ON AN AREA OF 4 SQ. IN. (2580 SQ. MM). UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.
1.1.3. PROVIDE RAILINGS CAPABLE OF WITHSTANDING STRUCTURAL LOADS REQUIRED BY ASCE 2.
1.2. SUBMITTALS: PRODUCT DATA, SHOP DRAWINGS, AND STRUCTURAL ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE PROJECT IS LOCATED.
2. PRODUCTS
2.1. METALS
2.1.1. STEEL PLATES, SHAPES, AND BARS: ASTM A 36/A 36M.
2.1.2. STEEL TUBING: ASTM A 500 (COLD FORMED).
2.1.3. ROLLED STEEL FLOOR PLATE: ASTM A 786/A 786M.
2.1.4. IRON CASTINGS: EITHER GRAY IRON, ASTM A 48/A 48M, CLASS 30, OR MALLEABLE IRON, ASTM A 47/A 47M, UNLESS OTHERWISE INDICATED.
2.1.5. UNCOATED, COLD-ROLLED STEEL SHEET: ASTM A 1008/A 1008M, EITHER COMMERCIAL STEEL, TYPE B, OR STRUCTURAL STEEL, GRADE 25 (GRADE 170).
2.1.6. UNCOATED, HOT-ROLLED STEEL SHEET: ASTM A 1011/A 1011M, EITHER COMMERCIAL STEEL, TYPE B, OR STRUCTURAL STEEL, GRADE 30 (GRADE 205).
2.1.7. EXPANDED METAL, CARBON STEEL: ASTM F 1267, CLASS 1 (UNCOATED).
2.1.8. ALUMINUM EXTRUSIONS: ASTM B 221 (ASTM B 221M), ALLOY 6063-T6.
2.2. MISCELLANEOUS MATERIALS
2.2.1. EXTERIOR ALUMINUM NOSINGS: SOLID-ABSORBE TYPE EXTRUDED ALUMINUM UNITS WITH ABRASIVE FINISH CONSISTING OF ALUMINUM-OXIDE OR SILICON-CARBIDE GRITS, OR A COMBINATION OF BOTH, IN AN EPOXY-RESIN BINDER. APPLY CLEAR LACQUEUR TO CONCEALED SURFACES OF UNITS SET INTO CONCRETE.
2.2.2. CONCRETE: COMPLY WITH DIVISION 3 SECTION "CAST-IN-PLACE CONCRETE" FOR ALL EXPOSED JOINTS. AIR-ENTRAINED CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI (20 MPa).
2.2.3. WELDED WIRE FABRIC: ASTM A 185, 6 BY 6 INCHES (152 BY 152 MM) - W1.4 BY

END OF SECTION 042000

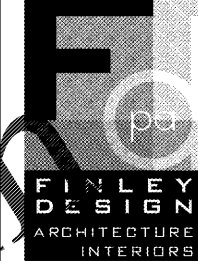
- 3. FABRICATION
3.1. GENERAL: SHEAR AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EXPOSED EDGES. FORM BENT-METAL CORNERS TO SMALLEST RADIUS POSSIBLE WITHOUT IMPAIRING WORK.
3.1.1. WELDING MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH OF BASE METALS. AT EXPOSED CONNECTIONS, FINISH WELDS AND SURFACES SMOOTH.
3.1.2. STAIR FRAMING: FABRICATE STRINGERS OF STEEL CHANNELS. CONSTRUCT PLATFORMS OF STEEL CHANNEL HEADERS AND MISCELLANEOUS FRAMING MEMBERS.
3.1.3. METAL FLOOR STAIRS: FORM RISERS, SUBTREAD PLATE, AND SUBPLATFORMS TO CONFIGURATIONS SHOWN FROM SHOP SHEET OF THICKNESS NEEDED TO COMPLY WITH PERFORMANCE REQUIREMENTS BUT NOT LESS THAN 0.677 INCH (1.7 MM) THICK.
3.1.4. ABRASIVE-COATING-FINISHED, FORMED-METAL STAIRS: FORM RISERS, TREADS, AND PLATFORMS FROM STEEL SHEET OF THICKNESS NEEDED TO COMPLY WITH PERFORMANCE REQUIREMENTS BUT NOT LESS THAN 0.096 INCH (2.5 MM) THICK. FINISH TREAD AND PLATFORM SURFACES WITH MANUFACTURER'S STANDARD EPOXY-BONDED ABRASIVE FINISH.
3.1.5. METAL FLOOR PLATE STAIRS: FORM TREADS AND PLATFORMS FROM ROLLED-STEEL FLOOR PLATE OF THICKNESS NEEDED TO COMPLY WITH PERFORMANCE REQUIREMENTS BUT NOT LESS THAN 1/8 INCH (3.2 MM) THICK. FORM TREADS WITH INTEGRAL NOSING AND BACK EDGE STIFFENER. WELD STEEL SUPPORTING BRACKETS TO STRINGERS AND WELD TREADS TO BRACKETS. STEEL TREAD RAILINGS: FABRICATE RAILINGS TO COMPLY WITH REQUIREMENTS INDICATED, BUT NOT LESS THAN THAT NEEDED TO WITHSTAND INDICATED LOADS.
3.1.6.1. CONFIGURATION: 1-5/8-INCH- (41-MM) DIAMETER TOP AND BOTTOM RAILS, 1/2-INCH- (13-MM) DIA. RAILS, AND 1/2-INCH- (13-MM)- SQUARE PICKETS SPACED LESS THAN 4 INCHES (100 MM) CLEAR.
3.1.6.2. CONFIGURATION: 1-1/2-INCH- (38-MM) SQUARE TOP AND BOTTOM RAILS AND PICKETS WITH INFL PANELS MADE FROM EXPANDED METAL. CONFIGURATION: 1-1/2-INCH- (38-MM) SQUARE TOP, BOTTOM, AND INTERMEDIATE RAILS AND PICKETS. SPACE INTERMEDIATE RAILS LESS THAN 21 INCHES (533 MM) CLEAR.
3.1.6.4. FABRICATE RAILINGS WITH WELDED CONNECTIONS. FACE PICKETS AND COMPONENTS AT CONNECTIONS TO PROVIDE CLOSE FIT. ON FITTINGS DESIGNED FOR THIS PURPOSE.
3.1.6.5. FORM CHANGES IN DIRECTION OF RAILINGS BY BENDING OR BY INSERTING PREFABRICATED FITTINGS.
3.1.6.6. PROVIDE WALL BRACKETS, END CONNECTIONS, FLANGES, MISCELLANEOUS FITTINGS, AND ANCHORS FOR OTHER WORK. CONNECT COMPONENTS AND FOR ATTACHING TO OTHER WORK.
3.1.6.7. CONNECT PICKETS TO RAIL FRAMING BY DRILLING AND WELDING.
4. FINISHES
4.1. COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTS" FOR METAL PRODUCTS. PROVIDE RECOMMENDATION FOR APPLYING AND DESIGNATING FINISHES.
4.2. FINISH METAL STAIRS AFTER ASSEMBLY.
4.3. HOT-DIP GALVANIZED STEEL STAIRS AT EXTERIOR LOCATIONS.
4.4. PREPARE UNFINISHED FERROUS METAL SURFACES TO COMPLY WITH SSPC-SP 3, "POWER TOOL CLEANING," AND PAINT WITH THE LISTED COATING, LEAD- AND CHROMATE-FREE UNIVERSAL MODIFIED-ALKYD ENAMEL COMPLYING WITH MP#79.
5. EXECUTION
5.1. INSTALLATION
5.1.1. PERFORM CURING, DRILLING, AND FITTING REQUIRED FOR INSTALLING METAL STAIRS. SET UNITS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION. MEASURED FROM FINISHED LINES AND LEVELS AND FREE OF RACK.
5.1.2. FIT EXPOSED CONNECTIONS ACCURATELY TOGETHER TO FORM RAILING JOINTS. WELD CONNECTIONS THAT ARE NOT TO BE LEFT AS EXPOSED. JOINTS DO NOT SPILL, Drip, CUT, OR ABRASE SURFACES OF EXTERIOR UNITS THAT HAVE BEEN HOT-DIP GALVANIZED AFTER FABRICATION AND ARE FOR BOLTED OR SCREWED FIELD CONNECTIONS.
5.1.3. PLACE AND FINISH CONCRETE FILL FOR TREADS AND PLATFORMS TO COMPLY WITH DIVISION 3 SECTION "CAST-IN-PLACE CONCRETE." INSTALL ABRASIVE NOSING WITH ANCHORS CLEARLY EMBEDDED IN CONCRETE.
5.1.4. ATTACH HANDRAILS TO WALL WITH WALL BRACKETS. USE TYPE OF BRACKET WITH PREDRILLED HOLE FOR EXPOSED BOLT ANCHORAGE.

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

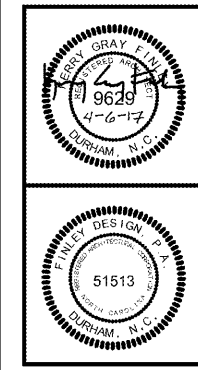
- 1. GENERAL
1.1. SECTION REQUIREMENTS
1.1.1. SUBMITTALS: ICC-ES EVALUATION REPORTS FOR TREATED WOOD.
1.2. PRODUCTS
1.2.1. WOOD PRODUCTS, GENERAL
1.2.2. INTERIOR: PROVIDE DRESSED LUMBER, S4S, MARKED WITH GRADE STAMP OF INSPECTION AGENCY.
1.2.3. CERTIFIED WOOD: WOOD-BASED MATERIALS SHALL BE CERTIFIED AS "FSC PURE" OR "FSC MIXED CREDIT" ACCORDING TO FSC STD-01-001, "FSC PRINCIPLES AND CRITERIA FOR FOREST STEWARDSHIP," AND TO FSC STD-04-004, "FSC STANDARD FOR CHAIN OF CUSTODY CERTIFICATION."
1.2.4. TREATED MATERIALS
1.2.4.1. PRESERVATIVE-TREATED MATERIALS: AFWA U1: USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.
1.2.4.2. USE TREATMENT CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
1.2.4.3. KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
1.2.4.4. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY AND WITH THE ALSO REQUIRED OF REVIEW.
1.2.4.5. PROVIDE PRESERVATIVE-TREATED MATERIALS FOR ITEMS INDICATED ON DRAWINGS, AND THE FOLLOWING:
1.2.4.5.1. WOOD CANTS, NAILERS, CURBS, EQUIPMENT SUPPORT BASES, BLOCKING, STRIPPING, AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
1.2.4.5.2. WOOD SILLS, BLOCKING, FURRING, AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
1.2.4.5.3. WOOD FRAMING MEMBERS THAT ARE LESS THAN 18 INCHES (460 MM) ABOVE THE GROUND.
1.2.4.5.4. WOOD FLOOR PLATES THAT ARE INSTALLED OVER CONCRETE SLABS-ON-GRADE.
1.2.4.6. FIRE-RETARDANT-TREATED MATERIALS:
1.2.4.6.1. PRODUCTS WITH A FLAME-SPREAD INDEX OF 25 OR LESS WHEN TESTED ACCORDING TO ASTM E 84, AND WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN THE TEST IS EXTENDED AN ADDITIONAL 20 MINUTES, AND WITH THE FLAME FRONT NOT EXTENDING MORE THAN 10.5 FEET (3.2 M) BEYOND THE CENTERLINE OF THE BURNERS AT ANY TIME DURING THE TEST.
1.2.4.6.2. USE EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
1.2.4.6.3. USE INTERIOR TYPE UNLESS OTHERWISE INDICATED.
1.2.4.6.4. FOR ENCLOSED ROOF FRAMING, FRAMING IN ATTIC SPACES, AND WHERE HIGH-TEMPERATURE FIRE-RETARDANT TREATMENT IS INDICATED, PROVIDE MATERIAL WITH DESIGN ADJUSTMENT FACTORS OF NOT LESS THAN 0.85 FOR MODULUS OF ELASTICITY AND 0.75 FOR EXTREME FIBER IN BENDING FOR PROJECTS CLIMATOLOGICAL ZONE.
1.2.4.6.5. IDENTIFY WITH APPROPRIATE CLASSIFICATION MARKING OF A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
1.2.4.6.6. PROVIDE FIRE-RETARDANT TREATED MATERIALS FOR ITEMS INDICATED ON DRAWINGS.
1.2.4.7. LUMBER
1.2.4.7.1. CERTIFIED WOOD: LUMBER SHALL BE CERTIFIED AS "FSC PURE" OR "FSC MIXED CREDIT" ACCORDING TO FSC STD-01-001, "FSC PRINCIPLES AND CRITERIA FOR FOREST STEWARDSHIP," AND TO FSC STD-04-004, "FSC STANDARD FOR CHAIN OF CUSTODY CERTIFICATION."
1.2.5. FASTENERS
1.2.5.1. FASTENERS: SIZE AND TYPE INDICATED, WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREA OF HIGH RELATIVE HUMIDITY. PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153/A 153M.
1.2.5.2. POWER-DRIVEN FASTENERS: CABO NER-272.
2. EXECUTION
2.1. INSTALLATION
2.1.1. SET MISCELLANEOUS ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH

END OF SECTION 055113

- MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED. LOCATE NAILERS, BLOCKING, AND SIMILAR SUPPORTS TO COMPLY WITH REQUIREMENTS FOR ATTACHING OTHER CONSTRUCTION.
2.1.2. SECURELY ATTACH MISCELLANEOUS ROUGH CARPENTRY TO SUBSTRATES.
2.1.2.1. COMPLYING WITH THE FOLLOWING:
2.1.2.2. CABO NER-272 FOR POWER-DRIVEN FASTENERS.
ITEM 2304.9.1, "FASTENING SCHEDULE," IN THE IBC.
-- END OF SECTION 061053 --
SECTION 061600 - SHEATHING
1. GENERAL
1.1. SECTION REQUIREMENTS
1.1.1. SUBMITTALS: ICC-ES EVALUATION REPORTS FOR SHEATHING.
2. PRODUCTS
2.1. WOOD PANEL PRODUCTS, GENERAL
2.1.2. PLYWOOD: DOC P5.1.
2.1.3. ORIENTED STRAND BOARD: DOC P5.2.
2.1.4. CERTIFIED WOOD: WOOD-BASED MATERIALS SHALL BE CERTIFIED AS "FSC PURE" OR "FSC MIXED CREDIT" ACCORDING TO FSC STD-01-001, "FSC PRINCIPLES AND CRITERIA FOR FOREST STEWARDSHIP," AND TO FSC STD-04-004, "FSC STANDARD FOR CHAIN OF CUSTODY CERTIFICATION."
2.5. TREATED PLYWOOD
2.5.1. PRESERVATIVE-TREATED PLYWOOD: AFWA U1: USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.
2.5.2. USE TREATMENT CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
2.5.3. KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 15 PERCENT.
2.5.4. PRESERVATIVE-TREATED PLYWOOD FOR ITEMS INDICATED ON DRAWINGS.
2.6. FIRE-RETARDANT-TREATED MATERIALS:
2.6.1. PRODUCTS WITH A FLAME-SPREAD INDEX OF 25 OR LESS WHEN TESTED ACCORDING TO ASTM E 84, AND WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN THE TEST IS EXTENDED AN ADDITIONAL 20 MINUTES, AND WITH THE FLAME FRONT NOT EXTENDING MORE THAN 10.5 FEET (3.2 M) BEYOND THE CENTERLINE OF THE BURNERS AT ANY TIME DURING THE TEST.
2.6.2. USE EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2.6.3. USE INTERIOR TYPE UNLESS OTHERWISE INDICATED.
2.6.4. FOR ROOF SHEATHING AND WHERE HIGH-TEMPERATURE FIRE-RETARDANT TREATMENT IS INDICATED, SPAN RATINGS FOR TEMPERATURES UP TO 170 DEG F (76 DEG C) SHALL BE NOT LESS THAN SPAN RATINGS SPECIFIED.
2.6.5. IDENTIFY WITH APPROPRIATE CLASSIFICATION MARKING OF A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
2.6.6. PROVIDE FIRE-RETARDANT-TREATED PLYWOOD FOR ITEMS INDICATED ON DRAWINGS.
2.7. WALL SHEATHING
2.7.1. GLASS-MAT GYPSUM WALL SHEATHING: ASTM C 1177/1177M.
2.7.1.1. PRODUCTS: [ONE OF THE FOLLOWING]:
2.7.1.1.1. CERTIFIED CORPORATION, GLASROC.
2.7.1.1.2. GEORGIA-PACIFIC BUILDING PRODUCTS: DENS-GLASS GOLD.
2.7.1.1.3. NATIONAL GYPSUM COMPANY: GOLD BOND (E)2X.
2.7.1.1.4. TEMPLE-INLAND BUILDING PRODUCT BY GEORGIA-PACIFIC: GREENGLASS.
2.7.1.1.5. UNITED STATES GYPSUM CO.: SECUROCK.
2.8. ROOF SHEATHING
2.8.1. GLASS-MAT GYPSUM ROOF BOARD: ASTM C 1177/1177M.
2.8.1.1. MANUFACTURERS: [ONE OF THE FOLLOWING]:
2.8.1.1.1. UNITED STATES GYPSUM CO.: SECUROCK.
2.9. MISCELLANEOUS PRODUCTS
2.9.1. FASTENERS: SIZE AND TYPE INDICATED.
2.9.2. FOR ROOF AND WALL SHEATHING, PROVIDE FASTENERS OF TYPE 304 STAINLESS STEEL.
2.9.3. POWER-DRIVEN FASTENERS: CABO NER-272.
2.9.4. SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS:
2.9.5. SEALANT FOR GLASS MAT GYPSUM SHEATHING: SILICONE EMULSION SEALANT, RECOMMENDED BY TAPE AND SHEATHING MANUFACTURERS FOR APPLICATION INDICATED.
2.9.6. SHEATHING TAPE FOR GLASS-MAT GYPSUM SHEATHING: SELF-ADHERING, GLASS-FIBER TAPE RECOMMENDED BY SHEATHING AND TAPE MANUFACTURERS FOR APPLICATION INDICATED.
2.9.7. ADHESIVES FOR FIELD GLULING PANELS TO FRAMING: AFA AFG-01.
3. EXECUTION
3.1. INSTALLATION
3.1.1. SECURELY ATTACH TO SUBSTRATES, COMPLYING WITH THE FOLLOWING:
3.1.1.1. CABO NER-272 FOR POWER-DRIVEN FASTENERS.
3.1.1.2. ITEM 2304.9.1, "FASTENING SCHEDULE," IN THE IBC.
3.2. FASTENING METHODS
3.2.1. WALL AND ROOF SHEATHING: SCREW TO COLD-FORMED METAL FRAMING.
3.2.2. GLASS-MAT GYPSUM SHEATHING JOINT-AND-PENETRATION TREATMENT: SEAL SHEATHING JOINTS AND PENETRATIONS ACCORDING TO SHEATHING MANUFACTURER'S WRITTEN INSTRUCTIONS.
3.2.3. INSTALL CEMENTITIOUS BACKER UNITS AND TREAT JOINTS ACCORDING TO ANSI A108.11 AND MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TYPE OF APPLICATION INDICATED.
-- END OF SECTION 061600 --
SECTION 072100 - THERMAL INSULATION
1. GENERAL
1.1. SECTION REQUIREMENTS
1.1.1. SUBMITTALS: PRODUCT DATA AND ICC-ES EVALUATION REPORTS FOR FOAM-PLASTIC INSULATION.
1.1.2. SURFACE-BURNING CHARACTERISTICS: ACCORDING TO ASTM E 84 BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.
2. PRODUCTS
2.1. INSULATION PRODUCTS
2.1.1. EXTRUDED-POLYSTYRENE BOARD INSULATION: ASTM C 578, WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 75 AND 450, RESPECTIVELY.
2.1.2. MANUFACTURERS: ONE OF THE FOLLOWING:
2.1.2.1. OWENS CORNING.
2.1.2.2. DOW CHEMICAL COMPANY [THE].
2.1.2.3. OWENS CORNING.
2.1.2.4. PACIFY CORPORATION.
2.1.2.5. GLASS-FIBER-BLANKET INSULATION: ASTM C 665, TYPE III, CLASS A, FOIL FACED ON ONE SIDE WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 450, RESPECTIVELY.
2.1.2.6. MANUFACTURERS: ONE OF THE FOLLOWING:
2.1.2.6.1. CERTIFIED CORPORATION.
2.1.2.6.2. GUARDIAN BUILDING PRODUCTS, INC.
2.1.2.6.3. JOHNS MANVILLE: A BERKSHIRE HATHAWAY COMPANY.
2.1.2.6.4. KNAPF INSULATION.
2.1.2.6.5. OWENS CORNING.
2.1.3. CLOSED-CELL POLYURETHANE FOAM INSULATION: ASTM C 1029, TYPE I, WITH MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 75 AND 450, RESPECTIVELY, AND MINIMUM DENSITY OF 1.5 LB/ CU. FT. (24 KG/ CU. M).
2.1.3.1. MANUFACTURERS: ONE OF THE FOLLOWING:
2.1.3.1.1. BASF CORPORATION.
2.1.3.1.2. BAYWATER MATERIALS SCIENCE.
2.1.3.1.3. DOW CHEMICAL COMPANY [THE].
2.1.3.1.4. ERYSTEMS, INC.
2.1.3.1.5. GACO WESTERN LLC.
2.1.3.1.6. HENRY COMPANY.
2.1.3.1.7. NCH POLYURETHANES A DIVISION OF BARNHARDT MFG. CO.
2.1.3.1.8. SWANSON.
2.1.3.1.9. VOLATILE FREE, INC.
3. EXECUTION
3.1. INSTALLATION
3.1.1. INSTALL INSULATION IN AREAS AND IN THICKNESSES INDICATED OR REQUIRED TO PRODUCE R-VALUES INDICATED, CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS WITH INSULATION.
3.1.2. EXCEPT FOR CLOSED-CELL POLYURETHANE AND INSULATION THAT IS FRICTION FITTED IN STUD CAVITIES, BOND UNITS TO SUBSTRATE WITH ADHESIVE OR USE MECHANICAL ANCHORAGE TO PROVIDE PERMANENT PLACEMENT AND SUPPORT OF UNITS.



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Table with 2 columns: REVISIONS, and empty rows for revision tracking.

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