

SECTION 06 4100 - ARCHITECTURAL WOOD CASEWORK

- PART 1 GENERAL
PART 2 PRODUCTS
1. CABINETS
1.1. QUALITY GRADE: UNLESS OTHERWISE INDICATED PROVIDE PRODUCTS OF QUALITY SPECIFIED BY AWW/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS FOR PREMIUM GRADE.
1.2. PLASTIC LAMINATE FACED CABINETS: CUSTOM GRADE - IN LOCATIONS INDICATED ON CONTRACT DRAWINGS.
1.3. CABINETS:
1.3.1. FINISH - EXPOSED EXTERIOR SURFACES: DECORATIVE PLASTIC LAMINATE; TYPE VARIES BY LOCATION. COORDINATE LAMINATE SELECTIONS WITH OWNER / ARCHITECT.
1.3.2. FINISH - EXPOSED INTERIOR SURFACES: WHITE MELAMINE.
1.3.3. DOOR AND DRAWER FRONT EDGE PROFILES: SQUARE EDGE WITH THIN APPLIED BAND.
1.3.4. CASEWORK CONSTRUCTION TYPE: TYPE A - FRAMELESS.
2. LAMINATE MATERIALS
2.1. HIGH PRESSURE DECORATIVE LAMINATE (HPDL): NEMA LD 3, TYPES AS RECOMMENDED FOR SPECIFIC APPLICATIONS.
3. COUNTERTOPS
3.1. MATERIAL AND FINISH: PLASTIC LAMINATE AS SELECTED BY OWNER / ARCHITECT.
3.2. PLASTIC LAMINATE COUNTERTOPS: PLYWOOD SUBSTRATE COVERED WITH HPDL, CONVENTIONALLY FABRICATED AND SELF-EDGE Banded.
4. SHOP FINISHING
4.1. FINISH WORK IN ACCORDANCE WITH AWW/AWMAC/WI ARCHITECTURAL WOODWORK STANDARDS, SECTION 5 - FINISHING FOR GRADE SPECIFIED

PART 3 EXECUTION - NOT USED

SECTION 07 1300 - SHEET/FLUID APPLIED WATERPROOFING

- PART 1 GENERAL
*CONTRACTOR SHALL PROVIDE SINGLE SOURCE RESPONSIBILITY FOR ALL BUILDING WATERPROOFING COMPONENTS. ONE CONTRACT SHALL BE RESPONSIBLE FOR COORDINATION / INSTALLATION OF ALL COMPONENTS AFFECTING BUILDING WATER / AIR BARRIER. VERIFY COMPATIBILITY OF ALL MEMBRANE FLASHING AND BUILDING WRAPS W/ ADJACENT MATERIALS. DO NOT MIX ASPHALTIC AND BITUMINOUS BASED FLASHING / MATERIALS WITHOUT APPROPRIATE SEPARATION.
PART 2 PRODUCTS
1. WATERPROOFING APPLICATIONS
1.1. SELF-ADHERED MODIFIED ASPHALTIC SHEET WATERPROOFING: USE AS INDICATED ON DRAWINGS.
1.1.1. FOR USE AT THE FOLLOWING LOCATIONS:
1.1.1.1. MEMBRANE FLASHING AT BUILDING EXTERIOR WALL ASSEMBLY LOCATIONS ABOVE GRADE.
1.2. SELF-ADHERED RUBBERIZED ASPHALT SHEET WITH CROSS LAMINATED POLYETHYLENE FILM (ICE AND WATER SHIELD):
1.2.1. FOR USE AT THE FOLLOWING LOCATIONS:
1.2.1.1. ROOFING SYSTEM UNDERLAYMENT WATERPROOFING.
1.3. POLYMER MODIFIED ASPHALT WATERPROOFING: USE AT BELOW GRADE FOUNDATION WALLS. PROVIDE FULL SYSTEM INCLUDING FLUID APPLIED WATERPROOFING MEMBRANE, DRAINAGE SHEET LAYER, CARLSLE 'BARRICOAT' OR EQUAL.
1.3.1. VERTICAL SURFACES: ADHESIVE BONDED TO SUBSTRATE.
1.3.2. HORIZONTAL SURFACES: ADHESIVE BONDED TO SUBSTRATE.
1.3.3. COVER WITH PROTECTION BOARD.
2. MEMBRANE MATERIALS
2.1. SELF-ADHERED ASPHALTIC MEMBRANE IN LOCATIONS IDENTIFIED ON DRAWINGS; 40 MIL MINIMUM THICKNESS.
3. FLUID APPLIED WATERPROOFING MATERIALS
3.1. WATER BASED, RUBBERIZED ASPHALT EMULSION WHICH RAPIDLY CURES IN PLACE TO PROVIDE A SEAMLESS WATERPROOFING MEMBRANE.
4. SEAMING MATERIALS
4.1. AS RECOMMENDED BY MEMBRANE MANUFACTURER.
5. MEMBRANE SEALANT
5.1. AS RECOMMENDED BY MEMBRANE MANUFACTURER

- PART 3 EXECUTION
1. INSTALLATION - MEMBRANE
1.1. INSTALL MEMBRANE WATERPROOFING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
1.2. SELF-ADHERING MEMBRANE: REMOVE RELEASE PAPER LAYER. ROLL OUT ON SUBSTRATE WITH A MECHANICAL ROLLER TO ENCOURAGE FULL CONTACT BOND.
1.3. OVERLAP EDGES AND ENDS AND SEAL BY METHOD RECOMMENDED BY MANUFACTURER, MINIMUM 3 INCHES (75 MM). SEAL PERMANENTLY WATERPROOF. APPLY UNIFORM BEAD OF SEALANT TO JOINT EDGE.
2. INSTALLATION - FLUID APPLIED MEMBRANE
2.1. ALLOW MATERIALS USED DURING SURFACE PREPARATION TO CURE FULLY BEFORE APPLYING PRODUCT.
2.2. ROLLER-GRADE PRODUCT: APPLY ACCORDING TO INSTRUCTIONS IN MANUFACTURER'S LITERATURE.
2.3. CURED MEMBRANE THICKNESS SHALL MEASURE A MINIMUM OF 0.060 INCH (60MILS).
2.4. PROVIDE COMPLETE COVERAGE WITHOUT PINHOLES OR VOIDS. APPLY GREATER THICKNESS OF PRODUCT AS NECESSARY TO PROVIDE CONTINUOUS COATING OVER ROUGH SURFACES AND IRREGULARITIES.
3. INSTALLATION - DRAINAGE PANEL AND PROTECTION BOARD
3.1. PLACE DRAINAGE PANEL DIRECTLY AGAINST MEMBRANE, BUTT JOINTS, PLACE TO ENCOURAGE DRAINAGE DOWNWARD. SCRIBE AND CUT BOARDS AROUND PROJECTIONS, PENETRATIONS, AND INTERRUPTIONS.
3.2. PLACE PROTECTION BOARD DIRECTLY AGAINST BELOW GRADE INSULATION; BUTT JOINTS. SCRIBE AND CUT BOARDS AROUND PROJECTIONS, PENETRATIONS, AND INTERRUPTIONS.

SECTION 07 2100 - THERMAL INSULATION

- PART 1 GENERAL
1. SUBMITTALS
1.1. PRODUCT DATA: PROVIDE DATA ON PRODUCT CHARACTERISTICS, PERFORMANCE CRITERIA, AND PRODUCT LIMITATIONS.
PART 2 PRODUCTS
1. APPLICATIONS
1.1. INSULATION UNDER CONCRETE SLABS: EXTRUDED POLYSTYRENE BOARD; THICKNESS AS REQUIRED TO ACHIEVE R-15 CI.
1.2. INSULATION AT PERIMETER OF FOUNDATION: EXPANDED POLYSTYRENE BOARD; THICKNESS AS REQUIRED TO ACHIEVE R-15 CI.
1.3. INSULATION INSIDE MASONRY CAVITY WALLS: EXPANDED POLYSTYRENE BOARD; THICKNESS AS REQUIRED TO ACHIEVE R-3.8 CI.
1.4. INSULATION BEHIND EIFS VENEER: EXPANDED POLYSTYRENE BOARD; THICKNESS AS REQUIRED TO ACHIEVE R-3.8 CI.
1.5. INSULATION IN WOOD FRAMED WALLS: BATT INSULATION (UNFACED) WITH NO VAPOR RETARDER. PROVIDE NON-COMBUSTIBLE MATERIAL RATED FOR PLENUM EXPOSURE WHEREVER EXPOSED TO THE INTERIOR OF THE BUILDING OR PLENUM; THICKNESS AS REQUIRED TO ACHIEVE R-19.
1.6. INSULATION IN ROOFING SYSTEM: NONE.
1.7. INSULATION ABOVE LAY-IN ACOUSTICAL CEILINGS: NONE
2. FOAM BOARD INSULATION MATERIALS
2.1. EXPANDED POLYSTYRENE BOARD INSULATION: ASTM C 578; WITH THE FOLLOWING CHARACTERISTICS:
2.1.1. FLAME SPREAD INDEX: 75 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2.1.2. SMOKE DEVELOPED INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2.1.3. THERMAL CONDUCTIVITY (K FACTOR) AT 25 DEGREES F (-3.9 DEGREES C): 0.28 (0.48).
2.1.4. THERMAL RESISTANCE: R-VALUE AS LISTED PER ASSEMBLY AND SPECIFIC LOCATION.
2.2. EXTRUDED POLYSTYRENE BOARD INSULATION: ASTM C 578, TYPE X; EXTRUDED POLYSTYRENE BOARD WITH EITHER NON-FIBER SKIN OR CUT CELL SURFACES; WITH THE FOLLOWING CHARACTERISTICS:
2.2.1. FLAME SPREAD INDEX: 75 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2.2.2. SMOKE DEVELOPED INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2.2.3. THERMAL CONDUCTIVITY (K FACTOR) AT 25 DEGREES F (-3.9 DEGREES C): 0.18 (0.31).
2.2.4. THERMAL RESISTANCE: R-VALUE AS LISTED PER ASSEMBLY AND SPECIFIC LOCATION.
2.3. POLYISOCYANURATE BOARD INSULATION: RIGID CELLULAR ISOCYANURATE FOAM, COMPLYING WITH ASTM C 1289; TYPE I, ALUMINUM FOIL BOTH FACES; CLASS 1, NON-REINFORCED FOAM CORE.
2.3.1. FLAME SPREAD INDEX: 75 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2.3.2. SMOKE DEVELOPED INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2.3.3. THERMAL RESISTANCE: R-VALUE AS LISTED PER ASSEMBLY AND SPECIFIC LOCATION.
3. BATT INSULATION MATERIALS
3.1. PROVIDE PRODUCTS COMPLYING WITH NON-COMBUSTIBLE SPECIFICATIONS AS LISTED IN THE 2012 NORTH CAROLINA BUILDING CODE WHERE BATT INSULATION WILL BE EXPOSED TO THE RETURN AIR PLENUM. PRODUCTS MUST BE RATED FOR SUCH EXPOSURE OR SEPARATED FROM THE PLENUM BY A MEMBRANE.
3.2. WHERE BATT INSULATION IS INDICATED, EITHER GLASS FIBER OR MINERAL FIBER BATT INSULATION MAY BE USED, AT CONTRACTOR'S OPTION.
3.3. GLASS FIBER BATT INSULATION: FLEXIBLE PREFORMED BATT OR BLANKET, COMPLYING WITH ASTM C 665; FRICTION FIT.
3.3.1. FLAME SPREAD INDEX: 25 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
3.3.2. SMOKE DEVELOPED INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
3.3.3. COMBUSTIBILITY: NON-COMBUSTIBLE, WHEN TESTED IN ACCORDANCE WITH ASTM E 136, EXCEPT FOR FACING, IF ANY.
3.3.4. THERMAL RESISTANCE: R-19 IN EXTERIOR WALL ASSEMBLIES.
3.3.5. THICKNESS: AS REQUIRED TO MEET APPLICABLE THERMAL RESISTANCE VALUE.
3.3.6. FACING: UNFACED.

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- 3.4. MINERAL FIBER BATT INSULATION: FLEXIBLE PREFORMED BATT OR BLANKET, COMPLYING WITH ASTM C 665; FRICTION FIT; UNFACED FLAME SPREAD INDEX OF 0 (ZERO) WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
3.4.1. WHERE INDICATED, PROVIDE FOIL FACING ON ONE SIDE, WITH FLAME SPREAD INDEX OF 25 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
3.4.2. SMOKE DEVELOPED INDEX: 0 (ZERO), WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
3.4.3. THERMAL RESISTANCE: R-19 IN EXTERIOR WALL ASSEMBLIES.
3.4.4. THICKNESS: AS REQUIRED TO MEET APPLICABLE THERMAL RESISTANCE VALUE.
4. ACCESSORIES
4.1. TAPE: BRIGHT ALUMINUM SELF-ADHERING TYPE, MESH REINFORCED, 2 INCH (50 MM) WIDE.
4.2. INSULATION FASTENERS: IMPALING CLIP OF UNFINISHED STEEL WITH WASHER RETAINER AND CLIPS, TO BE ADHERED TO SURFACE TO RECEIVE INSULATION, LENGTH TO SUIT INSULATION THICKNESS AND SUBSTRATE, CAPABLE OF SECURELY AND RIGIDLY FASTENING INSULATION IN PLACE.
4.3. NAILS OR STAPLES: STEEL WIRE, ELECTROPLATED OR GALVANIZED; TYPE AND SIZE TO SUIT APPLICATION.
4.4. WIRE MESH: GALVANIZED STEEL, HEXAGONAL WIRE MESH.
4.5. ADHESIVE: TYPE RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATION.

PART 3 EXECUTION

- 1. BOARD INSTALLATION AT FOUNDATION PERIMETER
1.1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
1.2. ADHERE A 6 INCH (150 MM) WIDE STRIP OF POLYETHYLENE SHEET OVER CONSTRUCTION, CONTROL, AND EXPANSION JOINTS WITH DOUBLE BEADS OF ADHESIVE EACH SIDE OF JOINT.
2. BOARD INSTALLATION AT CAVITY WALLS
2.1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2.2. DO NOT TAPE SEAMS / JOINTS IN INSULATION BOARDS. JOINTS TO BE BUTTED TIGHTLY TOGETHER.
2.3. SECURE IMPALE FASTENERS TO SUBSTRATE AT A FREQUENCY AS FOLLOWS:
2.3.1. AS RECOMMENDED BY MANUFACTURER
3. BOARD INSTALLATION UNDER CONCRETE SLABS
3.1. PLACE INSULATION UNDER SLABS ON GRADE AFTER BASE FOR SLAB HAS BEEN COMPACTED.
4. BATT INSTALLATION
4.1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4.2. INSTALL IN EXTERIOR WALL AND ROOF SPACES WITHOUT GAPS OR VOIDS. DO NOT COMPRESS INSULATION.
4.3. BATT INSULATION SHALL EITHER BE RATED FOR EXPOSURE OR SEPARATED VIA A MEMBRANE AND NOT LEFT EXPOSED TO RETURN AIR PLENUMS.

SECTION 07 2400 - EIFS -DRAINAGE TYPE

- PART 1 GENERAL
*CONTRACTOR SHALL PROVIDE SINGLE SOURCE RESPONSIBILITY FOR ALL BUILDING WATERPROOFING COMPONENTS. ONE CONTRACT SHALL BE RESPONSIBLE FOR COORDINATION/INSTALLATION OF ALL COMPONENTS AFFECTING BUILDING WATER / AIR BARRIER.
1. SUBMITTALS
1.1. SHOP DRAWINGS: INDICATE WALL AND SOFFIT JOINT PATTERNS, JOINT DETAILS, AND MOLDING PROFILES.
1.2. PRODUCT DATA: PROVIDE DATA ON SYSTEM MATERIALS, PRODUCT CHARACTERISTICS, PERFORMANCE CRITERIA, AND SYSTEM LIMITATIONS.
2. FIELD CONDITIONS
2.1. DO NOT PREPARE MATERIALS OR APPLY EIFS DURING INCLEMENT WEATHER UNLESS AREAS OF INSTALLATION ARE PROTECTED. PROTECT INSTALLED EIFS AREAS FROM INCLEMENT WEATHER UNTIL DRY.
3. WARRANTY
3.1. PROVIDE MANUFACTURER'S STANDARD MATERIAL WARRANTY, COVERING A PERIOD OF NOT LESS THAN 5 YEARS.
PART 2 PRODUCTS
1. EXTERIOR INSULATION AND FINISH SYSTEM: DRAINAGE TYPE; REINFORCED FINISH COATING ON MECHANICALLY-FASTENED INSULATION BOARD OVER SHEET-TYPE DRAINAGE LAYER OR SPACERS AND SEPARATE SHEET-TYPE WATER-RESISTIVE BARRIER OVER SUBSTRATE; PROVIDE A COMPLETE SYSTEM THAT HAS BEEN TESTED TO SHOW COMPLIANCE WITH THE FOLLOWING CHARACTERISTICS; INCLUDE ALL COMPONENTS OF SPECIFIED SYSTEM AND SUBSTRATE(S) IN TESTED SAMPLES.
2. MATERIALS
2.1. FINISH COATING TOP COAT: WATER-BASED, AIR CURING, ACRYLIC OR POLYMER-BASED FINISH WITH INTEGRAL COLOR AND TEXTURE.
2.2. TEXTURE: SMOOTH.
2.3. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE.
2.4. BASE COAT: ACRYLIC-OR POLYMER-MODIFIED, FIBER REINFORCED PORTLAND CEMENT COATING.
2.5. REINFORCING MESH: BALANCED, OPEN WEAVE GLASS FIBER FABRIC, TREATED FOR COMPATIBILITY AND IMPROVED BOND WITH COATING, WEIGHT, STRENGTH, AND NUMBER OF LAYERS AS REQUIRED TO MEET REQUIRED SYSTEM IMPACT RATING.
2.6. INSULATION BOARD: MOLDED, EXPANDED POLYSTYRENE BOARD; ASTM C 578, TYPE I; WITH THE FOLLOWING CHARACTERISTICS:
2.6.1. GROOVED BOARD: BACK SIDE OF BOARD ADJACENT TO SHEATHING GROOVED WITH VERTICAL CHANNELS DESIGNED TO ALLOW MOISTURE TO DRAIN; AT DRAINAGE POINTS PROVIDE BOARD CONFIGURATION THAT PERMITS DRAINAGE TO THE EXTERIOR.
2.6.2. BOARD THICKNESS: AS INDICATED ON DRAWINGS.
2.6.3. INSULATION BOARD: EXTRUDED POLYSTYRENE BOARD WITH NATURAL SKIN SURFACES ; ASTM C 578, TYPE IV ; WITH THE FOLLOWING CHARACTERISTICS:
2.6.4. BOARD THICKNESS: AS INDICATED ON DRAWINGS.
2.6.5. THERMAL CONDUCTIVITY (K FACTOR) AT 25 DEGREES F (-3.9 DEGREES C): 0.18 (0.31) AS DETERMINED BY ASTM C 177.
2.7. DRAINAGE LAYER OR SPACERS: FURNISHED OR APPROVED BY EIFS MANUFACTURER; CAPABLE OF ACHIEVING SPECIFIED DRAINAGE RATE; NOT REQUIRED TO BE WATER-RESISTIVE, AIR RETARDER, OR VAPOR RETARDER.
2.8. WATER-RESISTIVE BARRIER: SHEET TYPE MATERIAL THAT CONSTITUTES AN AIR RETARDER BUT WHICH IS VAPOR PERMEABLE; ONE OF THE FOLLOWING UNLESS OTHERWISE REQUIRED BY EIFS MANUFACTURER OR AUTHORITIES HAVING JURISDICTION:
2.8.1. AIR RETARDER: AIR- AND WATER-RESISTIVE SHEET COMPLYING WITH ASTM E 1677 TYPE I WATER VAPOR PERMEANCE OF 20 PERMS (1150 NG/(S M SQ PA)); FURNISHED OR APPROVED BY EIFS MANUFACTURER.
2.9. FLASHING TAPE: SELF-ADHERING RUBBERIZED ASPHALT TAPE WITH POLYETHYLENE BACKING OR OTHER MATERIAL, FURNISHED OR APPROVED BY EIFS MANUFACTURER.
3. ACCESSORY MATERIALS
3.1. INSULATION ADHESIVE: TYPE REQUIRED BY EIFS MANUFACTURER FOR PROJECT SUBSTRATE.
3.2. INSULATION FASTENERS: FASTENER AND PLATE SYSTEM APPROPRIATE TO SUBSTRATE AND AS RECOMMENDED BY EIFS MANUFACTURER.
3.3. METAL FLASHINGS: AS SPECIFIED IN SECTION 07 6200
3.4. METAL LATH: ASTM C 847, SELF-FURRING GALVANIZED DIAMOND MESH, 2.3 LB/SQ YD (1.4 KG/SQ M).
3.5. TRIM: EIFS MANUFACTURER'S STANDARD DRY OR GALVANIZED STEEL TRIM ACCESSORIES, REQUIRED FOR A COMPLETE PROJECT AND INCLUDING STARTER TRACKS AND DRAINAGE ACCESSORIES.
3.6. SEALANT MATERIALS: AS RECOMMENDED BY EIFS MANUFACTURER.
PART 3 EXECUTION
1. GENERAL
1.1. INSTALL IN ACCORDANCE WITH EIFS MANUFACTURER'S INSTRUCTIONS AND ASTM C 1397.
2. INSTALLATION - WATER-RESISTIVE BARRIER
2.1. APPLY BOND COATING AS RECOMMENDED BY COATING MANUFACTURER; PRIME SUBSTRATE AS REQUIRED BEFORE APPLICATION.
2.2. MECHANICALLY FASTEN SHEET MATERIALS TO SUBSTRATE USING FASTENERS AND FASTENER SPACING RECOMMENDED BY EIFS MANUFACTURER.
3. INSTALLATION - INSULATION
3.1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3.2. PLACE BOARDS IN A METHOD TO MAXIMIZE TIGHT JOINTS. STAGGER VERTICAL JOINTS AND INTERLOCK AT CORNERS. BUTT EDGES AND ENDS TIGHT TO ADJACENT BOARD AND TO PROTRUSIONS. ACHIEVE A CONTINUOUS FLUSH INSULATION SURFACE, WITH NO GAPS IN EXCESS OF 1/16 INCH (1.6 MM).
4. INSTALLATION - FINISH
4.1. BASE COAT: APPLY IN THICKNESS AS NECESSARY TO FULLY EMBED REINFORCING MESH, WRINKLE FREE, INCLUDING BACK-WRAP AT ALL TERMINATIONS OF THE EIFS. INSTALL REINFORCING FABRIC AS RECOMMENDED BY EIFS MANUFACTURER.

SECTION 07 2500 - WEATHER BARRIERS

- PART 1 GENERAL
*CONTRACTOR SHALL PROVIDE SINGLE SOURCE RESPONSIBILITY FOR ALL BUILDING WATERPROOFING COMPONENTS. ONE CONTRACT SHALL BE RESPONSIBLE FOR COORDINATION / INSTALLATION OF ALL COMPONENTS AFFECTING BUILDING WATER / AIR BARRIER. VERIFY COMPATIBILITY OF ALL MEMBRANE FLASHINGS AND BUILDING WRAPS W/ ADJACENT MATERIALS. DO NOT MIX ASPHALTIC AND BITUMINOUS BASED FLASHINGS / MATERIALS WITHOUT APPROPRIATE SEPARATION.
1. SUBMITTALS
1.1. PRODUCT DATA: PROVIDE DATA ON MATERIAL CHARACTERISTICS.
PART 2 PRODUCTS
1. WEATHER BARRIER ASSEMBLIES
1.1. WATER-RESISTIVE BARRIER: PROVIDE ON EXTERIOR WALLS UNDER EXTERIOR CLADDING.
1.1.1. USE BUILDING PAPER UNLESS OTHERWISE INDICATED.
1.1.2. UNDER SIDING, USE TWO SEPARATE LAYERS OF BUILDING PAPER.
1.1.3. USE PLASTIC SHEET; TYVEK COMMERCIAL WRAP OR EQUAL, UNLESS OTHERWISE INDICATED.
1.2. AIR BARRIER:
1.2.1. ON OUTSIDE SURFACE OF SHEATHING OF EXTERIOR WALLS USE AIR BARRIER SHEET PRODUCT
2. AIR BARRIER MATERIALS (WATER VAPOR PERMEABLE AND WATER-RESISTIVE)
2.1. AIR BARRIER SHEET, MECHANICALLY FASTENED:
2.1.1. AIR PERMEANCE: 0.004 CUBIC FEET PER SQUARE FOOT (0.02 LITERS PER SECOND PER SQUARE METER), MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E 2178.
2.1.2. WATER VAPOR PERMEANCE: 10 PERMS (574 NG/(PA S SQ M)), MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E96/ 96M PROCEDURE A (DESICCANT METHOD).
2.1.3. WATER PENETRATION RESISTANCE: WITHSTAND A WATER HEAD OF 21 INCHES (55 CM), MINIMUM, FOR MINIMUM OF 5 HOURS, WHEN TESTED IN ACCORDANCE WITH AATCC 127.
PART 3 EXECUTION
1. INSTALLATION
1.1. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
1.2. WATER-RESISTIVE BARRIERS: INSTALL CONTINUOUS BARRIER OVER SURFACES INDICATED, WITH SHEETS LAPPED TO SHED WATER BUT WITH SEAMS NOT SEALED.
1.3. AIR BARRIERS: INSTALL CONTINUOUS AIRTIGHT BARRIER OVER SURFACES INDICATED, WITH SEALED SEAMS AND WITH SEALED JOINTS TO ADJACENT SURFACES.
1.4. APPLY SEALANTS AND ADHESIVES WITHIN RECOMMENDED APPLICATION TEMPERATURE RANGES. CONSULT MANUFACTURER IF TEMPERATURE IS OUT OF THIS RANGE.

THE ARCHITECT/ENGINEER DOES NOT DEFINE THE SCOPE OF INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS, OR VENDORS. ANY SHEET NUMBERING SYSTEM USED WHICH IDENTIFIES DISCIPLINES IS SOLELY TO SEPARATE ARCHITECT'S AND ENGINEER'S SCOPE. IT DOES NOT DEFINE A SUBCONTRACTOR'S SCOPE OF WORK. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, CODES OR CONSTRUCTION SEQUENCING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING. NO CONSIDERATION WILL BE GIVEN TO REQUESTS FOR CHANGE ORDERS FOR FAILURE TO OBTAIN AND REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, OR FOR FAILURE TO SEEK INTERPRETATION FROM ARCHITECT FOR DISCREPANCIES.

SECTION 07 6200 - SHEET METAL FLASHING AND TRIM

- PART 1 GENERAL
*CONTRACTOR SHALL PROVIDE SINGLE SOURCE RESPONSIBILITY FOR ALL BUILDING WATERPROOFING COMPONENTS. ONE CONTRACT SHALL BE RESPONSIBLE FOR COORDINATION/INSTALLATION OF ALL COMPONENTS AFFECTING BUILDING WATER / AIR BARRIER.
PART 2 PRODUCTS
1. SHEET MATERIALS
1.1. PROVIDE MATERIAL AS APPROPRIATE FOR SYSTEM AND LOCATION RELATED TO ADJACENT MATERIALS AND FINISHES:
1.1.1. GALVANIZED STEEL: ASTM A 653/A 653M, WITH G90/Z275 ZINC COATING; MINIMUM 0.02 INCH (0.6 MM) THICK BASE METAL.
1.1.2. PRE-FINISHED GALVANIZED STEEL: ASTM A 653/A 653M, WITH G90/Z275 ZINC COATING; MINIMUM 0.02 INCH (0.6 MM) THICK BASE METAL. SHOP PRE-COATED WITH PVDF COATING.
1.1.3. ALUMINUM: ASTM B 209 (ASTM B 209M) [C-1], 0.032 INCH (0.8 MM) THICK; ANODIZED FINISH OF COLOR AS SELECTED.
1.1.4. PRE-FINISHED ALUMINUM: ASTM B 209 (ASTM B 209M) [C-1], 0.032 INCH (0.8 MM) THICK; AN FINISH SHOP PRE-COATED WITH MODIFIED SILICONE COATING.
1.1.5. LEAD: ASTM B 749, 2.5 LB/SQ FT (0.99 MM) THICK.
1.1.6. STAINLESS STEEL: ASTM A 666 TYPE 304, SOFT TEMPER, 0.015 INCH (0.4 MM) THICK, SMOOTH, NO. 4 FINISH.
1.1.7. TERNE COATED STEEL: 0.015 INCH (0.4 MM) THICK C CENTERLINE GUTTER. TERNE COATING MATERIAL WITH 0.092 LB/SQ FT (0.45 KG/SQ M) TERNE ALLOY COATING ON BOTH SIDES OF CORE METAL.
1.1.8. COPPER: ASTM B370, COLD ROLLED 16 OZ./SQ FT (0.51 MM) THICK, NATURAL FINISH.
1.1.9. LEAD COATED COPPER: ASTM B 101, # 173, 16 OUNCE WEIGHT SQUARE COPPER, HOO (COLD-ROLLED) TEMPER.
1.1.10. TERNE COATED STAINLESS STEEL: 0.015 INCH (0.4 MM) THICK, A666 TYPE 304 CORE MATERIAL WITH 0.092 LB/SQ FT (0.45 KG/SQ M) TERNE ALLOY COATING ON BOTH SIDES OF CORE METAL.
2. ACCESSORIES
2.1. FASTENERS: GALVANIZED STEEL WITH SOFT NECH NUTS, WASHERS.
2.2. UNDERLAYMENT: TYPE 226, ORGANIC COATING FELT, TYPE 1 ("NO. 15").
2.3. SLIP SHEET: 30 LBS PER 1000 BUILDING PAPER.
3. FABRICATION
3.1. FABRICATIONS SHALL BE TO SHAPE, ACCURATE IN SIZE, SQUARE, AND FREE FROM DISTORTION OR DEFECTS.
3.1.1. FORM JOINTS IN LAPPED JOINTS POSSIBLE LENGTHS.
3.1.2. FORM METAL FLASHING WITH FLAT LOCK SEAMS, EXCEPT WHERE OTHERWISE INDICATED. AT MOVING JOINTS, USE SEALED LAPPED COMPONENTS OR INTERLOCKING HOOKED SEAMS.
4. GUTTERS AND DOWNSPOUT FABRICATION
4.1. GUTTERS: SMACNA ARCHITECTURAL SHEET METAL MANUAL, RECTANGULAR PROFILE.
4.1.1. DOWNSPOUTS: RECTANGULAR PROFILE.
4.3. GUTTERS AND DOWNSPOUTS: SIZE FOR RAINFALL INTENSITY DETERMINED BY A STORM OCCURRENCE OF 1 IN 5 YEARS IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL. SIZE AS INDICATED ON CONTRACT DRAWINGS.

SECTION 07 9005 - JOINT SEALERS

- PART 1 GENERAL
PART 2 PRODUCTS
1. SEALANTS
1.1. SEALANTS AND PRIMERS - GENERAL: PROVIDE ONLY PRODUCTS HAVING LOWER VOLATILE ORGANIC COMPOUND (VOC) CONTENT THAN REQUIRED BY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE NO. 1168.
1.2. GENERAL PURPOSE EXTERIOR SEALANT: POLYURETHANE; ASTM C 920, GRADE NS, CLASS 25, USES M, G, AND A; SINGLE COMPONENT.
1.3. EXTERIOR EXPANSION JOINT SEALER: ASTM D 2628, HOLLOW NEOPRENE (POLYCHLOROPRENE) COMPRESSION GASKET.
1.4. EXTERIOR METAL LAP JOINT SEALANT: BUTYL OR POLYISOBUTYLENE, NONDRYING, NONSKINNING, NONCURING, PAINTABLE.
1.6. BATHUB/TILE SEALANT: WHITE SILICONE; ASTM C 920, USES 1, M AND A; SINGLE COMPONENT, MILDEW RESISTANT.
1.7. ACOUSTICAL SEALANT FOR CONCEALED LOCATIONS: PERMANENTLY TACKY NON-HARDENING BUTYL SEALANT.
1.8. INTERIOR FLOOR JOINT SEALANT: POLYURETHANE, SELF-LEVELING; ASTM C 920, GRADE P, CLASS 25, USES T, I, M AND A; SINGLE COMPONENT.
1.9. CONCRETE PAVING JOINT SEALANT: POLYURETHANE, SELF-LEVELING; ASTM C 920, CLASS 25, USES T, I, M AND A; SINGLE COMPONENT.
1.10. SILICONE SEALANT: ASTM C 920, GRADE NS, CLASS 25, USES NT, A, G, M, G; SINGLE COMPONENT, SOLVENT CURING, NON-SAGGING, NON-STAINING, FUNGUS RESISTANT, NON-BLEEDING.
2. ACCESSORIES
2.1. JOINT BACKING: ROUND FOAM ROD COMPATIBLE WITH SEALANT; ASTM D 1667, CLOSED CELL PVC; OVERSIZED 30 TO 50 PERCENT LARGER THAN JOINT WIDTH.
2.2. BOND BREAKER: PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.
PART 3 EXECUTION
1. INSTALLATION
1.1. PERFORM WORK IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS FOR PREPARATION OF SURFACES AND MATERIAL INSTALLATION INSTRUCTIONS.
1.2. PERFORM INSTALLATION IN ACCORDANCE WITH ASTM C 1193.
1.3. PERFORM ACOUSTICAL SEALANT APPLICATION WORK IN ACCORDANCE WITH ASTM C 919.
1.4. TOOL JOINTS CONCAVE.
1.5. PRECOMPRESSED FOAM SEALANT: DO NOT STRETCH; AVOID JOINTS EXCEPT AT CORNERS, ENDS, AND INTERSECTIONS; INSTALL WITH FACE 1/8 TO 1/4 INCH (3 TO 6 MM) BELOW ADJOINING SURFACE.
1.6. COMPRESSION GASKETS: AVOID JOINTS EXCEPT AT ENDS, CORNERS, AND INTERSECTIONS; SEAL ALL JOINTS WITH ADHESIVE; INSTALL WITH FACE 1/8 TO 1/4 INCH (3 TO 6 MM) BELOW ADJOINING SURFACE.

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STRICKLAND BROTHERS
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GRAHAM, NC



ISSUE DATE: 6/5/20
REVISION 1:
REVISION 2:
REVISION 3:
REVISION 4:
PROJECT #: 20-127
CONTENT: ARCHITECTURAL SPECIFICATIONS
PROJECT ARCHITECT: ECE
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