

22 SHEATHING

A. WOOD SHEATHING

1. ALL WOOD SHEATHING SHALL BE MANUFACTURED BY A MEMBER COMPANY OF APA - THE ENGINEERED WOOD ASSOCIATION, AND EACH PANEL SHALL BEAR THE APA TRADEMARK INDICATING ITS UNIQUE MATERIAL PROPERTIES. ALL PLYWOOD USED ON EXTERIOR SURFACES SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF VOLUNTARY PRODUCT STANDARD PS-1 (STRUCTURAL PLYWOOD); BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST). ALL OTHER WOOD SHEATHING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF VOLUNTARY PRODUCT STANDARD PS-2, "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS," BY NIST.

2. WHERE EXPOSURE RATINGS OR SPAN RATINGS IS NOT GIVEN IN THE CONTRACT DRAWINGS, PROVIDE EXPOSURE 1 AND RATINGS REQUIRED TO SUT SUPPORT MEMBER SPACINGS INDICATED ON DRAWINGS.

3. PROVIDE PANELS WITH TONGUE AND GROOVE EDGES WHERE SPECIFIED IN THE CONTRACT DRAWINGS.

4. EXTERIOR WOOD SHEATHING: PANELS SHALL BE EXPOSURE 1 WITH THICKNESS AS SPECIFIED IN THE CONTRACT DRAWINGS.

5. ROOFS AND OTHER EXTERIOR HORIZONTAL OR SLOPED SURFACES: 5-PLY PLYWOOD WITH GRADE AND SPAN RATINGS AS SPECIFIED IN THE CONTRACT DRAWINGS. WHERE MULTIPLE LAYERS OF PLYWOOD NO THICKER THAN 3/8 INCH ARE USED TO SHEATH CURVED SURFACES, PANELS SHALL BE MINIMUM 3-PLY.

6. WALLS: STRUCTURAL-USE WALL PANELS COVERED IN VOLUNTARY PRODUCT STANDARD PS 2.

7. SHEATHING TO BE TREATED WITH PRESERVATIVE OR FIRE-RETARDANT CHEMICALS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 25 "WOOD TREATMENT," AND SHALL BE USED ONLY WHERE SPECIFIED IN THE CONTRACT DRAWINGS.

8. WATER-RESISTANT CORE GYPSUM SHEATHING BOARD, ASTM C174, THICKNESS AS INDICATED ON DRAWINGS, 24 OR 48 INCH WIDTH, MAXIMUM PERMISSIBLE LENGTH, ENDS STRAIGHT AND SOLID, EDGES SQUARE. WATER-RESISTANT CORE GYPSUM SHEATHING TO HAVE A WATER-RESISTANT MATERIAL INCORPORATED IN THE CORE. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

1. GENTEX AMERICAN GYPSUM SHEATHING; GENTEX AMERICAN GYPSUM CO.
2. HYPOC GYPSUM SHEATHING; DOMSTAR GYPSUM CO.
3. 15-P GYPSUM SHEATHING; GEORGIA-PACIFIC CORP.
4. GOLD BOND GYPSUM SHEATHING; GOLD BOND BUILDING PRODUCTS DIV., NATIONAL GYPSUM CO.
5. 156 GYPSUM SHEATHING; UNITED STATES GYPSUM CO.

23 ACCESSORIES

A. FASTENERS: PROVIDE MANUFACTURERS RECOMMENDED POWER TOOLS FOR EACH TYPE OF FASTENER.

1. NAILS, SPIKES AND STAPLES: ASTM A28, GALVANIZED FOR EXTERIOR LOCATIONS, HIGH HUMIDITY AREAS, AND TREATED WOOD. PLAN FINISH FOR OTHER INTERIOR LOCATIONS, SIZE AND TYPE TO SUT APPLICATION, UNLESS OTHERWISE NOTED.

2. BOLTS, NUTS, WASHERS, LAG SCREWS, AND WOOD SCREWS: ASTM A307, MEDIUM CARBON STEEL, SIZE AND TYPE TO SUT APPLICATION, GALVANIZED FOR EXTERIOR LOCATIONS, HIGH HUMIDITY AREAS, AND TREATED WOOD. PLAN FINISH FOR OTHER INTERIOR LOCATIONS, OF SIZE AND TYPE TO SUT APPLICATION, UNLESS OTHERWISE NOTED.

3. EXPANSION SHIELD FASTENERS: FOR ANCHORAGE OF NON-STRUCTURAL ITEMS TO SOLID MASONRY AND CONCRETE.

4. POWDER OR PNEUMATICALLY ACTIVATED FASTENERS: FOR ANCHORAGE OF NON-STRUCTURAL ITEMS TO STEEL.

B. ROOF SHEATHING FASTENERS: GALVANIZED FOR EXTERIOR, HIGH HUMIDITY, AND TREATED WOOD LOCATIONS. PLAN FINISH ELSEWHERE, SIZE AND TYPE TO SUT CONDITION UNLESS OTHERWISE NOTED ON CONTRACT DOCUMENTS.

24 WOOD TREATMENT

A. PRESERVATIVE PRESURE-TREATED LUMBER

1. MANUFACTURERS: A. TREATED PRESURE-TREATED WOOD; HOLMAN CGA TYPE C, BY HOLCON CORPORATION, ATLANTA, GA, (404) 804-6600.

2. CGA PRESURE TREATED LUMBER TYPE C, BY HOOVER TREATED WOOD PRODUCTS INC., THOMSON, GA, (800) 882-4668.

3. MERGATE LUMBER WITH PRESERVATIVE TREATMENT CONFORMING TO ANPA STANDARD Q1 AND PS, APPLY THE PRESERVATIVE IN A CLOSED CYLINDER BY PRESSURE PROCESS IN ACCORDANCE WITH ANPA STANDARD C8.

4. RETENTION OF DRY SALTS.

5. MODERATE SERVICE CONDITIONS (WEATHER EXPOSURE): 0.25 POUNDS PER CUBIC FOOT (OXIDE BASE).

6. SEVERE CONDITIONS (CONSTANT CONTACT WITH GROUND OR WATER): 0.40 POUNDS PER CUBIC FOOT (OXIDE BASE).

7. REMOVE EXCESS MOISTURE: WHERE SHINKAGE IS A SERIOUS FAULT OR WHERE TREATED LUMBER WILL BE IN CONTACT WITH PLASTER, OR EPS AND WHERE WATER-BORNE TREATED LUMBER IS TO BE PAINTED OR STAINED.

8. LUMBER SHALL BE DRIED TO 5-8 PERCENT MOISTURE CONTENT AFTER TREATMENT, AND MATERIAL TO BE PAINTED OR STAINED SHALL HAVE KNOTS AND PITCH STREAKS SEALED AS WITH UNTREATED WOOD.

9. LIBERALLY BRUSH FRESHLY CUT SURFACES, BOLT HOLES AND MACHINED AREAS WITH THE SAME PRESERVATIVE IN ACCORDANCE WITH ANPA STANDARD M4.

B. WOOD REQUIRING PRESURE-TREATMENT

1. LUMBER, PRESERVATIVE TREATED: NAILS, BLOCKING, STRIPPING, AND SIMILAR ITEMS IN CONNECTION WITH ROOFING, FLASHING, AND OTHER CONSTRUCTION. SILL PLATES, BLOCKING, FURRING, STRIPPING, SLEEPERS AND SIMILAR ITEMS IN CONTACT WITH CONCRETE.

C. FIRE-RETARDANT TREATED LUMBER

1. MANUFACTURERS: A. DRICON FIRE RETARDANT TREATED WOOD, BY ARCH WOOD PROTECTION INC., SMITHDA, GEORGIA, (666) 878-3784.

2. WOOD REQUIRING FIRE RETARDANT TREATMENT

1. DIMENSION LUMBER OR PANELS ONLY AS SPECIFIED IN THE CONTRACT DRAWINGS.

PART 3 EXECUTION

31 EXAMINATION

A. EXAMINE AREAS TO RECEIVE ROUGH CARPENTRY WORK AND VERIFY FOLLOWING:

1. THAT INSTALLATION OF BUILDING COMPONENTS TO RECEIVE ROUGH CARPENTRY WORK IS COMPLETE.
2. THAT SURFACE AREAS ARE SATISFACTORY TO RECEIVE WORK.
3. THAT SPACING, DIRECTION AND DETAILS OF SUPPORTS ARE CORRECT TO ACCOMMODATE INSTALLATION OF BLOCKING, BACKING, STRIPPING, FURRING AND NAILING STRIPS.

32 SITE TREATMENT OF WOOD MATERIALS

A. RETREAT SITE SAWN ENDS WITH BRUSH APPLICATION ACCORDING TO MANUFACTURERS INSTRUCTIONS. ALLOW PRESERVATIVE TO CURE PRIOR TO PLACING MEMBERS.

33 INSTALLATION

A. INSTALL MISCELLANEOUS BLOCKING, NAILING STRIPS, FRAMING, AND SHEATHING AS DETAILED ON DRAWINGS. COORDINATE TO ALLOW PROPER ATTACHMENT OF WORK OF OTHER SECTIONS.

1. SECURE WOOD BLOCKING, CANTS, NAILERS, IN PLACE USING FASTENERS SPECIFIED. USE ONLY RECOMMENDED POWER TOOLS FOR PLACEMENT OF FASTENERS.

2. RECESS HEADS OF FASTENERS BELOW SURFACE OF WOOD MEMBERS.

B. INSTALL MEMBERS TRUE TO LINE, PLUMB, AND LEVEL.

C. SECURE IN PLACE WITH APPROPRIATE FASTENERS. USE FASTENERS OF CORRECT SIZE THAT WILL NOT PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VENT OR REQUIRE FINISHING. DO NOT SPILT WOOD WITH FASTENERS; SET PANEL PRODUCTS TO ALLOW EXPANSION AT JOINTS.

D. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS.

E. CONSTRUCT MEMBERS OF CONTINUOUS PIECES OF LONGEST POSSIBLE LENGTHS.

F. PLACE PLYWOOD ROOF SHEATHING AS SHOWN ON DRAWINGS. SECURE SHEETS OVER FRIED BEARING. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ALLOW 1/8 INCH SPACING AT PANEL ENDS AND PANEL EDGES UNLESS OTHERWISE RECOMMENDED BY PANEL MANUFACTURER.

34 FIELD QUALITY CONTROL

A. SECTION 0400 - QUALITY CONTROL: PROCEDURES FOR INSPECTION OF WORK

B. FRAMING INSPECTION: 1. INSPECT WOOD FRAMING INSTALLATION AND CONNECTIONS AT COMPLETION OF EACH PHASE OF WOOD CONSTRUCTION FOR CORRECT INSTALLATION, NAILING, CONNECTIONS, AND FASTENERS.

2. INSPECT AND VERIFY THAT TYPES AND SPACING OF FASTENERS ARE INSTALLED IN LOCATIONS SPECIFIED OR INDICATED ON DRAWINGS.

3. INSPECT TYPES, LOCATIONS, AND FASTENERS FOR STRUCTURAL METAL FRAMING CONNECTORS.

4. INSPECT WOOD TO STEEL BEAM CONNECTIONS.

C. CORRECT DEFICIENCIES IN WORK IF INSPECTION INDICATES WORK IS NOT IN COMPLIANCE WITH CONTRACT DOCUMENTS.

SECTION 06200 - FINISH CARPENTRY

B. DESCRIPTION OF SYSTEMS

SEE "RESPONSIBILITY SCHEDULE" FOR ITEMS FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR (FOC).

C. CODES AND STANDARDS

AM, QUALITY-STANDARDS AND GUIDE SPECIFICATIONS MANUAL.

D. ROUGH LUMBER AND PLYWOOD

LUMBER HAVING MODULUS OF ELASTICITY OF NOT LESS THAN 1600000 PSI AND ALLOWABLE FIBER STRESS OF MORE THAN 4000 PSI, IN STANDARD DIMENSIONS, MOISTURE CONTENT NOT MORE THAN 19%, FIRE TREATMENT OF ALL ROUGH LUMBER AND PLYWOOD IS AS FOLLOWS:

1. ROUGH LUMBER TREATED WITH PRESSURE FIRE RETARDANT PER AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD ANPA C20, EACH PIECE TO BEAR UL LABEL, TR-S.

2. PLYWOOD TREATED WITH PRESSURE FIRE RETARDANT PER AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD ANPA C21, EACH PIECE TO BEAR UL LABEL, CLASS 1 PLYWOOD CONCEALED FROM VENT ONLY.

D. FINISHED LUMBER

1. INTERIOR STAIN GRADE WOOD: POPLAR, CONFORM TO AM QUALITY STANDARDS, TECHNOLOGY GRADE, AM GRADE 1.

2. MOISTURE CONTENT, KLN DRIED, NOT MORE THAN 9% WHEN DELIVERED.

3. FLAME SPREAD RATINGS AS NOTED ON DRAWINGS OR AS REQUIRED BY CODE.

E. PLYWOOD

1. PLANT GRADE PLYWOOD GROUP 1, GRADE A-C EXTERIOR PLYWOOD.

2. FLAME SPREAD RATINGS AS NOTED ON DRAWINGS OR AS REQUIRED BY CODE.

F. PARTICLE BOARD

1. INDUSTRIAL GRADE PARTICLE BOARD, 40-45 LB. DENSITY WESTERN GRADE PREFERRED.

G. INSTALLATION

1. INSTALL ALL MATERIAL WITH TIGHT JOINTS.

2. EDGE ALL EXTERNAL CORNERS.

3. ALL RUNNING TRIM ONE PIECE UP TO 10'-0". MATCH GRAIN AND COLOR PIECE TO PIECE.

4. USE FINH NAILS EXCEPT WHERE SCREWS INDICATED. SET FASTENERS FLUSH FOR PUTTY APPLICATION.

SECTION 06400 - ARCHITECTURAL WOODWORK

A. ALL WORK IS TO BE PERFORMED IN COMPLIANCE WITH "ARCHITECTURAL WOODWORK QUALITY STANDARDS, GUIDE SPECIFICATIONS AND QUALITY CERTIFICATION PROGRAM" CUSTOM GRADE, AS PUBLISHED BY THE ARCHITECTURAL WOODWORK INSTITUTE. ANY QUESTIONS CONCERNING APPLICATION OF THESE STANDARDS SHALL BE REFERRED TO THE ARCHITECT.

B. GC, TO PROVIDE AND INSTALL WOODWORK AS INDICATED ON THE PLANS.

SECTION - 07200 - THERMAL AND MOISTURE PROTECTION

A. MATERIALS

1. R-4 THERMAL BATT INSULATION: PREFORMED GLASS FIBER BATT WITH FSK-25 REFLECTIVE MEMBRANE ON ONE SIDE.

2. TAPES TO MATCH FOIL SORM KRAFT FACE, 2 INCH WIDTH.

3. R-10 RSD PERIMETER INSULATION UNDER SLABS ON GRADE.

B. INSTALLATION

1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND AS INDICATED.

2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VIDS.

3. INSTALLATION OF THERMAL BATT INSULATION

3.1. INSTALL INSULATION WITH VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES. VAPOR BARRIER SHALL BE CONTINUOUS. TAPE SEAL TEARS OR CUTS IN VAPOR BARRIER.

3.2. PACK BATT INSULATION IN SHM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.

3.3. MECHANICAL FASTENING

3.3.1. AT LOCATIONS WHERE NO FRAMING IS PRESENT TO SUPPORT THE INSULATION, PROVIDE METAL INFALING PINS AND RETAINERS TO HOLD THE INSULATION FIRMLY IN PLACE.

3.3.2. MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

3.3.3. SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BLANKET. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.

4. INSTALLATION OF RSD PERIMETER INSULATION: INSTALL INSULATION FROM TOP OF FOOTING TO UNDERSIDE OF SLAB AND BENEATH THE SLAB HORIZONTALLY 24" FROM THE INTERIOR FACE OF THE FOOTING.

C. R-VALUE SCHEDULES

1. PROVIDE INSULATION IN SUFFICIENT THICKNESS TO PROVIDE THE FOLLOWING R-VALUES:

II. VERTICAL ASSEMBLIES WITH HORIZONTAL HEAT FLOW: R205.

12. THE ABOVE R-VALUES ARE REQUIRED FOR THE TOTAL INSULATION IN THE ASSEMBLY. THE BATT INSULATION MAY BE COMBINED WITH OTHER INSULATION IN THE ASSEMBLY TO OBTAIN THE TOTAL R-VALUE REQUIRED. THE R-VALUE IS FOR THE INSULATION ONLY AND MAY NOT INCLUDE AIR FILM VALUES, AND R-VALUES FOR OTHER MATERIALS IN THE ASSEMBLY SUCH AS CONCRETE AND GYPSUM BOARD.

2. THE PERIMETER RSD INSULATION SHALL BE OF R-VALUE 10.

SECTION 07240 - EXTERIOR INSULATION AND FINISH SYSTEMS - CLASS PB

II. GENERAL

A. DEFINITIONS: SYSTEMS REFER TO CLASS PB EXTERIOR INSULATION AND FINISH SYSTEM (EPS) THAT IS DEFINED BY ASTM PS 44 AS A NONLOAD BEARING, EXTERIOR WALL CLADDING SYSTEM THAT CONSISTS OF AN INSULATION BOARD ATTACHED EITHER ADHESIVELY, MECHANICALLY, OR BOTH TO THE SUBSTRATE, AN INTERNALLY REINFORCED BASE COAT, AND A TEXTURE PROTECTIVE FINISH COAT. SYSTEM MANUFACTURER REFERS TO EPS MANUFACTURER.

B. THIS SECTION COVERS APPLICATIONS OVER PROPRIETARY PLAYWOOD SHEATHING.

C. PHYSICAL PROPERTIES: EPS COMPLYING WITH PERFORMANCE CHARACTERISTICS IN "BMA GUIDELINE SPECIFICATION FOR EXTERIOR INSULATION AND FINISH SYSTEMS, CLASS PB," INCLUDING WIND LOAD PER ASTM E 330 AS INDICATED AND IMPACT CLASSIFICATION AND RANGE PER BMA 1026 AS FOLLOWS.

3. MEDIUM IMPACT RESISTANCE: 50-84 INCH-LB.

4. HIGH IMPACT RESISTANCE: 10-60 INCH-LB (0.21 J).

5. ULTRA-HIGH IMPACT RESISTANCE: MORE THAN 80 INCH-LB (1 J).

6. STANDARD IMPACT RESISTANCE: 25-44 INCH-LB.

7. MEDIUM IMPACT RESISTANCE: 50-84 INCH-LB.

8. HIGH IMPACT RESISTANCE: 10-60 INCH-LB (0.21 J).

9. ULTRA-HIGH IMPACT RESISTANCE: MORE THAN 80 INCH-LB (1 J).

10. STANDARD IMPACT RESISTANCE: 25-44 INCH-LB.

11. MEDIUM IMPACT RESISTANCE: 50-84 INCH-LB.

12. HIGH IMPACT RESISTANCE: 10-60 INCH-LB (0.21 J).

13. ULTRA-HIGH IMPACT RESISTANCE: MORE THAN 80 INCH-LB (1 J).

14. STANDARD IMPACT RESISTANCE: 25-44 INCH-LB.

15. MEDIUM IMPACT RESISTANCE: 50-84 INCH-LB.

16. HIGH IMPACT RESISTANCE: 10-60 INCH-LB (0.21 J).

17. ULTRA-HIGH IMPACT RESISTANCE: MORE THAN 80 INCH-LB (1 J).

18. STANDARD IMPACT RESISTANCE: 25-44 INCH-LB.

19. MEDIUM IMPACT RESISTANCE: 50-84 INCH-LB.

20. HIGH IMPACT RESISTANCE: 10-60 INCH-LB (0.21 J).

21. ULTRA-HIGH IMPACT RESISTANCE: MORE THAN 80 INCH-LB (1 J).

22. STANDARD IMPACT RESISTANCE: 25-44 INCH-LB.

23. MEDIUM IMPACT RESISTANCE: 50-84 INCH-LB.

24. HIGH IMPACT RESISTANCE: 10-60 INCH-LB (0.21 J).

25. ULTRA-HIGH IMPACT RESISTANCE: MORE THAN 80 INCH-LB (1 J).

26. STANDARD IMPACT RESISTANCE: 25-44 INCH-LB.

27. MEDIUM IMPACT RESISTANCE: 50-84 INCH-LB.

28. HIGH IMPACT RESISTANCE: 10-60 INCH-LB (0.21 J).

29. ULTRA-HIGH IMPACT RESISTANCE: MORE THAN 80 INCH-LB (1 J).

B. EPS INDUSTRY MEMBERS ASSOCIATION STANDARDS AND PUBLICATIONS

1. 1026 - STANDARD TEST METHOD FOR FREEZE-THAW RESISTANCE OF EXTERIOR INSULATION FINISHING SYSTEMS (EPS), CLASS PB (MODIFIED ASTM C-671).

2. 1002 - STANDARD TEST METHOD FOR RESISTANCE TO WATER PENETRATION OF EXTERIOR INSULATION FINISHING SYSTEMS (EPS), CLASS PB (MODIFIED ASTM E 330).

3. 1008 - STANDARD TEST METHOD FOR DETERMINING TENSILE ADHESION STRENGTH OF EXTERIOR INSULATION FINISHING SYSTEMS (EPS), CLASS PB (MODIFIED ASTM C-271).

4. 1026 - STANDARD TEST METHOD FOR RESISTANCE OF EXTERIOR INSULATION FINISHING SYSTEMS (EPS) TO THE EFFECTS OF RAPID DEFORMATION (IMPACT).

5. 10501 - STANDARD TEST METHOD FOR ALKALI RESISTANCE OF GLASS FIBER REINFORCING MESH FOR USE IN EXTERIOR INSULATION FINISHING SYSTEMS.

6. 10001 - STANDARD TEST METHOD FOR DETERMINING TENSILE ADHESION PROPERTIES OF SEALANTS WHEN USED WITH EXTERIOR INSULATION FINISHING SYSTEMS.

7. BMA GUIDE FOR USE OF SEALANTS WITH EXTERIOR INSULATION FINISHING SYSTEMS.

8. BMA GUIDELINE SPECIFICATION FOR EXTERIOR INSULATION FINISHING SYSTEMS.

II. QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: FIRM WITH MINIMUM 5 YEARS EXPERIENCE IN MANUFACTURING SYSTEMS SIMILAR TO THOSE INDICATED FOR THIS PROJECT AND THAT HAVE A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, WHO IS A CURRENT MEMBER OF THE BMA.

B. INSTALLER QUALIFICATIONS: EXPERIENCED INSTALLER WHO IS CERTIFIED IN WRITING BY SYSTEM MANUFACTURER AS QUALIFIED TO INSTALL MANUFACTURERS SYSTEM.

C. SINGLE SOURCE RESPONSIBILITY: OBTAIN MATERIALS FOR A SYSTEM FROM ONE SOURCE AND BY A SINGLE MANUFACTURER, OR BY MANUFACTURERS APPROVED BY THE SYSTEM MANUFACTURER AS COMPATIBLE WITH OTHER SYSTEM COMPONENTS.

D. PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE WITH PARTIES ASSOCIATED WITH THE WORK.

12. COORDINATION AND STORAGE

A. ENVIRONMENTAL CONDITIONS: DO NOT INSTALL SYSTEM WHEN AMBIENT OUTDOOR AIR AND SUBSTRATE TEMPERATURES ARE 40 DEGREES F AND FALLING UNLESS TEMPORARY PROTECTION AND HEAT ARE PROVIDED TO MAINTAIN AMBIENT TEMPERATURES ABOVE 40 DEGREES F DURING THE INSTALLATION OF NET MATERIALS AND UNTIL THEY HAVE DRIED THOROUGHLY AND BECOME WEATHER RESISTANT, BUT NOT LESS THAN 24 HOURS AFTER INSTALLATION.

B. PROVIDE PROTECTION OF SURROUNDING AREAS AND ADJACENT CONSTRUCTION.

C. COORDINATE INSTALLATION OF SYSTEM WITH RELATED UNITS OF WORK SPECIFIED IN OTHER SECTIONS TO ENSURE THAT WALL ASSEMBLIES, INCLUDING SHEATHING, FLASHING, TRIM AND JOINT SEALERS ARE PROTECTED AGAINST DAMAGE FROM AFFECTS OF WEATHER, AGE, CORROSION AND OTHER CAUSES.

B. WARRANTY

A. GENERAL WARRANTY: THE SPECIAL WARRANTY SUBMITTED UNDER THIS SECTION SHALL NOT DEPRIVE THE OWNER OF OTHER RIGHTS AND REMEDIES THAT THE OWNER MAY HAVE UNDER OTHER PROVISIONS OF THE CONTRACT DOCUMENTS AND IS IN ADDITION TO AND RUNS CONJUNCTLY WITH OTHER WARRANTIES MADE BY THE CONTRACTOR UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.

B. SPECIAL WARRANTY: SUBMIT A WRITTEN WARRANTY SIGNED BY AUTHORIZED REPRESENTATIVES OF THE MANUFACTURER AND INSTALLER WARRANTING THAT PORTIONS OF THE WORK INVOLVING EXTERIOR INSULATION AND FINISHING SYSTEM IS OF GOOD QUALITY, FREE FROM DEFECTS AND IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND FURTHER PROMISES TO REPAIR OR REPLACE DEFECTIVE WORK DURING A 1 YEAR PERIOD FOLLOWING COMPLETION OF THAT PORTION OF THE WORK.

C. DEFECTIVE IS DEFINED TO INCLUDE THE FOLLOWING:

1. STRUCTURAL FAILURES INCLUDING, BUT NOT LIMITED TO EXCESSIVE DEFLECTION.

2. NOISE OR VIBRATION CAUSED BY THERMAL MOVEMENTS.

3. FAILURE OF SYSTEM TO MEET PERFORMANCE REQUIREMENTS.

4. DETEIORATION OF FINISHES AND OTHER MATERIALS BEYOND NORMAL WEATHERING.

5. WATER LEAKAGE.

6. PERFORMANCE REQUIREMENTS

7. PROVIDE SYSTEMS THAT COMPLY WITH THE FOLLOWING PERFORMANCE REQUIREMENTS:

1. BOND INTEGRITY: FREE FROM BOND FAILURE WITHIN SYSTEM COMPONENTS OR BETWEEN SYSTEM AND SUPPORTING WALL CONSTRUCTION, RESULTING FROM EXPOSURE TO FIRE, WIND LOADS, HEATHER, OR OTHER IN-SERVICE CONDITIONS.

2. WEATHERTIGHTNESS: RESISTANT TO WATER PENETRATION FROM EXTERIOR INTO SYSTEM ASSEMBLIES BEHIND IT OR THROUGH THEM INTO INTERIOR OF BUILDING THAT RESULTS IN DETEIORATION OF THERMAL INSULATING EFFECTIVENESS OR OTHER DETEIORATION OF SYSTEM AND ASSEMBLIES BEHIND SYSTEM INCLUDING SUBSTRATES, SUPPORTING WALL, CONSTRUCTION, AND INTERIOR FINISH.

3. PHYSICAL PROPERTIES: PROVIDE EXTERIOR FINISH AND INSULATION SYSTEMS WHOSE PHYSICAL PROPERTIES AND STRUCTURAL PERFORMANCE COMPLY WITH THE FOLLOWING REQUIREMENTS WHEN TESTED PER METHOD REFERENCED.

4. ACCELERATED WEATHERING CHARACTERISTICS: SAMPLE OF SIZE SUITABLE FOR TEST EQUIPMENT AND CONSISTING OF 1 INCH THICK EXTERIOR INSULATION SYSTEM MOUNTED ON 1 INCH THICK GYPSUM BOARD, CURED FOR 28 DAYS, SHOWS NO WATER PENETRATION INTO THE PLANE OF THE INTERIOR FACE OF THE TEST SPECIMEN UNDER 226 PSF OF AIR PRESSURE DIFFERENCE ACROSS THE SPECIMEN DURING A 5 MINUTE TEST PERIOD WHEN TESTED PER ASTM E 330.

5. WATER PENETRATION: SAMPLE CONSISTING OF 1 INCH THICK EXTERIOR INSULATION AND FINISH SYSTEM MOUNTED ON 1 INCH THICK GYPSUM BOARD, CURED FOR 28 DAYS, SHOWS NO WATER PENETRATION INTO THE PLANE OF THE INTERIOR FACE OF THE TEST SPECIMEN UNDER 226 PSF OF AIR PRESSURE DIFFERENCE ACROSS THE SPECIMEN DURING A 5 MINUTE TEST PERIOD WHEN TESTED PER ASTM E 330.

6. THERMAL RESISTANCE: MINIMUM R-40 AT 40 DEGREES F, 36 AT 75 DEGREES F WHEN TESTED IN ACCORDANCE WITH ASTM C 388.

7. PROVIDE SHAPES AND DENSITIES REQUIRED TO MAINTAIN SPECIAL SHAPES, IF REQUIRED.

8. REINFORCING MESH: BALANCED, ALKALI-RESISTANT, OPEN-WEAVE GLASS-FIBER MESH TREATED FOR COMPATIBILITY WITH OTHER SYSTEM MATERIALS, MADE FROM CONTINUOUS MULTISTRANDED WITH RETAINED MESH TENSILE STRENGTH OF NOT LESS THAN 145 LBF/IN, AND 50 LBS IN WARP AND FILL DIRECTIONS PER ASTM D 5033, COMPLYING WITH ASTM D 519 AND THE FOLLOWING REQUIREMENTS FOR MINIMUM WEIGHT:

1. STANDARD REINFORCING MESH: NOT LESS THAN 0.4 OZ/SQ. YD. (36 G/SQ. M).

2. DETAIL REINFORCING MESH: NOT LESS THAN 0.4 OZ/SQ. YD. (36 G/SQ. M).

3. CORNER REINFORCING MESH: NOT LESS THAN 12 OZ/SQ. YD. (244 G/SQ. M).

4. BASE-COAT MATERIALS: SYSTEM MANUFACTURERS STANDARD MIXTURE COMPLYING WITH THE FOLLOWING REQUIREMENTS:

1. FACTORY-MIXED FORMULATION OF POLYMER-EMULSION ADHESIVE AND FIBER FILLERS THAT IS READY TO USE WITHOUT ADDING OTHER MATERIALS.

2. PRIMER: SYSTEM MANUFACTURERS STANDARD FACTORY-MIXED ELASTOMERIC-POLYMER PRIMER FOR PREPARING BASE-COAT SURFACE FOR APPLICATION OF FINISH COAT.

3. FINISH-COAT MATERIALS: SYSTEM MANUFACTURERS STANDARD FACTORY-MIXED FORMULATION OF POLYMER-EMULSION BINDER, COLORFAST MINERAL PIGMENTS, SOUND STONE PARTICLES, AND FILLERS AND SLOICNE ENHANCED FINISH.

4. WATER: POTABLE.

5. JOINT TAPES: OPEN WEAVE, SELF ADHESIVE, FIBERGLASS MESH, MINIMUM 4 INCHES WIDE.

6. FLASHING/TERMINATION TAPES: HIGH DENSITY RUBBERIZED ASPHALT/POLYETHYLENE, SELF ADHESIVE MEMBRANE, MINIMUM 4 INCHES WIDE.

7. ELASTOMERIC SEALANTS: LISTED AND RECOMMENDED BY SYSTEM MANUFACTURER, COMPATIBLE WITH JOINT FILLERS, JOINT SUBSTRATES, AND PRIMER AS REQUIRED AND SUPPLIED BY THE SEALANT MANUFACTURER FOR SURFACES AND MATERIALS, AND COMPLYING WITH REQUIREMENTS IN "BMA GUIDE FOR USE OF SEALANTS WITH EXTERIOR INSULATION AND FINISH SYSTEMS, CLASS PB" AND IN DIVISION 7 SECTION "JOINT SEALANTS" FOR PRODUCTS