

21 MANUFACTURERS
A. IN OTHER PART 1 ARTICLES WHERE TITLES BELOW INTRODUCE LISTS, THE FOLLOWING REQUIREMENTS APPLY FOR PRODUCT SELECTION.
1. AVAILABLE MANUFACTURERS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE MANUFACTURERS SPECIFIED.
2. MANUFACTURERS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE MANUFACTURERS SPECIFIED.
22 PVC ROOFING MEMBRANE
PVC SHEET: ASTM D454, TYPE IV, FABRIC REINFORCED.
1. MANUFACTURERS:
a. DURO-LAST ROOFING, INC.
b. THORNESS: 40 MILS (10 MM) NOMINAL.
c. EXPOSED FACE COLOR: WHITE.
23 ADJUNCT MATERIALS
A. GENERAL: ADJUNCT MATERIALS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER FOR INTENDED USE AND COMPATIBLE WITH MEMBRANE ROOFING.
1. ADHESIVES AND SEALANTS THAT ARE USED INSIDE OF THE WEATHERPROOFING SYSTEM SHALL COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
a. PLASTIC FLOOR ADHESIVES: 50 G/L.
b. GYPSUM BOARD AND PANEL ADHESIVES: 50 G/L.
c. MULTIPURPOSE CONSTRUCTION ADHESIVES: 10 G/L.
d. FIBERGLASS ADHESIVES: 80 G/L.
e. CONTACT ADHESIVES: 80 G/L.
f. PLASTIC CEMENT WELDING COMPOUNDS: 350 G/L.
g. PVC WELDING COMPOUNDS: 510 G/L.
h. OTHER ADHESIVES: 250 G/L.
i. SINGLE-PLY ROOF MEMBRANE SEALANTS: 450 G/L.
j. NONMEMBRANE ROOF OF OTHERS: 10 G/L.
k. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L.
l. SEALANT PRIMERS FOR POROUS SUBSTRATES: 175 G/L.
B. SHEET FLASHING: MANUFACTURER'S STANDARD SHEET FLASHING OF SAME MATERIAL, TYPE, REINFORCEMENT, THICKNESS, AND COLOR AS PVC SHEET MEMBRANE.
C. BONDING ADHESIVE: MANUFACTURER'S STANDARD SOLVENT-BASED BONDING ADHESIVE FOR MEMBRANE, AND SOLVENT-BASED BONDING ADHESIVE FOR BASE FLASHINGS.
D. METAL TERMINATION BARS: MANUFACTURER'S STANDARD PREPRESSED STAINLESS-STEEL OR ALUMINUM BARS, APPROXIMATELY 1 1/2 BY 1/8 INCH (25 BY 3 MM) THICK WITH ANCHORS.
E. METAL BATTENS: MANUFACTURER'S STANDARD ALUMINUM, ZINC-ALLOY COATED OR ZINC-COATED STEEL SHEET, APPROXIMATELY 1 INCH (25 MM) WIDE BY 0.075 INCH (3 MM) THICK, PREPUNCHED.
F. FASTENERS: FACTORY-COATED STEEL FASTENERS AND METAL OR PLASTIC PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMS 4410, DESIGNED FOR FASTENING MEMBRANE TO SUBSTRATE, AND ACCEPTABLE TO MEMBRANE ROOFING SYSTEM MANUFACTURER.
G. MISCELLANEOUS ACCESSORIES: PROVIDE POURABLE SEALERS, PREFORMED CONE AND VENT SHEET FLASHINGS, PREFORMED INSIDE AND OUTSIDE CORNER SHEET FLASHINGS, T-JOINT COVERS, TERMINATION REGLETS, COVER STRIPS, SLIP SHEET, AND OTHER ACCESSORIES.
24 ROOF INSULATION
A. EXTRUDED-POLYSTYRENE BOARD INSULATION: ASTM C578, TYPE IV, 1/4-1 1/2 INCH (1.26-3.81 CM) MINIMUM DENSITY, SQUARE EDGED.
B. TAPERED INSULATION: PROVIDE FACTORY-TAPERED INSULATION BOARDS FABRICATED TO SLOPE OF 1/4 INCH PER 8 INCHES (6.35 MM PER 203.2 MM) UNLESS OTHERWISE INDICATED.
C. PROVIDE PREFORMED SADDLES, CROCKETS, TAPERED EDGE STRIPS, AND OTHER INSULATION SHAPES WHERE INDICATED FOR SLOPING TO DRAIN. FABRICATE TO SLOPES INDICATED.
25 INSULATION ACCESSORIES
A. FASTENERS: FACTORY-COATED STEEL FASTENERS AND METAL OR PLASTIC PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMS 4410, DESIGNED FOR FASTENING ROOF INSULATION TO SUBSTRATE, AND ACCEPTABLE TO ROOFING SYSTEM MANUFACTURER.
B. COLD FLUID-APPLIED ADHESIVE: MANUFACTURER'S STANDARD COLD FLUID-APPLIED ADHESIVE FORMULATED TO ADHERE ROOF INSULATION TO SUBSTRATE.
C. COVER BOARD: ASTM C208, TYPE II, GRADE 1, CELLULOSE-FIBER INSULATION BOARD, 1/2 INCH (13 MM) THICK.
26 WALKWAYS
A. FLEXIBLE WALKWAYS: FACTORY-FORMED, NONPOROUS, HEAVY-DUTY, SOLID-RUBBER, SLIP-RESISTING, SURFACE-TEXTURED WALKWAY PADS OR ROLLS, APPROXIMATELY 3/4 INCH (19 MM) THICK, AND ACCEPTABLE TO MEMBRANE ROOFING SYSTEM MANUFACTURER.
PART 3 - EXECUTION
31 SUBSTRATE BOARD INSTALLATION
A. INSTALL SUBSTRATE BOARD WITH LONG JOINTS IN CONTINUOUS STRAIGHT LINES, PERPENDICULAR TO ROOF SLOPES WITH END JOINTS STAGGERED BETWEEN ROUS. TIGHTLY BUTT SUBSTRATE BOARDS TOGETHER.
1. FASTEN SUBSTRATE BOARD TO TOP FLANGES OF STEEL DECK ACCORDING TO MEMBRANE ROOFING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS.
32 INSULATION INSTALLATION
A. COORDINATE INSTALLING MEMBRANE ROOFING SYSTEM COMPONENTS SO INSULATION IS NOT EXPOSED TO PRECIPITATION OR LEFT EXPOSED AT THE END OF THE WORKDAY.
B. COMPLY WITH MEMBRANE ROOFING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS FOR INSTALLING ROOF INSULATION.
C. INSTALL TAPERED INSULATION UNDER AREA OF ROOFING TO CONFORM TO SLOPES INDICATED.
D. INSTALL ONE OR MORE LAYERS OF INSULATION UNDER AREA OF ROOFING TO ACHIEVE REQUIRED THICKNESS. WHERE OVERALL INSULATION THICKNESS IS 1/2 INCHES (12.7 MM) OR GREATER, INSTALL 2 OR MORE LAYERS WITH JOINTS OF EACH SUCCEEDING LAYER STAGGERED FROM JOINTS OF PREVIOUS LAYER A MINIMUM OF 6 INCHES (152 MM) IN EACH DIRECTION.
E. MECHANICALLY FASTENED INSULATION: INSTALL EACH LAYER OF INSULATION AND SECURE TO DECK USING MECHANICAL FASTENERS SPECIFICALLY DESIGNED AND SIZED FOR FASTENING SPECIFIED BOARD-TYPE ROOF INSULATION TO DECK TYPE.
1. FASTEN INSULATION TO RESIST UPLIFT PRESSURE AT CORNERS, PERIMETER, AND FIELD OF ROOF.
2. INSTALL COVER BOARDS OVER INSULATION WITH LONG JOINTS IN CONTINUOUS STRAIGHT LINES WITH END JOINTS STAGGERED BETWEEN ROUS. LOOSELY BUTT COVER BOARDS TOGETHER AND FASTEN TO ROOF DECK.
1. FASTEN TO RESIST UPLIFT PRESSURE AT CORNERS, PERIMETER, AND FIELD OF ROOF.
33 MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION
A. INSTALL ROOFING MEMBRANE OVER AREA TO RECEIVE ROOFING ACCORDING TO ROOFING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS. UNROLL ROOFING MEMBRANE AND ALLOW TO RELAX BEFORE INSTALLING.
1. INSTALL SHEET ACCORDING TO ASTM D3082.
B. MECHANICALLY OR ADHESIVELY FASTEN ROOFING MEMBRANE SECURELY AT TERMINATIONS, PENETRATIONS, AND PERIMETER OF ROOFING.
C. SEAMS: CLEAN SEAM AREAS, OVERLAP ROOFING MEMBRANE, AND HOT-AIR WELD SIDE AND END LAPS OF ROOFING MEMBRANE ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS TO ENSURE A WATER-TIGHT SEAM INSTALLATION.
1. REPAIR TEARS, VOIDS, AND LAPPED SEAMS IN ROOFING MEMBRANE THAT DOES NOT MEET REQUIREMENTS.
D. IN-SPLICE ATTACHMENT: SECURE ONE EDGE OF ROOFING MEMBRANE USING FASTENERS, PLATES OR METAL BATTENS CENTERED WITHIN MEMBRANE SPLIT AND MECHANICALLY FASTEN ROOFING MEMBRANE TO ROOF DECK. FIELD-SPLICE SEAM.
E. THROUGH-MEMBRANE ATTACHMENT: SECURE ROOFING MEMBRANE USING FASTENING PLATES OR METAL BATTENS AND MECHANICALLY FASTEN ROOFING MEMBRANE TO ROOF DECK. COVER BATTENS AND FASTENERS WITH A CONTINUOUS COVER STRIP.
34 BASE FLASHING INSTALLATION
A. INSTALL SHEET FLASHING AND TRIM USING ACCESSORIES AND ADHERE TO SUBSTRATES ACCORDING TO MEMBRANE ROOFING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS.
B. APPLY SOLID ADHESIVE TO SUBSTRATE AND INSTALLATION. UNDERSIDE OF SHEET FLASHING AT REQUIRED RATE. ALLOW TO PARTIALLY DRY. APPLY BONDING ADHESIVE TO SEAM AREA OF FLASHING.
C. FLASH PENETRATIONS AND FIELD-TYPED INSIDE AND OUTSIDE CORNERS WITH SHEET FLASHING.

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