

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
1. SBS-modified bituminous membrane roofing.
 2. Elastomeric base flashing.
 3. Roof insulation.

1.2 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.
- B. Installer Shall:
1. Submit an affidavit attesting that Design/Builder has in place and fully implemented a written Health, Safety and Environmental Plan and the plan is compliant with all applicable Federal, State and Local regulations.
 2. Be experienced in hot modified asphalt roofing applications for 10 years minimum.
 3. Be acceptable to the University.
 4. Be a manufacturer Certified or approved by the University.
 5. Not have been in Chapter 7 bankruptcy during the last ten (10) years.
 6. Provide a list of ten (10) projects available for inspection employing same roof system.
 7. Acquire inspection service days utilizing manufacturer's technical inspectors.
 - a. The minimum number of full time Technical Service inspection days will be three (3) days for a project of 200 squares or less.
 - b. The number of days will increase at a rate of one (1) day for each additional 100 squares.
- C. Manufacturer Qualifications: A qualified manufacturer that has UL listing and FMG approval for roofing system identical to that used for this Project.
- D. Manufacturer Shall:
1. Be Associate Member in good standing with National Roofing Contractors Association (NRCA) for at least five (5) years.
 2. Be nationally recognized in the roofing, waterproofing and moisture survey industry.
 3. Be approved by the University.
 4. Has not been in Chapter 11 bankruptcy during the last five (5) years.
 5. Provide evidence of financial responsibility: Certificate of Insurance showing Products Liability in the amount of \$25 million minimum and provide an affidavit signed by a corporate officer showing corporate net worth of \$50 million minimum.
 6. Provide a copy of Corporate Health, Safety and Welfare policy
 7. Manufacturer must manufacture a minimum of 70% of the materials that they supply, by dollar volume, in facilities owned or solely leased by said manufacturer, including equipment used in manufacturing operations.
 8. Provide evidence of twenty (20) quarters of continuous plant inspections of roofing manufacturing sites over the previous five (5) years by an independent Nationally Recognized Testing Laboratory (NRTL) as defined in 29 CFR Ch. XVII (7-1-93 Edition) from the Occupational Safety and Health Administration (OSHA).
 9. Be ISO 9001 registered for at least the prior five (5) years
 10. Furnish a service agreement / warranty.

11. Provide the University names of at least five (5) qualified applicators.
 12. Employ full-time Field Technical Services Representatives for daily job-site monitoring and production of daily reports.
 13. Require local Field Representatives to make periodic job-site visits and produce work quality and progress reports.
 14. Provide a Project Closeout Report upon delivery of the project warranty. This report to include:
 - a. Project Specifications.
 - b. Project Summary.
 - c. Progress reports as a result of roof inspections.
 - d. Job-site progress photos.
 - e. Warranty document.
 - f. Owner's Manual describing maintenance and emergency repair.
- E. Source Limitations: Obtain components for roofing system, insulation, and insulation adhesive from or approved by roofing system manufacturer.
- F. Pre-installation Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:
1. Meet with the University, Design/Builder, the University's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 5. Review structural loading limitations of roof deck during and after roofing.
 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
 7. Review governing regulations and requirements for insurance and certificates if applicable.
 8. Review temporary protection requirements for roofing system during and after installation.
 9. Review roof observation and repair procedures after roofing installation.

1.3 WARRANTY

- A. Special Warranty: Manufacturer's Quality Assurance Plus Warranty and Service Agreement in which manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
1. Special warranty includes roofing membrane, base flashings, roofing membrane accessories, roof insulation, all sheet metal-related details, and termination details.
 2. Manufacturer will provide, at no cost to the University, the following services in Years 2, 5, 10, and 15:
 - a. Inspection by a Technical Service Representative and delivery of a written inspection report documenting roof conditions.

- b. Preventative maintenance and necessary repairs, including splits, tears, or breaks in the roof membrane system and flashings which threaten the integrity of the roof system and are not exempt from coverage due to neglect, negligence, vandalism, or other exclusion.
 - c. General rooftop housekeeping and clean-up, subject to limits, but generally including removal of incidental debris.
 - 3. Warranty Period: Twenty years from date of Notice of Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering Work of this Section, including all components of roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
 - 1. Warranty Period: Five years from date of Notice of Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Hot Modified Asphalt Roofing:
 - a. Tremco, Inc., PowerPly Supreme Smooth/PowerPly Standard FR roof system
 - b. Siplast, Inc., Paradiene 20/30MW FR roof system
 - c. Alternate manufacturers meeting Quality Assurance requirements and having products with equal or better properties may be acceptable.

PART 3 - EXECUTION

- A. GENERAL
- B. As required by manufacturer to maintain warranty.

END OF SECTION