

**SECTION 07 01 50.19
PREPARATION FOR RE-ROOFING**

PART 1 - GENERAL**1.1 DESCRIPTION**

- A. Asphalt Roof tear-off on existing construction in preparation to receive new asphalt shingles.

1.2 RELATED WORK

- A. Asphalt Shingles; 073113 - ASPHALT SHINGLES.
B. HVAC equipment removal and reinstallation: Division 23 sections.
C. Electrical equipment disconnection and reconnection: Division 26 sections.

1.3 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in the text by the basic designation only. Editions of applicable publications current on date of issue of bidding documents apply unless otherwise indicated.
- B. American National Standards Institute/Single-Ply Roofing Institute (ANSI/SPRI):
ANSI/SPRI FX-1-01(R2006) Standard Field Test Procedure for Determining the Withdrawal Resistance of Roofing Fasteners.
- C. ASTM International (ASTM):
D1079-09.....Standard Terminology Relating to Roofing and Waterproofing
- D. FM Approvals: RoofNav Approved Roofing Assemblies and Products.
4450-89.....Approved Standard for Class 1 Insulated Steel Deck Roofs
4470-10.....Approved Standard for Class 1 Roof Coverings
1-28-09.....Loss Prevention Data Sheet: Design Wind Loads.
1-29-09.....Loss Prevention Data Sheet: Above-Deck Roof Components
- E. National Roofing Contractors Association: Roofing and Waterproofing Manual

1.4 MATERIALS OWNERSHIP

- A. Assume ownership of demolished materials and remove from Project site and dispose of legally, unless indicated to be reused, reinstalled, or otherwise to remain Owner's property.

1.5 DEFINITIONS

- A. Refer to ASTM D1079 and NRCA "The NRCA Roofing and Waterproofing Manual" for definition of terms.

1.6 QUALITY CONTROL

- A. Requirements of Division 07 roofing section for qualifications of roofing system Installer; work of this section shall be performed by same Installer.
 - 1. Where Project requirements include removal of asbestos-containing material, Installer must be legally qualified to perform the required work.
- B. Regulatory Requirements: Comply with governing EPA notification regulations. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Reroofing Conference: Conduct conference at Project site.
 - 1. Meet with Resident Engineer/COTR; Architect-Engineer; testing and inspecting agency representative; roofing system manufacturer's representative; roofing Installer including project manager, superintendent, and foreman; and installers whose work interfaces with or affects reroofing.
 - 2. Review methods and procedures related to roofing system tear-off and replacement

1.7 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. List of proposed temporary roofing materials.
- C. Photographs or Videotape: Document existing conditions of adjacent construction including site improvements.
- D. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a licensed landfill facility.
- E. Qualification Data: For Installer.
 - 1. Certificate indicating Installer is licensed to perform asbestos abatement.
 - 2. Certificate indicating Installer is approved by warrantor of existing roofing system.

1.8 PROJECT CONDITIONS

- A. Owner will occupy portions of building below reroofing area. Conduct reroofing so Owner's operations will not be disrupted.
 - 1. Coordinate work activities daily with Resident Engineer/COTR.

2. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.
- B. Protect building and landscaping from damage.
- C. Maintain access to existing walkways and adjacent occupied facilities.
- D. Weather Limitations: Proceed with reroofing preparation only when weather conditions permit Work to proceed without water entering existing roofing system or building.
- E. Hazardous Materials: A report on the presence of hazardous materials is available to Contractor for review and use.
 1. Examine report to become aware of locations where hazardous materials are present.
 2. Hazardous material remediation is specified elsewhere in the Contract Documents.

PART 2 - PRODUCTS

2.1 INFILL MATERIALS

- A. Use infill materials matching existing membrane roofing system materials.

2.2 TEMPORARY ROOFING MATERIALS

- A. Design of temporary roofing and selection of materials are responsibilities of Contractor.

2.3 AUXILIARY REROOFING MATERIALS

- A. Metal Flashing Sheet: Metal flashing sheet is specified in Section 07 60 00 SHEET METAL FLASHING AND TRIM.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate with Resident Engineer/COTR to shut down any adjacent air-intake equipment in the vicinity of the Work. Cover air-intake louvers before proceeding with reroofing work that could affect indoor air quality or activate smoke detectors in the ductwork.
 1. Comply with Owner's requirements for maintaining fire watch when temporarily disabling smoke detectors.
- B. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.

3.2 ROOF TEAR-OFF

- A. General: Notify Resident Engineer/COTR each day of extent of roof tear-off proposed for that day and obtain authorization to proceed.

B. Partial Roof Tear-Off: Remove existing asphalt shingles and roofing felt, and immediately check for presence of moisture by visually observing roof sheathing that will remain.

1. Coordinate with Resident Engineer/COTR to schedule times for tests and inspections immediately after asphalt shingle and roofing felt removal.
2. Remove wet or damp or rotted roof sheathing. Removal will be paid for by adjusting the Contract Sum according to unit prices included in the Contract Documents.
3. Replace roof sheathing, type as specified in Section 06 10 00.

3.3 EXISTING BASE FLASHINGS

A. Remove existing base flashings around parapets, curbs, walls, and penetrations.

1. Clean substrates of contaminants such as asphalt, dirt, and debris.

B. Do not damage metal counterflashings that are to remain. Replace metal counterflashings damaged during removal with counterflashings specified in Section 07 60 00 SHEET METAL FLASHING AND TRIM.

3.4 FASTENER PULL-OUT TESTING

A. Retain independent testing and inspecting agency to conduct fastener pull-out tests according to SPRI FX-1, and submit test report to Architect-Engineer before installing new membrane roofing system.

1. Obtain Architect-Engineer's approval to proceed with specified fastening pattern. Architect-Engineer may furnish revised fastening pattern commensurate with pull-out test results.

3.5 DISPOSAL

A. Collect demolished materials and place in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.

1. Storage or sale of demolished items or materials on-site is not permitted.

B. Transport and legally dispose of demolished materials off Owner's property.

END OF SECTION