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5.0 RE-COVER

5.1 Complete removal of the existing roof system is mandatory when it contains moisture, or the additional roof system exceeds safe load design, or code requirement. Re-cover over the existing roof system requires proper preparation of the surface. Blisters, splits and other roof membrane or flashing defects shall be repaired in accordance with good roofing practice to attain a surface which is smooth, dry, clean and free of sharp projections and depressions. Prior to any decision to remove and replace, or to re-cover an existing system the architect, roof consultant, engineer, owner and/or contractor should thoroughly analyze the entire roofing system to determine its physical makeup and the condition of each component. Inspection of the roof system should be comprised of a complete visual examination, test cuts, and, where helpful, use of a moisture detection device. Particular attention must be given to problem areas which exhibit ponding water, splits, ridging, blistering or flashing defects. Areas of damaged or wet roof insulation, deteriorated decking and/or roof membrane shall be removed and replaced. It is the responsibility of the architect, roof consultant, engineer, and/or owner to determine whether an existing roof is structurally sound, firmly attached, dry and suitable for re-cover.

5.2 Preparation and Field Conditions: The following requirements shall be used in conjunction with good roofing practices to qualify a new assembly for the ND L Membrane Limited Warranty or the applicable Roof Membrane Limited Warranty Program:

1. Deck shall be dry and structurally sound.
2. Parapet walls, perimeter edges, equipment and load bearing supports, platforms, curbs, etc., shall be structurally sound.
3. Areas of recurrent splitting not caused by structural deficiency require investigation and corrective measures such as expansion joints or divorcing layer of roof insulation.
4. Additional weight of selected system shall not exceed safe load design.
5. Existing plywood decking without adequate bearing or support for end joints.
6. Surface after receiving new roofing shall provide positive drainage.
7. Existing roof insulation shall be dry and firmly attached.
8. Existing roof system shall be compatible with new roof system.
9. Existing membrane shall be dry and clean with all surface defects corrected.
10. Existing system with 5/8" or larger aggregate surfacing shall be torn off or spudded to provide a smooth surface.
11. Remove existing metal gravel stops and replace with new metal.
12. Existing counter-flashing or coping unsuitable for reuse shall be replaced to match existing.
13. Expose entire flange of all drains. Drains unsuitable for reuse shall be removed and replaced to match existing. Save clamp rings for reuse; broken clamp rings shall be replaced. Stripped or broken bolts shall be drilled and re-tapped.
14. Abandoned equipment shall be removed and new decking installed to match existing.
15. Height and/or clearance of flashing at membrane terminations shall be in accordance with construction details.
16. Base and wall flashing shall be removed when loose or with insufficient clearance under counter-flashing.
17. Roof penetrations require all new flashing.
18. Equipment vibration shall be corrected.
19. Joints in masonry coping shall be grouted or caulked as required.
20. Membrane to receive wood blocking pipe support shall be reinforced with an additional ply of FLINTLASTIC®. The support shall be designed to provide for expansion and contraction of the pipe.
21. Condensation lines shall extend into drain.

NOTE: Substrates with two or more existing membranes are not eligible for a CertainTeed Warranty. Extended warranties require new construction and/or complete tear-off.

5.3 Application: Over an insulated or non-nailable prepared and primed existing membrane, spot mop with Type III asphalt and while hot, embed a YOSEMITE Venting Base Sheet granule side down, or approved insulation fully adhered. Mechanically attach Yosemite to properly prepared nailable existing roof systems. Under no condition shall Yosemite be totally laminated to the existing system. Yosemite shall be substituted for base ply of selected CertainTeed Commercial Roofing roof system on re-cover systems without additional insulation, or qualifies for vapor retarder when insulation is specified. Insulation shall be full mopped to buffer sheet and followed with selected roof system, on smooth or cap sheet surface existing roof systems, alternate approved CertainTeed Commercial Base Sheets may be used in lieu of Yosemite® Venting Base Sheet.

SECTION 07510

This specification addendum shall be incorporated into selected Roof System Specification. The following paragraphs shall be substituted into selected Roof System Specification and changed alphabetically where required.

PREPARATION

Asphalt Primer.

Prime the prepared existing and vertical surfaces with asphalt primer, using 1/2 gallon per 100 square feet and allow to dry.

APPLICATION

NOTE

1. Yosemite (mineral surface side down) shall be used in lieu of the base ply of selected Roof System Specification. Remove all foreign materials or debris from surface of Yosemite prior to installation of remaining plies. Base ply of selected system may be used in lieu of buffer sheet when existing roof has a smooth or Cap Sheet Membrane.
2. Do not omit paragraphs 3.03 APPLICATION section.
3. Omit asphalt primer, spot mopping and base ply from selected Roof Membrane Specification Summary of Materials.

Refer to Commercial Roofing Systems General Requirements Sections for definitions. General Requirements shall be used in conjunction with Roof System Specification. Insulation and/or recover specifications require the integration of appropriate addenda into the main specification.

FOR USE OVER NON-NAILABLE DECKS OR EXISTING INSULATED DECKS

2.01 ROOFING SYSTEM

Summary of Additional Materials per 100 Square Feet.

Asphalt Primer (1/2 gallon)	4 lbs.
Type III or IV Asphalt Spot Mopping	15 lbs.
(Over Prepared Gravel Surface @ 20 lbs)	
YOSEMITE® Venting Base Sheet (1 ply)	85 lbs.
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Approximate Total Finished Weight	104 lbs.

Cants.

In angles of roof deck and vertical surface when cants do not exist, the Roofing Contractor shall furnish and install a Fiber Cant Strip with a minimum 3" face.

Existing Roof Surface.

Existing membrane shall be dry, clean and smooth enough to receive Yosemite without punctures; all blisters, splits and other surface defects repaired in accordance with good roofing practice. Prepared surface shall provide positive drainage.

(EXISTING AGGREGATE SURFACE) Loose aggregate shall be completely removed prior to installation of roof system. Existing surfaces with 5/8" or larger aggregate shall be torn off or spudded to provide a smooth surface.

Outlets. Expose entire metal flange of all drains, cutting existing roofing back from drains 12" and taper cut edge to prevent water dam. Sheet metal drains unsuitable for reuse shall be removed and replaced to match existing. Clean and save clamp rings for reuse; broken clamp rings shall be replaced. Stripped or broken bolts shall be drilled and re-tapped. Additional drainage outlets, if required, shall be installed below roof deck surface to permit free flow of water and prevent forming water dams at rims.

Details. Detail corrections, if required, shall be completed with roof accessories available prior to the installation of materials. Existing flashing materials shall be removed and the surface prepared to receive new flashing.

SECTION 07510

This specification addendum shall be incorporated into selected Roof System Specifications. The following paragraphs shall be substituted into selected Roof System Specifications and changed alphabetically where required.

APPLICATION

NOTE

- 1.** Yosemite (mineral surface side down) shall be used in lieu of the base ply of selected Roof System Specification. Remove all foreign materials or debris from surface of Yosemite prior to installation of remaining plies. Base ply of selected system may be used in lieu of buffer sheet when existing roof has a smooth or Cap Sheet Membrane.
- 2.** Do not omit paragraphs 3.03 APPLICATION Section.
- 3.** Omit base ply from selected Roof Membrane Specification Summary of Materials.

Refer to Commercial Roofing Systems General Requirements Sections for definitions. General Requirements shall be used in conjunction with Roof System Specification. Insulation and/or recover specifications require the integration of appropriate addenda into the main specification.

FOR USE OVER NAILABLE DECKS

2.01 ROOFING SYSTEM

Summary of Additional Materials per 100 Square Feet.

YOSEMITE® Venting Base Sheet (1 ply)	85 lbs.
Approximate Total Finished Weight	85 lbs.

Cants.

In angles of roof deck and vertical surfaces where cants do not exist, the Roofing Contractor shall furnish and install a Fiber Cant Strip with a minimum 3" face.

Existing Roof Surfaces.

Existing membrane shall be dry, clean and smooth enough to receive Yosemite without punctures; al blisters, splits and other surface defects repaired in accordance with good roofing practice. Prepared surface shall provide positive drainage.

(EXISTING AGGREGATE SURFACE) Loose aggregate shall be completely removed prior to installation of roof system. Existing surfaces with 5/8" or larger aggregate shall be torn off or spudded to provide a smooth surface.

Outlets.

Expose entire metal flange of all drains, cutting existing roofing back from drains 12" and taper cut edge to prevent water dam. Sheet metal drains unsuitable for reuse shall be removed and replaced to match existing. Clean and save clamp rings for reuse; broken clamp rings shall be replaced. Stripped or broken bolts shall be drilled and re-tapped. Additional drainage outlets, if required, shall be installed below roof deck surface to permit free flow of water and prevent forming water dams at rims.

Details.

Detail corrections, if required, shall be completed with roof accessories available prior to the installation of materials. Existing flashing materials shall be removed and the surface prepared to receive new flashing.

SECTION 07510

This specification addendum shall be incorporated into selected Roof System Specification (use Non-Nailable Roof System Specification). The following paragraphs shall be substituted into selected Roof System Specification and changed alphabetically where required.

APPLICATION

Vapor Retarder. (Yosemite, mineral surface side down.) Spot mop the prepared surface with asphalt, using 15 lbs. per 100 square feet and embed the buffer sheet lapping 2" on sides and 4" on ends. Attach one ply of base sheet at termination of buffer sheet extending 8" beyond curbs or eaves and up vertical surfaces. On nailable decks the buffer sheet may be mechanically attached with approved fasteners in the side lap, 9" o.c., and two rows staggered in the center of the sheet, 12" from each edge 18" o.c.

Insulation. CertainTeed Commercial Approved Roof Insulation is adhered in a full mopping of approved asphalt at a rate of 25 lbs. +/-15% per 100 square feet of insulation. Roof Membrane Warranty Roof Systems require double layer application of roof insulation when total insulation thickness exceeds 2". Double layer roof insulation shall be installed in two layers as follows: First layer embedded in asphalt with end joints offset as described above. Second layer adhered, in a full mopping of approved asphalt at a rate of 25 lbs. +/-15% per 100 square feet of insulation.

Insulation Without Vapor Retarder. CertainTeed Commercial Approved Roof Insulation is adhered in a full mopping of approved asphalt at a rate of 25 lbs. +/-15% (aggregate surface requires 35 lbs. +/-15%) per 100 square feet of insulation to a properly prepared and primed surface. Stagger all end joints. Where mechanical attachment of insulation is acceptable, the insulation is attached with approved mechanical fasteners (refer to current FM approval guide for insulation and fastener specifications). Stagger end joints. If a second layer of insulation is required, adhere as described above.

Application of Roofing shall progress with the laying of insulation. Apply insulation flush to vertical surfaces and wood nailers. After insulation is applied return extended base sheet onto insulation and set in asphalt. Cover all insulation with roofing by the close of each day.

Base Ply of selected Roof System is adhered in a full mopping of approved asphalt at a rate of 25 lbs./sq. +/-15%, except over urethane, isocyanurate, or styrene type insulation where CertainTeed Commercial recommends the use of a suitable cover board prior to the application of the base ply. Omit asphalt primer and original method of attachment specified in Selected Roof System.

NOTE: Do not omit paragraphs in section 3.03 APPLICATION, change alphabetically.

Refer to Commercial Roofing Systems General Requirements Sections for definitions. General Requirements shall be used in conjunction with Roof System Specification. Insulation and/or recover specifications require the integration of appropriate addenda into the main specification.

FOR USE WHEN ADDITIONAL ROOF INSULATION IS SPECIFIED.

2.01 ROOFING SYSTEM

Summary of Additional Materials per 100 Square Feet.

Asphalt Primer (1/2 gallon)	4 lbs.
Type III or IV Asphalt Spot Mopping (Over Prepared Gravel Surface @ 20 lbs)	15 lbs
YOSEMITE® Venting Base Sheet (Vapor Retarder) 1 ply	85 lbs.
Type III Asphalt Mopping	25 lbs.
*CertainTeed Commercial approved roof insulation Type III or IV Asphalt Full Mopping to receive roofing	25 lbs.
Approximate Total Finished Weight (without insulation)	154 lbs.

*Contact your local CertainTeed Commercial office for approved roof insulations.

NOTES:

1. Nailable decks. For nailable decks, the asphalt primer and spot mopping of the Yosemite® Venting Base Sheet may be omitted in lieu of mechanical attachment of the buffer sheet.
2. When vapor retarder is not required, omit Type III spot mopping and Yosemite from this summary of materials.
3. Omit asphalt primer and spot mopping from selected Non-nailable Roof System Specification.