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**Summary Specification Re-Skinning an Existing Roof
 Maintenance and Repair Warranty Upgrade for Up to 30 Years
 Re-Skinning Over an Existing Roof with a New C-EPDM Membrane
 Using The Existing Roof's Intact Angle Change
 Terminations as a Shear Skirt**

T.L. Kelly©

The existing roof angle change terminations and flashings when sound and intact can be reused. Simply clean the angle change area and seam the new 2001 Co. C-EPDM repair membrane to the existing membrane using 6" in seam zip tape. This maintenance repair and/or warranty upgrade work is a 2nd ply roof membrane to the existing, similar to a coating..

This repair can be tax deductible in the year installed because it is not a new roof.

It is a repair or a maintenance upgrade 2nd ply to the existing.

Existing Roof Assembly Information

<u>Original 1st Roof</u>	<u>2nd Roof Assembly</u>	<u>New Wind Vented Roof</u>
1. Deck	Separator	Separator
2. Air/Vapor Barrier	Air/Vapor Barrier	Air/Vapor Barrier
3. Insulation	Insulation	Insulation
4. Cover Board	Cover Board	Cover Board
5. Attachment	Attachment	Attachment
6. Roofing Membrane	Roofing Membrane	Roofing Membrane
7. Membrane Attachment	Membrane Attachment	Membrane Attachment
8. Membrane Surfacing	Membrane Surfacing	Membrane Surfacing

Preparation

- Clean existing roof surface of dirt and debris.**
- Refasten or remove and replace deteriorated bowing or cupping existing 2nd roofing system membrane and insulation.** When replacement is necessary, replace to equal height with insulation and ½" Weighted Cover Board, Dens Deck or equal to 2001 Co. specifications.

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As a Shear Skirt for a New 2001 Co. Membrane

3. **Remove existing deteriorated angle change terminations and bridging flashings:** Repair with new to 2001 Co. Shear Skirt or other 2001 Co. Air Sealing details.

NOTE: If the existing terminations and flashings are intact, they can be left in place and used as a shear skirt for the new 2001 Wind Vented membrane skin over the existing repair.

4. **Replace Nailers wherever deteriorated or deficient:** If the existing angle change terminations and flashings are intact, they can be left in place and re-roofed over directly.

5. **When necessary replace existing angle change terminations, install new to 2001 Co. Shear Skirt 2' or 3'4" wide reinforced membranes to 2001 Co. Specifications and Details:** Shear Skirts can also be installed on the existing angle change and fastened in place with a new nailer board used as a termination bar into the vertical wall or horizontal roof deck.

(See 2001 Co. Shear Skirt details attached with a termination board).

Make sure there is a two inch (2") membrane extension beyond the term bar or new nailer board for Shear Skirt rip through resistance. When new plywood or treated lumber nailer securement board is used instead of a termination bar to fasten a Shear Skirt, fasten the board 6" on center, in a stagger fastener pattern so the nailer board will not split.

6. **When using an existing roof's intact angle change terminations as a Shear Skirt for a new 2001 Co. membrane:** Clean the existing membrane angle change area for 24" minimum out from angle change termination.

7. **Clean the existing roof membrane:** With soapy water and a 3M Doodle Bug Scotch Bright Scrub Pad. Suck up dirty water with a shop vacuum. Wipe up remaining residue with clean rags. For final cleaning of the membrane use Windex window cleaner and clean rags or paper towels.

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8. **Inseam Tape Preparation**: After cleaning the existing angle change area, use the proper membrane cleaner and primers to install 6” double sided inseam tape.
9. **Install membrane, seams, and flashing to 2001 Co. Specifications and Details**:
 - A. 6” double sided seam tape is installed on the existing roof membrane horizontal surface at the angle change and 24” (twenty-four inches) minimum out from the angle change to attach the new 2001 Company Wind Vented C-EPDM replacement roof membrane.
 - B. In areas where deficient angle change terminations were replaced with new Shear Skirts, attach the new Wind Vented roof membrane to the new Shear Skirts.
 - C. Note an option on existing thermoplastic membrane: is to use a thermoplastic membrane and heat weld the seams wherever possible.

Note: If a PVC maintenance membrane is chosen, use fleece backed PVC membranes over existing membranes to block plasticizer migration.
10. **Install one of the following optional separator layers over the existing roof**:
 1. **Nothing**: The new 2001 C-EPDM membrane can be installed directly over an existing smooth surface roof membrane that will not abrade or contaminate the new membrane from the underside.

Note: If the existing roof membrane is permeated you must use a separator sheet.
 2. **2001 Co. Fleece Backed Membrane, Geotextile Felt or Fireguard Underlayment Gravel Mat comes in 5/16” or 7/16”**: is loose laid over the existing permeated roof surface to assist in air exchange.
 3. **Weighted Cover Board**: Gypsum, Dens Deck, Cement Board, or approved equal.

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4. **Rigid Roof Insulation Boards**: expanded polystyrene 1-lb. minimum density, Polyisocyanurate, ISO, and the like insulation boards are loose laid and weighted in place with a Weighted Cover Board or mechanically fastened over the existing into the roof deck.
11. **Loose Lay 2001 Co C-EPDM**: over the existing roof assembly and optional separator layer.
12. **Attach Field membrane to the cleaned, primed and seam taped existing membrane angle change termination areas or new Shear Skirt Air Seal with 6” seam tape**: Totally adhere the new 2001 Co. C-EPDM field membrane over the remainder of the existing field membrane and adhere or seam tape it to the existing intact flashings.
13. **Where new angle change terminations and flashing are required**: Adhere the new field membrane over the Shear Skirt and up the vertical wall as a flashing in itself and finish on top of the existing counter flashing metal with 4” seam tape and termination bars, to 2001 Co. details.

Note: On through wall and riglet counter flashing metal skirts, 2001 Co. recommends not bending up metal counter flashings and terminating a base flashing under the metal counter flashing. This causes kink dams in the metal counter flashing forcing water to seep backwards into the masonry around the counter flashing. 2001 Co. recommends to terminate vertical wall flashings on the face of metal counter flashings.

Note: Repair existing counter flashing metal on vertical walls if kinked where it goes into the masonry wall. Flatten kinked metal with an oak board edge so it will drain water properly. Clean plugged up weep holes above the metal counter flashing so they can work.
14. **Seam tape is used to attach the base flashing membrane to the face of the metal counter flashing on the vertical wall**: A termination bar is installed in a convex position, a 1/2” down on

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the counter flash metal to compress the new flashing membrane, the counter flashing metal, and the existing flashing into the vertical wall, parapet, curb, etc.

15. **Install the 2001 Co. Wind Venting Equalizer Valves™ for wind uplift transfer and continual drying of the wet roof substrate:** According to the 2001 Company's Equalizer Valve Placement diagram pin pointing the wind vortex intensity zones for this specific building.
16. **Finish Flashing on Existing perimeters and penetrations are not necessary when existing are in tact:** They are a future maintenance/repair with the installing roofer that the building owner can add to the warrantee once completed.
17. **Newly flashed perimeters and penetrations:** installed to 2001 Co. detail drawings are included in the 2001 Co. extended **Maintenance Warrantee Protection.**
18. **Provide optional walk-way pads, equipment sleepers, oil drip pans, safety equipment, and other roof top accessories:** At building owner's requests, as an optional cost extra per item for the building owner to purchase now or in future maintenance.