OVERVIEW OF AN EXISTING WHITE THERMOPLASTIC ROOF ASSEMBLY

THE SHADING ON THE ROOF SURFACE IS CAUSED BY MORNING DEW.

THE MEMBRANE IS MECHANICALLY ATTACHED ALONG THE PERIMETER EDGE. THIS SYSTEM IS CONSIDERED ONE OF THE MOST COMMON APPLICATION METHODS WHETHER APPLYING ANY OF THE FOLLOWING THREE SINGLE PLY ROOFING SYSTEMS TPO, PVC OR EPDM MEMBRANE.

DUE TO WIND UPLIFT CONDITIONS, THE FIELD SHEETS ALONG THE PERIMETER EDGE ARE NOT AS WIDE AS THE SHEETS IN THE CENTER OF THE ROOF. TYPICALLY FIELD SHEETS ARE 10’ WIDE AND THE PERIMETER MEASURES APPROXIMATELY 3’ WIDE.

ROOFTOP UNITS THAT REST ON WOOD DUNNAGE WILL REQUIRE A PROTECTION PAD BENEATH THE WOOD AND ANOTHER PROTECTION PAD ALONG THE SIDE ACCESS PANEL.

PLEASE NOTE THE RIGID METAL VENT WAS RUSTED PRIOR TO THE INSTALLATION OF THIS ROOF. PFISTER ROOFING CLEANED, THEN APPLIED A RUST INHIBITOR PRIOR TO COATING THE VENTS WITH TOPCOAT.

NOTE THE ATTENTION TO DETAIL. THE ADHERED MEMBRANE AT HVAC CURB W/ PROTECTION PAD AT THE ACCESS PANEL SIDE OF UNIT.

NOTE THE NEW METAL EDGE DETAIL ALONG THE PERIMETER. IN THIS CASE, THE WALL IS ENCAPSULATED WITH MEMBRANE. AFTER THE THERMOPLASTIC COATED METAL GRAVEL STOP IS FASTENED TO THE EDGE, A 6" FLASHING MEMBRANE IS HEAT WELDED TO THE METAL TO COVER FASTENERS.

THERMOPLASTIC MEMBRANES ARE LIGHT WEIGHT, DURABLE AND VERSATILE. THE FLASHING MEMBRANE CAN EASILY BE ADHERED TO ENCAPSULATE HIGHER WALLS. FOR EXAMPLE, THIS WALL MEASURES APPROXIMATELY 4' HIGH.

BESIDES THE BENEFIT THAT A WHITE MEMBRANE WILL KEEP THE SURFACE OF THE ROOF 25 TO 35 DEGREES COOLER, WHICH MAKES FOR A COOLER INTERIOR, **THE SEAMS ARE "HEAT WELDED"**. UNLIKE EPDM OR ASPHALT BASED MEMBRANE SYSTEMS, THE SEAM IS A TRUE WELD. ONCE WELDED, THE SEAM IS AS STRONG AS THE MEMBRANE ITSELF!

EVERY PENETRATION IS HEAT WELDED TO THE FIELD SHEET. NOTE THE ATTENTION TO DETAIL USED TO ADDRESS THE VARIOUS LINES AT THIS SMALL UNIT.

EVERYTHING IS TAKEN INTO CONSIDERATION FROM THE PENETRATION DETAIL, THE USE OF PROTECTION PADS UNDER THE WOOD SUPPORTS AND THE FASTENING OF THE UNIT TO THE WOOD. THIS SPECIFIC DETAIL STRICTLY FOLLOWS MANUFACTURER'S SPECIFICATION AS WELL AS GOOD ROOFING PRACTICES.

AS REQUIRED BY THE MANUFACTURER, THE “T” SEAMS IN THE FLASHING MEMBRANE REQUIRE HEAT WELDED PATCHES FOR REINFORCEMENT. THESE ARE SMALL ROUND PATCHES LOCATED AT THE BASE OF PENETRATIONS. IN THIS CIRCUMSTANCE, REDUNDANT APPLICATIONS ARE A POSITIVE FEATURE AND BENEFIT OF THE SYSTEM!

COOLER ROOFS AND HEAT WELDED SEAMS ARE TWO BENEFITS OF A THERMOPLASTIC MEMBRANE HOWEVER; THE MEMBRANE IS ALSO PERFECT FOR ROOFS THAT HAVE STANDING WATER “PONDING”. THE MEMBRANE ACTS AS A DURABLE ROOFING MEMBRANE + POND LINER WHICH DOESN’T EXCLUDE LEAKS BY PONDED WATER IN THE WARRANTY.

WHY A THERMOPLASTIC MEMBRANE

1. A WHITE ROOF MEANS **A COOLER BUILDING INTERIOR**.

2. **THE SEAMS ARE A TRUE WELD**. UNLIKE THE GLUE OR TAPED SEAMS AS FOUND IN EPDM SYSTEMS, **THE SEAMS ARE AS STRONG AS THE MEMBRANE ITSELF**.

3. **THERMOPLASTIC SYSTEMS ARE AS COST EFFECTIVE** AS SINGLE PLY MEMBRANES AND MODIFIED BITUMINOUS ROOF SYSTEMS HOWEVER OFFER MUCH MORE VALUE FOR YOUR INVESTMENT.

4. THERMOPLASTIC MEMBRANES COSTS MORE THEN EPDM OR MODIFIED MEMBRANES HOWEVER; THE LABOR TO INSTALLATION IS LESS. THE **QUESTION TO ASK IS "WHY WOULD YOU WANT TO SPEND MONEY ON A ROOF THAT IS MORE LABOR INTENSIVE RATHER THEN ON A BETTER OVERALL ROOFING SYSTEM?"**

5. **UNLIKE STANDARD SINGLE PLY MEMBRANES, THERMOPLASTIC MEMBRANES HAVE A POLYESTER SCRIM INCORPORATED THROUGHOUT THE MEMBRANE. THIS PROVIDES BETTER TENSILE STRENGTH AND PUNCTURE RESISTANCE AGAINST ACCIDENTAL PUNCTURES**.

6. THERMOPLASTIC MEMBRANES ARE **SLIGHTLY "STIFFER" THEN EPDM AND PROVIDES BETTER RESISTANCE AGAINST "BILLOWING"** WHEN USED IN A MECHANICALLY FASTENED APPLICATION.

7. **THERMOPLASTIC MEMBRANES ARE IMPERVIOUS TO STANDING WATER** UNLIKE MODIFIED BITUMINOUS OR BUILT-UP ROOFING MEMBRANES. WHEN EXPOSED TO STANDING WATER, (PONDING), THE USEFUL LIFE EXPECTANCY OF ANY ASPHALT BASED MATERIAL IS SIGNIFICANTLY SHORTENED.

8. **THERMOPLASTIC MEMBRANES ARE A SOUND SOLUTION WHEN YOU NEED A STRONG, DURABLE ROOF SYSTEM TO ACCOMMODATE FOOT TRAFFIC** AS WELL AS SERVICE NEEDS ON HVAC UNITS WHEN A KETTLE OR OPEN FLAME IS NOT PERMITTED ON-SITE.

9. **MECHANICALLY FASTENED/ RHINOBOND THERMOPLASTIC MEMBRANES DO NOT HAVE THE PUNGENT ODOR ASSOCIATED WITH A FULLY ADHERED OR ASPHALT BASED ROOFING SYSTEMS.**