

Specification & Application Manual

Modified Bitumen Roofing Membranes

INTRODUCTION

As stated elsewhere in this manual, flashing details are considered the most critical areas of the roof and require the most attention to detail. All flashing details in Dibiten roof installations are to be accomplished using Dibiten smooth surfaced membrane.

Note: Plastic roofing cement should never be used with Dibiten membrane.

Remember these general rules:

WHEN APPLYING MEMBRANE OVER MEMBRANE, ALWAYS HEAT BOTH SURFACES TO ASSURE A TOTAL BOND.

FLASHING DETAIL SIDE LAPS MUST BE STAGGERED FROM THE ROOF FIELD SIDE LAPS.

Dibiten membrane is intended to be applied by licensed roofing contractors and their crew, thoroughly skilled in all aspects of roofing workmanship and safety, and the use and handling of propane equipment.

3.1 DIBITEN SINGLE PLY FLASHING DETAILS

3.1a Edge Detail

Install a 9" strip of Dibiflash along the edge of the wall with at least 2" extending down the outer face of the wall. Prepare the metal edge by lightly sanding and heating the minimum 4" flange with a heat welder. The flange should then be primed. Secure the flange over the Dibiflash with appropriate nails staggered 3" o.c. Install a minimum 11" wide strip of Dibiflash over the top of the metal flange holding the strip back from the outside edge of the metal 1/4" to 1/2" to allow room for troweling. Weld and trowel this strip securely. The field membrane ply is then installed.

3.1b Curbs and Parapet Walls

At the curb or parapet base, install an 8-12" strip of Dibiflash applied equally up the curb and out on the substrate. The field membrane is butted to the base of the curb. Install the counterflashing membrane up and over the top of the curb and back onto the deck at least 4". At the top and bottom of inside and outside corners, on top of the first counterflashing, install a small piece of smooth membrane to reinforce the corners. If the field membrane is granular surfaced, a 6" area around the base of the curb or parapet must be treated by "scorching" the surface to sink the granules and expose the modified bitumen so that a proper bond can be made between the counterflashing and field membrane.

3.1c Metal Coping

Where a metal cap is used on parapet walls, be sure to extend the Dibiten smooth fully adhered up and over the top of the parapet wall before applying the metal coping. See Detail Drawing 4.1b.

3.1d Pipes and Similar Protrusions

Install the field ply membrane and cut an X in the membrane to allow it to be installed over the pipe. Over the first field ply, install a 6" finger strip adhered at the base of the pipe. A 12" square piece of membrane is installed over the finger strip properly welded and troweled. If the field ply is granular surfaced, the area under the 12" membrane must be treated by "scorching" the surface to sink the granules and expose the modified bitumen so that a proper bond can be made between the 12" square piece of membrane and the field membrane.

3.1e Roof Drains

Install a piece of smooth membrane on the substrate that extends 6" beyond the drain flange in all directions. If the field membrane is to be granular surfaced, install the drain flange and another piece of smooth membrane that extends 8" beyond the flange in all directions, on top of the flange. Install the membrane ply and trim the membrane to the outside of the drain clamping ring. In smooth surfaced membranes, install a smooth membrane on the substrate that extends 6" beyond the drain flange in all directions. Install the drain flange and the membrane so that all pieces extend fully under the drain clamping ring.

3.1f Other Terminations and Transitions

When installing a Dibiten membrane adjacent to a shingle roof, remove the bottom three courses of shingles. Centered at the point of transition, install a 8-12" of smooth membrane. Install the Dibiten field membrane to the point of transition. Install another piece of membrane lapping over the field membrane 6" and up the slope of the shingle roof to the base of the remaining shingles. Replace the bottom 3 courses of shingles over the Dibiten membrane.

If metal cap of coping is not used on the top of a parapet, an appropriate metal counterflashing must protect the termination of the Dibiten membrane.

3.2 DIBITEN SMOOTH SURFACED TWO PLY SPECIFICATIONS

3.2a Edge Detail

Install the first field ply membrane over the substrate and down the outside face of the building a minimum of 2". Prepare the metal edge by lightly sanding and heating the minimum 4" flange with a heat welder. The flange should then be primed. Secure the flange with appropriate nails staggered 3" o.c. Install a minimum 9" wide strip of Dibiflash over the top of the metal flange holding the strip back from the outside edge of the metal 1/4" to 1/2" to allow room for troweling. Weld and trowel this strip securely. The second field membrane ply is then installed. Refer to detail Drawing 4.2a.

3.2b Curbs and Parapet Walls

The flashing detail for curbs and parapet walls are the same. The first field membrane end laps should turn up the curb or parapet base a minimum of 4-6". Where the first field membrane runs parallel to the curb, an 8-12" strip of Dibiflash is first applied equally up the curb and out on the substrate. The first counterflashing membrane extends up and over the top of the curb and back onto the deck at least 4". At the top and bottom of inside and outside corners, on top of the first counterflashing, install a small piece of smooth membrane to reinforce the corners. The second field membrane end or side laps butt securely to the base of the curb. The second counterflashing membrane extends from up and over the top of the curb and back onto the roof deck over the second field ply a minimum of 6". If the second field membrane is granular surfaced, a 6" area around the base of the curb or parapet must be treated by "scorching" the surface to sink the granules and expose the modified bitumen so that a proper bond can be made between the counterflashing and field membrane.

3.2c Metal Coping

Metal cap goes over the two plies described above and as shown in Detail Drawings 4.2a and 4.2b.

3.2d Pipes and Similar Protrusions

Install the first field ply membrane and cut an X in the membrane to allow it to be installed over the pipe. Over the first field ply, install a 6" finger strip adhered at the base of the pipe. A 12" square piece of smooth membrane is installed over the finger strip properly welded and troweled. The second field ply is then installed. If a vent pipe collar is used, it is installed between the first field ply and the finger ply. See Detail Drawing 4.2f.

3.2e Roof Drains

Install a piece of smooth membrane on the substrate that extends 6" beyond the drain flange in all directions. If the field membrane is to be granular surfaced, install the drain flange and another piece of smooth membrane that extends 8" beyond the flange in all directions, on top of the flange. Install the membrane ply and trim the membrane to the outside of the drain clamping ring. In smooth surfaced membranes, install a smooth membrane on the substrate that extends 6" beyond the drain flange in all directions. Install the drain flange and the membrane so that all pieces extend fully under the drain clamping ring. See Detail Drawing 4.2g.