

APPLICABLE FIELD MEMBRANES	
TPO REINFORCED	
TPO FLEECE BACK	
TPO SELF-ADHERING	

7

TPO REINFORCED MEMBRANE
TARGET PATCH

4

DRAIN FLANGE FASTENED TO WOOD NAILER

DRAIN FLANGE FASTENED TO DECK

CLAMPING RING

HOT AIR WELD,
1-1/2" MIN.

6

5

EXISTING DRAIN

COMPRESSION SEAL

- 1 THE HOLE SHALL BE AT LEAST THE SAME DIAMETER AS THE DRAIN PIPE.
- 2 THE MEMBRANE MUST BE NO LESS THAN 1/2" FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING
- 3 ALL BOLTS AND CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON THE WATER CUT-OFF MASTIC
- 4 SECURE DRAIN FLANGE TO ROOF DECK OR WOOD NAILER WITH A MINIMUM OF 3 FASTENERS EVENLY SPACED AROUND THE FLANGE. EHD OR HDP FASTENERS ARE ACCEPTABLE FOR WOOD, AND STEEL (18 - 22 GA.) SUBSTRATES. HDP ARE ALSO ACCEPTABLE TO CONCRETE. ACCEPTABLE PULLOUT VALUES ARE REQUIRED. REFER TO SPECIFICATIONS FOR OTHER FASTENERS AND SUBSTRATE TYPES.
- 5 APPROX. 1/8" BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF TPO REINFORCED MEMBRANE
- 6 IF THE SLOPE IN THE DRAIN SUMP EXCEEDS 3":12", THEN DIVIDE THE TPO REINFORCED MEMBRANE TARGET PATCH INTO SECTIONS PER DETAIL **TP-DR-C402**
- 7 TPO FLEECE BACK MECHANICALLY ATTACHED SYSTEMS REQUIRE FASTENERS AND PLATES IN CONJUNCTION WITH THE TARGET PATCH. REFER TO DETAIL **TP-DR-A407**

MIN. 1/2"

2

1

RETROFIT
DRAIN PIPE

APPLICABLE FIELD MEMBRANE (AND SYSTEMS)
TPO REINFORCED (ADHERED) (MECHANICALLY ATTACHED) (INDUCTION WELDED)
TPO FLEECE BACK (ADHERED)(MECHANICALLY ATTACHED: 20 YR MAX)
TPO SELF- ADHERING (ADHERED)

MULEHIDE

TPO RETROFIT DRAIN FLASHING:
FOR USE W/ ANY TPO FIELD MEMBRANE

WHEN THE SYSTEM TYPE AND PROJECT DESIGN PERMIT, THIS DETAIL IS
ACCEPTABLE FOR : **MAXIMUM 30 YEAR WARRANTY**

DETAIL NO.:
TP-DR-C405

REVISION DATE: 8/24/2026