



UNDERDECK DRAIN CLAMP (AS REQUIRED)

SHEET LEAD, MIN. 30" x 30"  
PRIME LEAD WITH PRIMER ON BOTH SIDES, (SEE NOTES)  
ROLL LEAD DOWN BOWL. (SET IN MBR UTILITY CEMENT OR MBR FLASHING CEMENT)

DRAIN STRAINER

SUMP CORNER

CLAMPING RING

CAP SHEET UNDER CLAMPING RING

SMOOTH SURFACED MODIFIED BITUMEN

SMOOTH SURFACE PLY BELOW CAP SHEET

LEAD SHEET

INSULATION TAPERED TO DRAIN

JM APPROVED DECK

RIGID INSULATION

**NOTES:**

1. REFER TO JOHNS MANVILLE WEBSITE ([www.jm.com](http://www.jm.com)) FOR MOST UP-TO-DATE INFORMATION.
2. ASPHALT AND MBR UTILITY CEMENT NOT SHOWN FOR CLARITY
3. LEAD FLASHING SHALL BE 2.5 LBS. PER SQUARE FOOT MINIMUM.
4. IT IS ACCEPTABLE TO RUN FIELD MEMBRANE PLY THROUGH DRAIN CENTER AND OMIT TARGET SHEET IF DRAIN SUMP IS SHALLOW ENOUGH TO ALLOW INSTALLATION WITHOUT WRINKLES OR FISHMOUTHS. STEEP SUMPS WILL REQUIRE THE INSTALLATION OF A TARGET PATCH WITHIN DRAIN SUMP.
5. USE ASPHALT PRIMER ON LEAD FLANGES WHEN USING MBR UTILITY CEMENT. USE PERMAFLASH PRIMER ON LEAD FLANGES WHEN USING MBR FLASHING CEMENT.
6. EXTEND ALL PLIES TO EDGE OF DRAIN BOWL.
7. ANY CARPENTRY, METAL WORK, OR MASONRY CONSTRUCTION SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
8. PLEASE SEE BITUMINOUS FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.

DRAWING NO.

**DFE-11**

**METAL DRAIN**

MEMBRANE TYPE:  
BUR

MAXIMUM GUARANTEE TERM:

SCALE  
N.T.S

ISSUE DATE  
6-10-14

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