

ROOFER'S CHOICE

JUAL OUTLET

FOR FLAT ROOF
WITH 2 LAYER BITUMEN MEMBRANE



INSTALLATION INSTRUCTION

INSTALLATION INSTRUCTION – JUAL OUTLET



– FOR FLAT ROOF WITH 2 LAYER BITUMEN MEMBRANE

1. Check that the outlet is intact upon receipt.
2. Mark up on the cleaned roof surface, where the outlet should be placed.
3. Make a cutout in the roof surface or the insulation for the outlet. The cutout must be 60 cm x 60 cm, depth minimum 1 cm.
4. Place a bitumen sheet 60 cm x 60 cm in the adapted cutout.
5. Cut a hole for the outlet pipe.
6. Apply an unbroken mastic seal around the hole for flame stop.
7. If the roof outlet is not to be installed in a watertight socket, an O-ring or a back pressure sealing must be installed on the outlet pipe.
NB: The O-ring cannot be placed in a slanting position and it must roll into the drain pipe.
8. Insert the roof outlet in the downpipe and into the cutout.
NB: The outlet's flange must be fully supported by an even surface in the cutout.
9. Fasten the roof outlet through the assembly holes in the corners of the steel flange.
10. If the roof outlet does not come with a pre-installed bitumen membrane, now torch a sheet of bitumen membrane, 50 cm x 50 cm, onto the outlet's steel flange.
11. Torch the roof outlet's bitumen membrane to the bitumen sheet which was placed in the cutout (see section 4)
12. Torch the roof's bitumen membrane lengths onto the top of the roof outlet with an offset of 10 cm from the edge of the cutout – leaving approx. 40 cm x 40 cm without additional membrane. See figure 1.

The membrane lengths must be joined with overlaps which are offset from the center of the roof outlet. See figure 1.

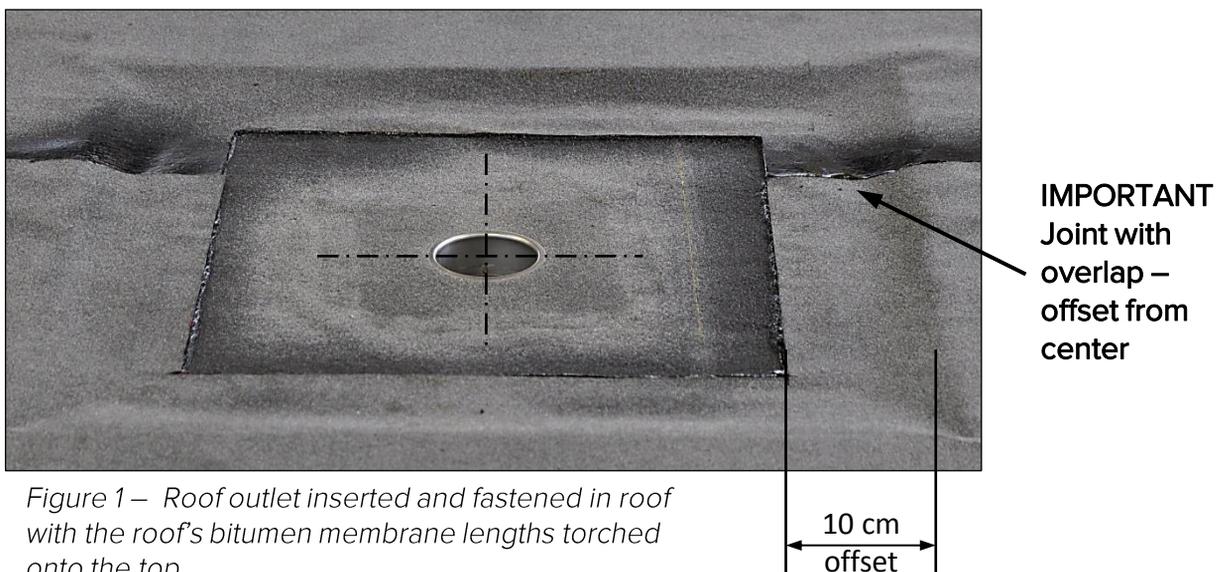
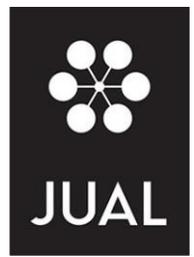


Figure 1 – Roof outlet inserted and fastened in roof with the roof's bitumen membrane lengths torched onto the top.

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13. Torch a piece of top layer 60 cm x 60 cm onto the installed outlet.
14. Cut the top layer membrane open so water can pass through the outlet to the drainpipe.
15. Torch the roof's top layer membrane lengths onto the roof outlet. Place it with 10 cm offset from the cutout, leaving an opening of appr. 40 cm x 40 cm. See figure 2. The bitumen membrane lengths must be joined with overlaps.
16. Install JUAL leaf grate
17. JUAL outlet is now fully installed.



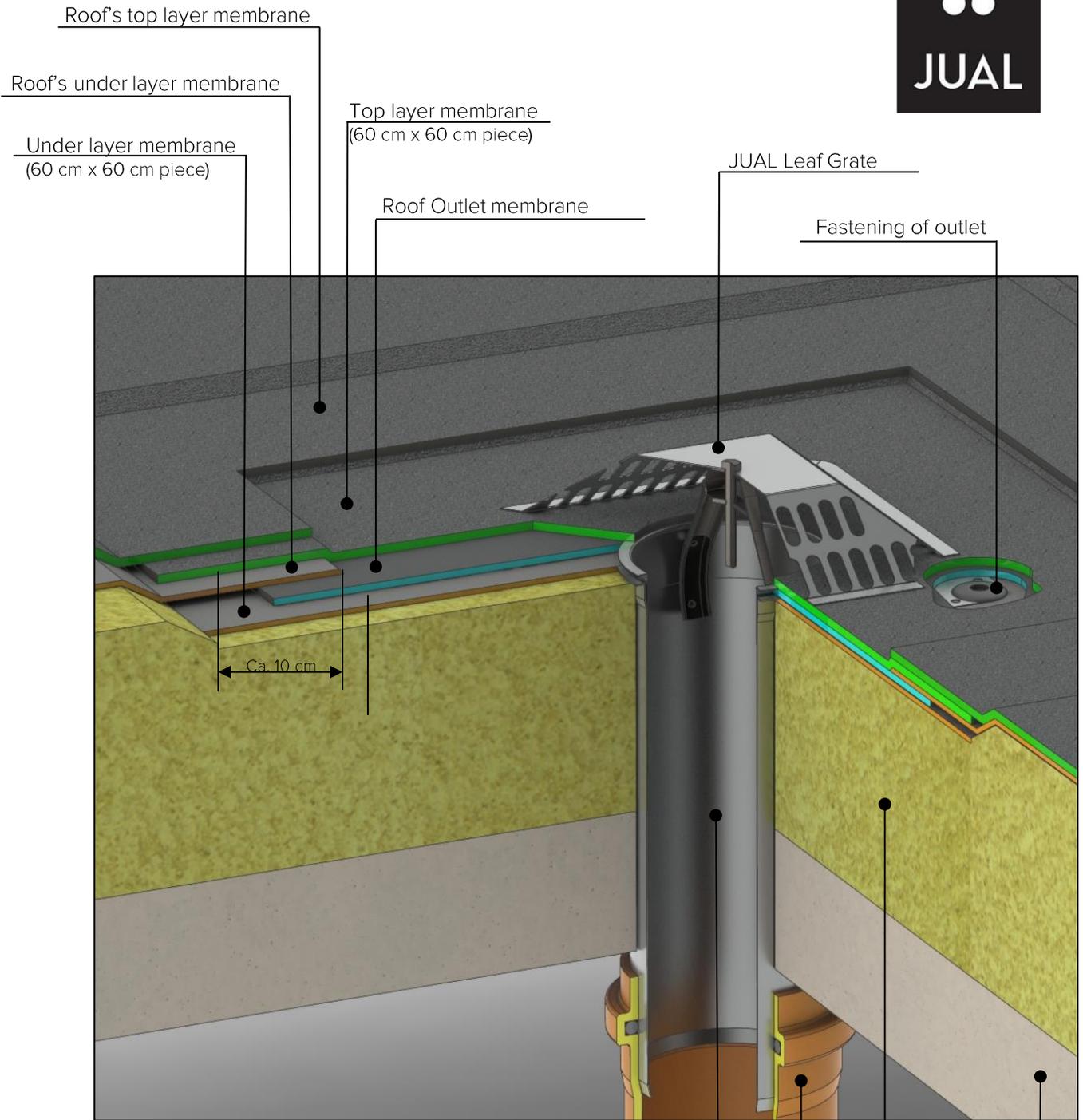
Figure 2 – Roof outlet fully installed with overlapping bitumen membrane lengths and leaf grate.

IMPORTANT

By installation of a roof outlet it is not recommended to use a burner head larger than $\text{Ø}45$ in order to limit the heat and avoid that the bitumen sheet detaches from the outlet's steel flange.

A precondition for installation of outlets is that the bitumen on the roof around the outlet has been installed and fastened correctly according to trade and/or manufacturer recommendations.

To ensure the functionality of the roof outlet after installation, outlet and leaf grate must be cleaned and the water must have clear passage to the outlet.



JUAL Roof Outlet for flat roof with 2 layer bitumen membrane

*The outlet must be installed according to the methods shown regardless of the actual design of the roof.
By larger deviations in the design of the roof, the designer should be contacted.*

JUAL Roof Outlet

Insulation

Drain Pipe (with socket)

Roof deck