



ROOFER'S CHOICE

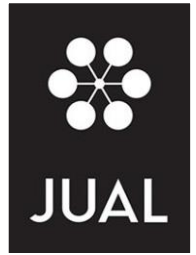
JUAL ROOF OUTLET

FOR FLAT ROOF
WITH 1 LAYER OF BITUMEN MEMBRANE



INSTALLATION INSTRUCTION

INSTALLATION INSTRUCTION – JUAL ROOF OUTLET



- FOR FLAT ROOF WITH 1 LAYER OF BITUMEN MEMBRANE

1. Check that the roof 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 roof 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 UV-resistant 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. **NB:** If the roof outlet comes with a bitumen membrane which is not UV-resistant, now torch a sheet of UV-resistant bitumen membrane, 60 cm x 60 cm, on top of the installed roof outlet.

Torch the roof's membrane lengths onto the outlet with an offset of 10 cm from the edge of the cutout – leaving approx. 40 cm x 20 cm without additional membrane. See figure 1.

The bitumen membrane lengths must be joined with overlaps. See figure 1.

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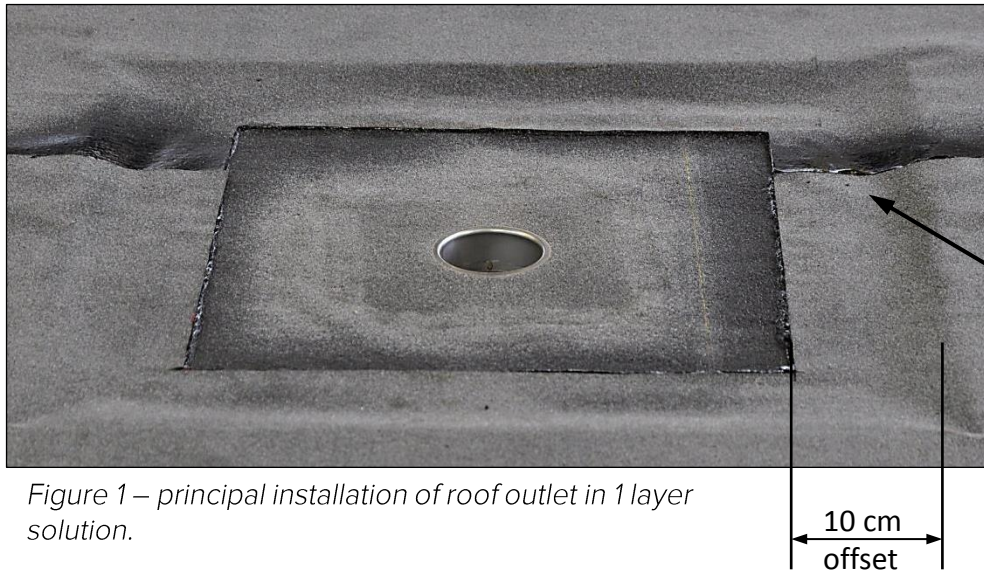
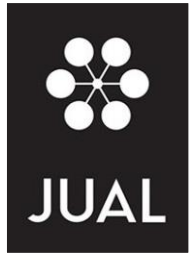


Figure 1 – principal installation of roof outlet in 1 layer solution.

13. Install JUAL leaf grate.
14. JUAL Roof Outlet is now fully installed.

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.

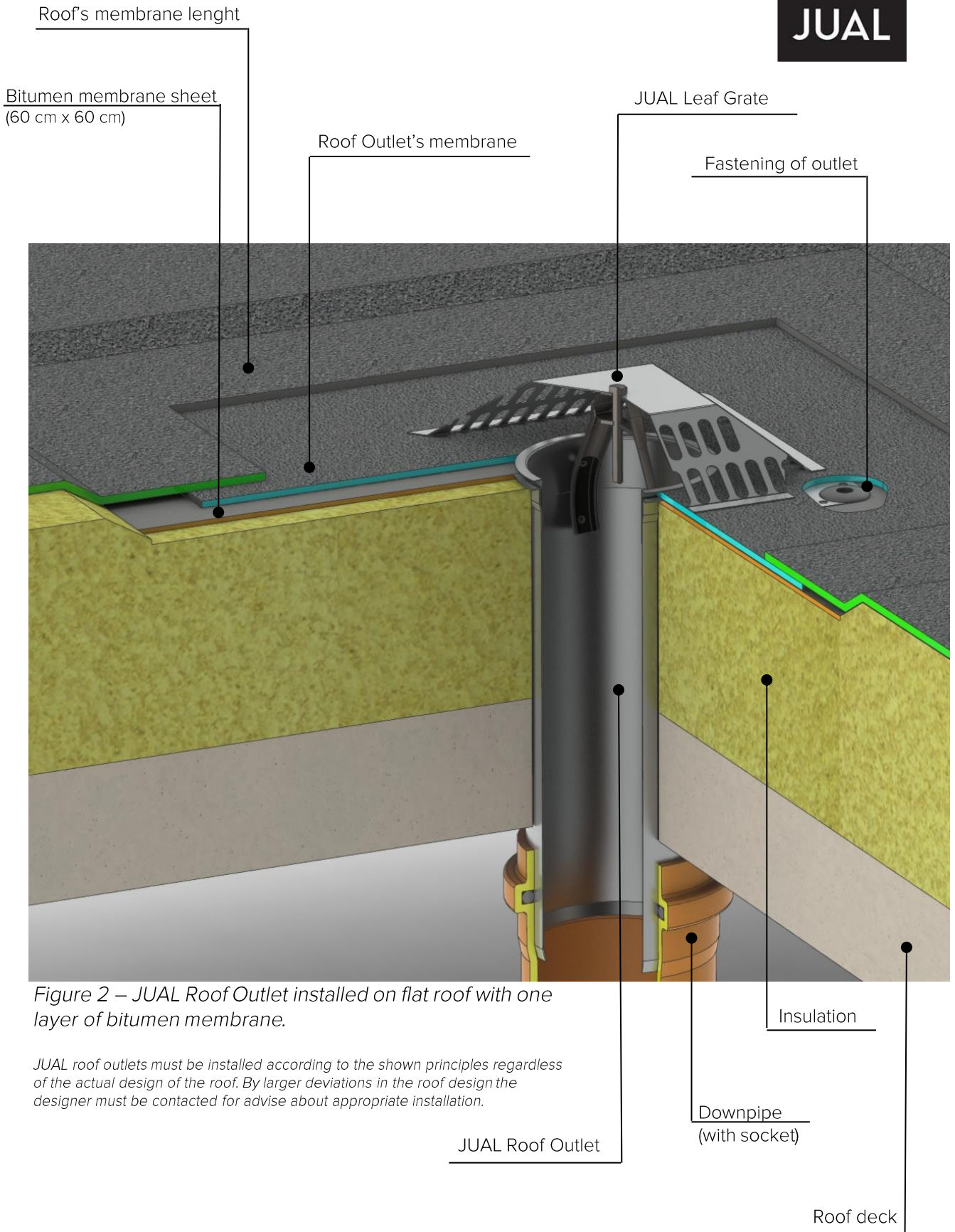


Figure 2 – JUAL Roof Outlet installed on flat roof with one layer of bitumen membrane.

JUAL roof outlets must be installed according to the shown principles regardless of the actual design of the roof. By larger deviations in the roof design the designer must be contacted for advise about appropriate installation.