

TECHNICAL BULLETIN

Installation instruction for the FDT VarioGully outlet with EPDM connection collar

This illustrated step-by-step guide walks you through the professional installation of the FDT VarioGully system with an EPDM connecting collar under normal conditions, ensuring a durable and functional connection to the roof waterproofing.

Required tools / materials

- FDT VarioGully
- FDT VarioGully warm roof attachment
- Fasteners + screwdriver
- Pre-fabricated EPDM collar
- Insulation knife
- Caulking gun
- Elevate Water-Block Seal (S-20)
- EPDM-Primer (e.g. Elevate QuickPrime Plus / QuickPrime Primer TF)
- QuickScrubber handle plate & QuickScrubber pad
- Penny roller & silicone pressure roller
- Marking pen for EPDM (white)
- Scissors

Step-by-Step Instructions

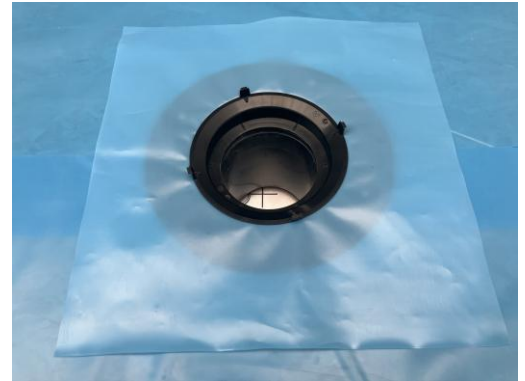
1. Mounting the FDT VarioGully Base Element onto the Vapor Barrier

The VarioGully base element is positioned over the prepared cutout in the substrate. Place the element flat onto the existing vapor barrier. Next, secure the base element firmly into the substrate (4 screws) using screws suitable for the respective substrate material to ensure a secure hold.



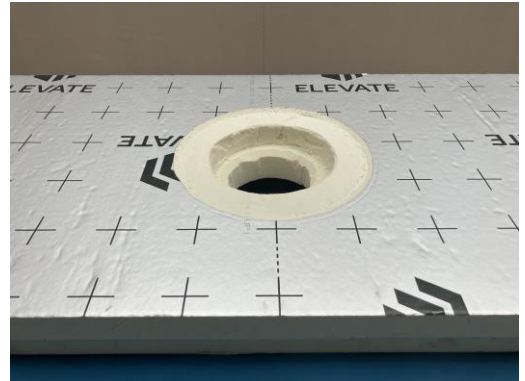
2. Preparation and Installation of the Vapor Barrier Collar

Prepare a vapour barrier collar by cutting out a square piece of existing vapour barrier material. Create a circular hole in the center, matching the size of the previously installed inlet area of the VarioGully. Insert the screw ring into the prepared vapor barrier collar. Place the vapor barrier collar along with the screw ring onto the base element and screw it tight. The vapor barrier collar can now be connected all around to the main vapor barrier using appropriate connection method.



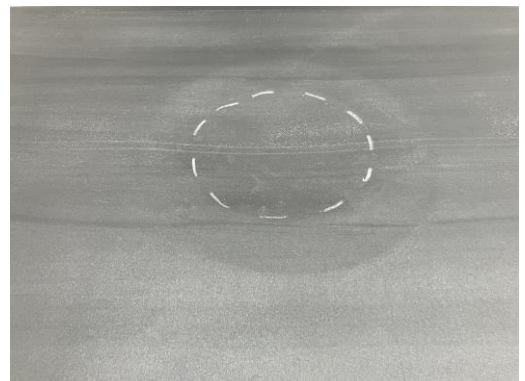
3. Installing the thermal insulation and preparing the cutout

Lay the insulation material over the entire surface of the installed base element. Use a suitable insulation knife to cut out the hole in the insulation material so that it fits precisely over the base element. This exact cutout is necessary so that the subsequent warm roof extension can be fitted flush later on and thermal bridges are prevented.



4. Installing the EPDM roofing membrane and marking the cutout

Lay the EPDM roofing membrane over the entire surface of the prepared cutout in the insulation. When laying it out, make sure that no factory-made seams of the roofing membrane run through the immediate connection area of the drain outlet. If this is the case, this area must be replaced with a piece of EPDM without a factory seam. Mark the circular cutout for the warm roof attachment on the roofing membrane. The cutout must be strictly circular. No cross-cuts may be made. Carefully cut out the marked circle using scissors.



Note for non-adhered roofing systems:

For the non-adhered roof, mechanical fixation of EPDM membrane around the drain outlet area should be made. This could be done by using RPFS (Reinforced Perimeter Fastening Strip) as a closed frame around the outlet and fix it to substrate using appropriate fasteners and plates/metal bars with max. spacing of 100 mm o.c.

5. Applying the sealant (Water-Block Seal)

Apply the Elevate Water-Block Seal (S-20) in a continuous, approx. 1 cm wide circular bead onto the main EPDM roofing membrane surrounding the cutout hole (slightly offset outward). The bead must be positioned so that it lies within the subsequent contact area of the flange of the warm roof attachment.



6. Fitting the warm roof attachment

Before inserting the warm roof attachment, apply the lubricant supplied with the FDT VarioGully to the lower end of the extension pipe. This is necessary because there is a rolling ring inside the Vario base element, and the lubricant allows for easy and damage-free insertion. Insert the warm roof attachment straight into the prepared cutout and push it down to the desired depth. Press the flange of the extension firmly onto the EPDM roofing membrane and the previously applied Water-Block Seal.



7. Positioning and marking the EPDM connection collar

Place the pre-fabricated EPDM collar with the integrated circular cutout centered over the pipe of the installed warm roof attachment. Mark the outer edge of the collar on the underlying main roofing membrane using a suitable marking pen. Position the edge marking with a small, uniform safety margin outside the collar edge. In the next step, this line will serve as a guide marking for applying the primer. This slight overlap ensures that the primer later works across the entire surface under the whole collar and extends beyond the collar edge.



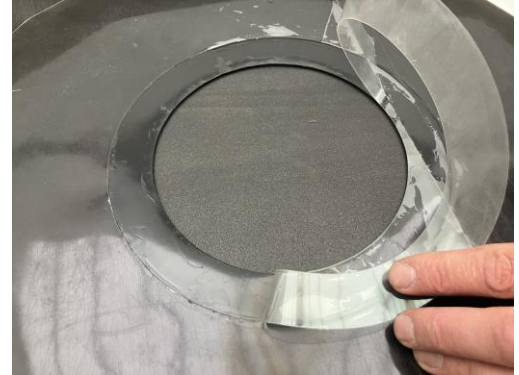
8. Applying the EPDM primer

Use Elevate QuickPrime Primer for the pretreatment. Using a QuickScrubber handle with a QuickScrubber pad attached, apply the primer in a single step to both the flange of the warm roof attachment and the surrounding main EPDM roofing membrane. Use the previously marked line as a guide. Make sure that primed area extend slightly beyond the marked line. Allow the primer to flash off completely (perform a touch push test) before proceeding to the next step.



9. Partially peeling off the protective film and inserting the screw ring

Carefully peel the inner, circularly die-cut strip of the protective film (located directly around the center hole) off the adhesive layer. If the protective film does not come off easily, it can be carefully scored along the embossing using a suitable cutting tool. The remaining outer protective film stays on the collar for now. Turn the collar back over and insert the screw ring into the collar hole from the top side.



10. Positioning the collar and tightening the screw ring

Place the prepared EPDM collar, together with the inserted screw ring, over the pipe of the warm roof attachment. Since the inner strip of the protective film has already been peeled off, the self-adhesive layer bonds instantly upon contact with the primed flange. Then, tighten the screw ring (Retighten the screw ring several times). This permanently presses the collar tightly onto the flange of the warm roof attachment in the inner connection area, ensuring a durable seal.



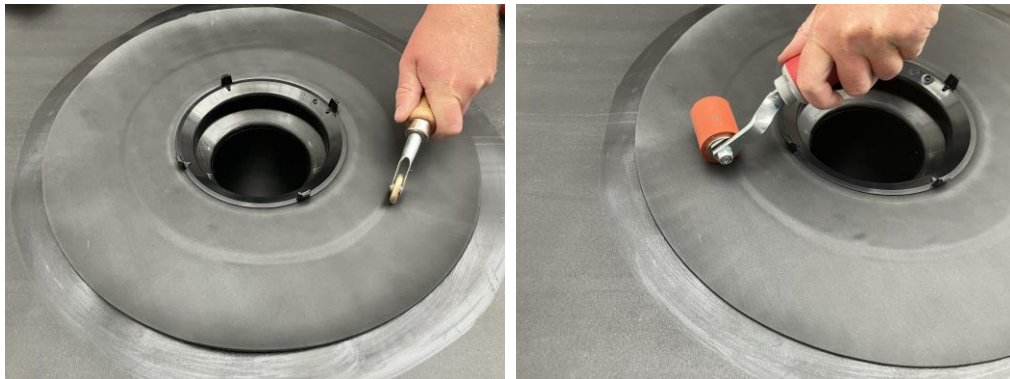
11. Removing the protective film and pressing down the collar

Now, pull the remaining protective film out slowly and lay flat from underneath the EPDM collar. Continuously press the collar down while removing the film. Work systematically from the inside (starting from the screw ring) slowly outward. Working from the inside out ensures that no air pockets form and that the collar adheres cleanly to the pretreated roofing membrane.



12. Pressing down the collar with rollers

Carefully roll down the direct transition from the plastic flange to the main EPDM roofing membrane using a penny roller. This ensures that the EPDM material lies tight in the seam area between the two materials without any voids. Then, firmly roll down the remaining surface of the collar with a wider silicone roller. Always guide the silicone roller systematically from the inner area (screw ring) outward. This even pressure from the inside out prevents air pockets from forming.



13. Sealing the front edge of the seam with Lap Sealant

The front edge of the seam is now sealed all around using Lap Sealant and smoothed flat with an EPDM strip.



13. Installing the leaf guard and competition / final inspection

Finally, place the leaf guard onto the screw ring. Press the guard down gently until it securely snaps into the designated notches on the ring. The detail work is now complete. During the final visual inspection, the primed area should extend beyond the EPDM collar edge, which is essential for the good connection between the EPDM collar and the roofing membrane. Rolling of this detail using rollers is equally important to ensure the watertight seal.



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