

TECHNICAL BULLETIN

Installation Instructions for the FDT VarioGully System with TPO Collar

These illustrated, step-by-step instructions provide detailed guidance on the proper installation of the FDT VarioGully system with a TPO collar under normal conditions to ensure a durable and functional connection to the roof membrane.

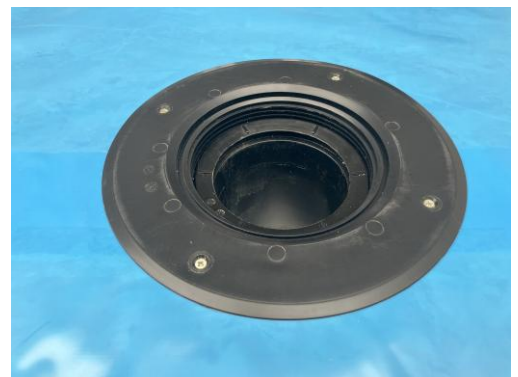
Tools / materials required

- FDT VarioGully
- FDT VarioGully warm roof extension
- Fastener + Cordless screwdriver
- TPO prefabricated collar
- Insulation cutter
- Cartridge press
- Elevate Water-Block Seal (S-20) Water Stop
- Hand-held welding machine + Teflon pressure roller

Step-by-Step Instructions

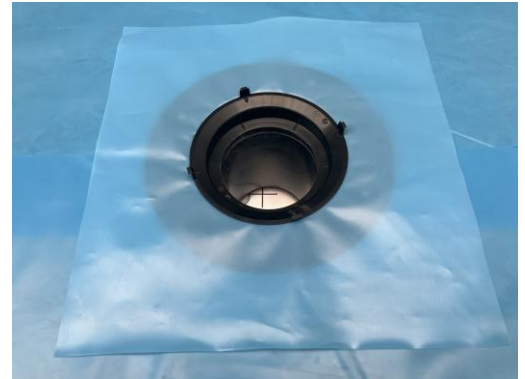
1. Installation of the VarioGully base unit onto the vapor barrier

The VarioGully base unit is positioned over the prepared cut-out in the substrate. Place the element flat on top of the existing vapor barrier. Next, securely fasten the base unit to the substrate using screws appropriate for that substrate to ensure a secure hold.



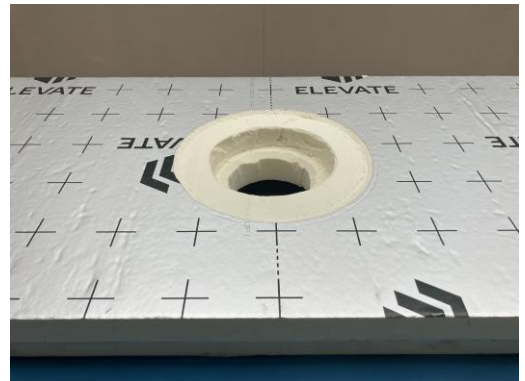
2. Preparation and installation of the vapor barrier collar

Cut a collar of the appropriate size from the available vapor barrier material. Cut a circular opening in the center that matches the size of the VarioGully's inlet area, which was installed earlier. 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 tighten it securely. The vapor barrier collar can now be connected all the way round to the vapor barrier in a vapor-tight manner using the appropriate system accessories.



3. Laying the thermal insulation and preparing the cut-out

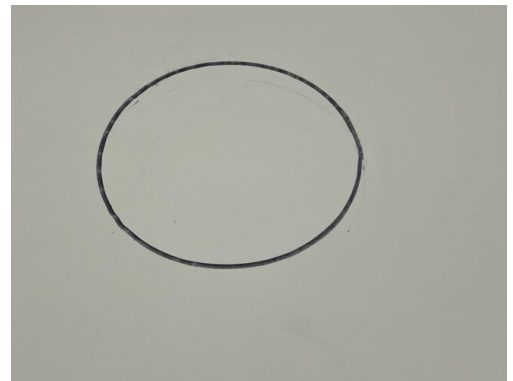
Lay the insulation material over the entire surface of the installed base unit. Use a suitable insulation knife to cut out the opening in the insulation material so that it fits precisely over the base unit. This precise cutout is necessary so that the warm-roof extension can be installed with a tight fit later on and to prevent thermal bridges.



4. Laying the TPO roofing membrane and marking the cutout

Lay the TPO roofing membrane over the entire surface of the prepared cutout in the insulation. When installing the roofing membrane, be sure that no welded seams run through the immediate area surrounding the VarioGully. If this is the case, this section must be replaced with a piece of TPO that does not have welded seams. Mark the hole for the warm-roof extension in a circular pattern on the roofing membrane. The cutout must be perfectly circular.

No cross-cuts are permitted. Carefully cut out the circled area with scissors.



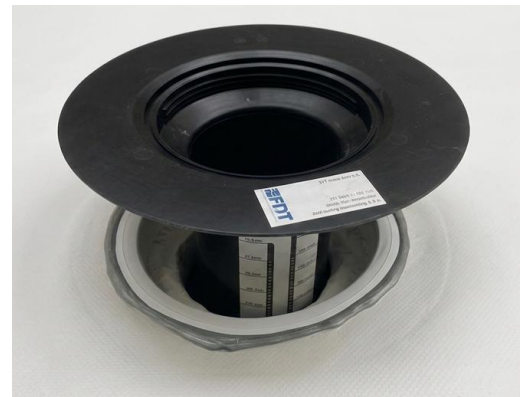
5. Applying the Sealant (Water-Block Seal)

Now apply the Elevate Water-Block Seal (S-20) in a continuous strip approximately 1 cm wide, running in a circle around the recess on the TPO flat roof membrane (slightly offset toward the outside). The sealant must be applied so that it is located in the area where the warm-roof extension will later be.



6. Installing the warm roof extension

Before inserting the warm-roof attachment, apply the lubricant, supplied with the VarioGully, to the lower end of the warm-roof extension. This is necessary because there is a roller ring inside the VarioGully base unit, and the lubricant allows for smooth, damage-free insertion. Insert the warm-roof extension straight into the prepared opening and slide it down to the desired depth. Press the flange of the extension firmly onto the TPO roofing membrane and the Water-Block Seal, that was applied earlier.



7. Place the collar and tighten the screw ring

Place the TPO collar, together with the inserted screw ring, precisely over the pipe of the warm-roof extension. Next, tighten the screw ring securely (re-tighten the screw ring several times). This ensures that the collar is permanently pressed tightly onto the flange of the warm-roof attachment in the inner connection area.



8. Welding the TPO prefabricated collar

Use hot-air welding (400°C to 450°C) to weld the assembled TPO collar all the way around so that it forms a watertight seal with the roofing membrane. To do this, use a Teflon pressure roller.



9. Installing the leaf guard and finishing up

Finally, place the gravel/leaf guard onto the screw ring. Gently press the leaf guard until it audibly and securely snaps into the notches provided on the screw ring. The detailing is now complete.



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