

Insuct Installation Instructions

Insuct is a product recognised by WRAS that allows a new water supply pipe to enter a building outside the recommended minimum depth of 750mm. It should be noted that this product is an alternative option for use in situations where it is difficult to obtain the required minimum depth into a property due to structural reasons. This product should be installed by exception only, with notification being sent to SES Water before installing the product. It is imperative to follow the clear instructions listed below.

Installation Requirements

The customer must agree and sign off with their contractor that they are happy to progress with the product and that they have a clear understanding of what it does. It must be clearly explained that it should only be used as an alternative method to obtain entry into the building rather than using the preferred traditional method of ducting the pipe underground at a minimum depth of 750mm as described in the Water Supply (Water Fittings) Regulations 1999.

Whoever is responsible for installing the product and signing off the works (to say that it has been installed to the manufacturer's standard) must take clear photographic evidence at each stage in the installation process. A WIAPS, TAPS 5 or an equivalent approved installer can self-certificate the work, but they must send the relevant signed certificate and photographs of the installation in with the agreement signed off by the customer. Verbally informing SES Water of completed works is not acceptable. All correspondence must be sent to the Developer Services team.

The sign off should be on the understanding that any action that compromises the product, for example cutting the casing, excessive removal of the insulation around the pipe or elbow fitting if

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one is used, will compromise the thermal protection of the product and may result in the whole product needing to be replaced.

Key Points from the Insuct Installation Diagram

Section 1: Drill a hole that is at least 90mm in diameter through the wall of the building and fit a suitable sized length of duct to house 32mm thick insulation around the pipe. The company who supply Insuct have a product called Shallduct that they recommend should be used for this purpose. The pipe is then sleeved through the insulation inside the duct. When the product is completely installed all insulation should sit flush against each other, so there are no gaps. Any spaces between the insulation and duct can be sealed internally and externally at either end of the duct; an oil-based sealant should not be used, as this could leach into the plastic water pipe and lead to taste issues. Sealing the duct prevents the ingress of vermin, liquids or gases entering the property through the duct.

Section 3: There should not be any excessive removal of thermal insulation inside the Insuct product, otherwise that would compromise the thermal properties of the product.

Section 4: The pipe must be laid at a depth of 750mm minimum and 1350mm maximum to the crown of the pipe all the way along the trench up to bottom of the Insuct which is the point of entry for the property. There should not be any premature raising of the pipe on the approach to the Insuct, and it will be necessary to insulate any pipework inside a duct to protect any pipework less than 750mm deep below the base of the Insuct. A 'hockey stick' is our preferred method for installing pipework inside the Insuct because the insulation fits tightly around the hockey stick. This allows for the 90-degree

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coupling to be fitted underground and prevents the risk of any damage to the insulation that occurs when a transitional coupling is fitted inside Insuduct. The insulation inside the product is only designed to fit around the MDPE pipe and does not allow for a bulky coupling to be fitted.

If any part of the pipework at the base of the trench is less than 750mm it must be insulated and protected inside a length of ducting with appropriate insulation.

The plate that is screwed against the wall should be sealed between the wall and product with a sealant that will protect it from wind chill.

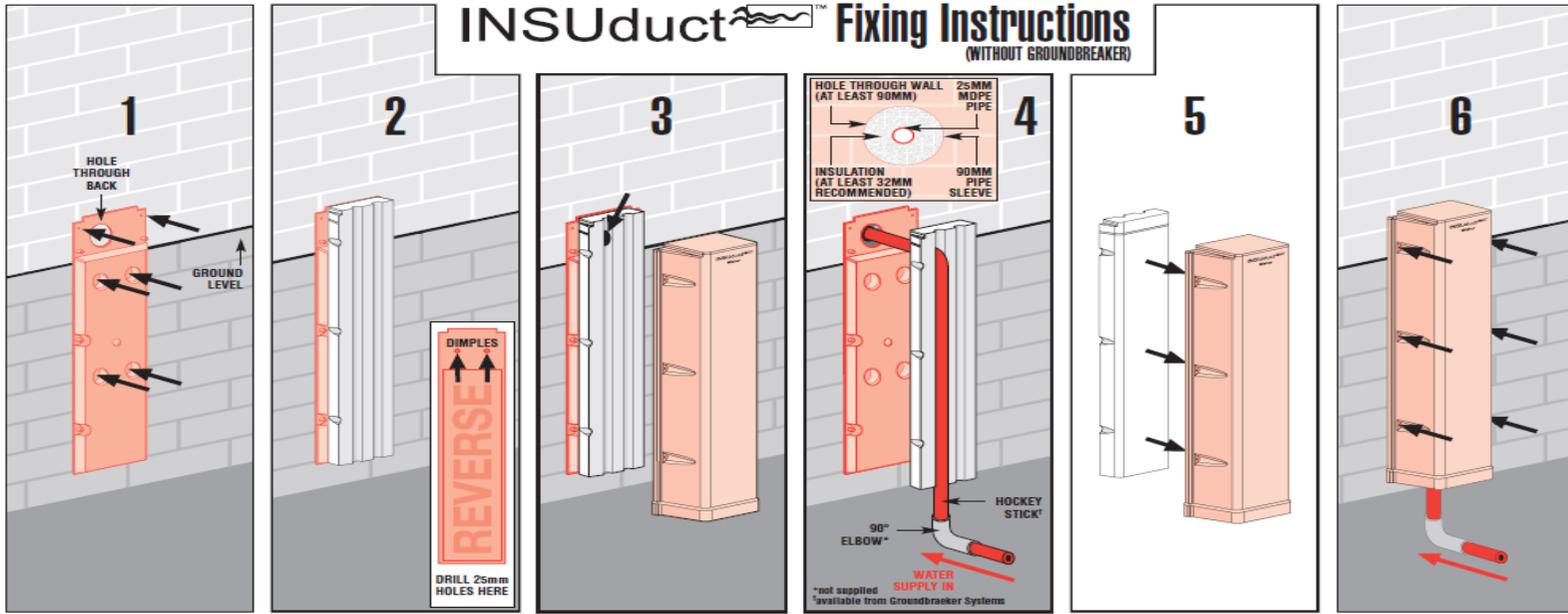
The Insuduct fixing instructions are shown on the following page. Note that these instructions are correct at time of writing. However, care should be taken to verify that these are correct for the product you have purchased. SES Water accept no liability for the installation of this product at your site.

Please contact our Water Regulations team for more details at:

waterregulations@seswater.co.uk

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1. Locate water service pipes and select location for INSUduct as required. Open the packaging and put aside screws and fixings for future use. Remove back plate (black plastic) and offer to wall or post. Mark fixing points (a minimum of 4 is required). Put aside the back plate and drill the wall with a 6mm drill bit. Insert wall plugs and then fix back plate to wall / post with the screws provided (38mm No.10).

2. Take rear insulation part, align to top of backplate and press firmly on to the lugs provided.

3. Cut out appropriate slots in insulation and INSUduct outer shell for pipework.

4. Bring water service pipe to 'hockey stick' using a 90° elbow or as required.
Compliant with Building Regulations and Water Regulation Guide (G7.1 & G7.2), line the hole in the wall with a short length of pipe and insulate with at least 32mm of insulation (not supplied with INSUduct).

5. Ensure the front insulation is correctly in the outer cover.

6. Apply the outer cover (with insulation within) onto location lugs on back plate and fix with 6 No.19mm No.10 S/T screws provided.
Clean backfill excavation as required.

For 'climbing' INSUduct, repeat instructions rising up the face of the building (Bellmouth Fitting).

INSUduct™ GB0107

water fact sheet