

Clearview Intelligence M210 Solar Powered Logging Stud

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Introduction

Always read these instructions even if you are familiar with the installation process for Clearview Intelligence Logging Studs.

Under no circumstances should the M210 Solar Powered Logging Stud be dismantled. Failure to comply with this or these installation instructions will invalidate the warranty.

The positioning of the installed studs should conform with the existing laws and regulations, where applicable, of the country of installation.

Correct installation is essential if the M210 Logging Stud are to achieve good adhesion to the road surface. It is the responsibility of the installer to ensure that road construction and weather conditions are suitable for the installation of studs.

 Do not attempt installation work if the road surface is wet, damp or when the road/surface temperature is below 0°C.

 Ensure that the correct Personal Protection Equipment is worn at all times.

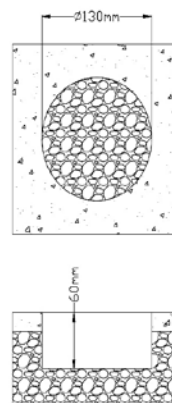
Installation Step by Step Instructions

Step 1

Using chalk or an environmentally friendly aerosol spray, accurately mark on the road surface, the correct positions for the stud cavities.

Step 2

Drill a circular hole, 130mm (± 2 mm) by 60mm (± 2 mm) deep with a core cutter that produces a flat-bottomed cavity with perpendicular sides. The core cutter can be of the wet diamond core type or the tyne based router type (used for Halifax studs). Endeavour to ensure that the top rim of the hole is maintained.



Step 3

After drilling, remove the centre core from the cut to expose the cavity. Make sure the bottom of the cavity is flat. If necessary, trim flat.

Step 4

Ensure all cavities are clean, dry, and free from dust and debris prior to installation. If any cavity shows signs of moisture; the moisture must be removed either using a compressed air lance or a propane gas torch.



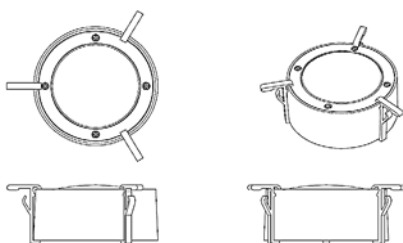
Ensure that the correct Personal Protection Equipment is worn and that blown debris is not directed at persons or vehicles.



Caution should be used when using the gas torch so as not to over heat and damage the cavity. As overheating the road bitumen will allow the polymers to burn off causing the road surface to break up over a short period of time. This in turn could allow the stud to become dislodged from the road.

Step 5


Attach the three installation clips to the stud housing. Position the installation clips onto the base rim of the housing and push the installation clip towards the top of the housing to clamp onto the stud.




The stud housing must be thoroughly cleaned and decontaminated using white spirit applied with a clean lint free cloth. The stud housing must be clean to provide a good bonding surface for the resins and sealants. The stud should be dry before being fixed into place.

Step 6

Mix an appropriate amount of fixative resin. An appropriate grade of two pack bitumen extended epoxy resin should be used, see approved resin note below:

 Approved installation compound is Robnor Polyurethane Stud Sealant EL628SS (referred to as resin).

Always refer to the handling and usage instructions provided with the fixative resin.

 The fixative resin should be poured to a level of 40mm +/- 1mm from the road surface.

If alternative resin is to be used to that recommended, the compound must have a Shore A hardness no less than 75 under all ambient conditions.

Step 7

Insert the stud with its clips attached into the cavity making sure that the stud is flush with the road surface by placing a suitable straight edge across the outer ring of the road stud and the road surface.

Ensure that once the stud is inserted into the cavity some of the installation compound poured in step 7 has been displaced around the edge of the stud.

After the stud is inserted, if required, immediately top up the resin around the edge of the road stud to a level of 1mm (± 1 mm) below the road surface.

Allow a minimum of 30mins to cure. Ensure that the lens remains clean at all times. If the compound gets on the lens, wipe clean immediately. To aid the accuracy of the pour the use of a funnel or pouring jug will be required.

Step 8

Cut away the top of the installation clips using suitable cutters (side cutters).

Step 9

Clean site after the installation and remove all debris from the carriageway.