

# Alternative Bore Casing

## Alternative Materials Available



### Why Not PVC?

If your looking for Hydrocarbons or chemicals in the ground then Pvc is not the best material to be used as the above chemicals will attack the Pvc and very quickly it will be dissolved and disappear, making the bore useless. Below is information on the alternative material you can use for your environmental or borecasing and screen project.

### Steel

Steel has some advantages over PVC one being the depth it can be set at, and the other is the cost of using steel instead of Pvc, unfortunately it has many downsides one being its poor resistance to any chemicals in the ground or water, and electrolysis. If the bore is to be in the ground for a long period then steel is not recommended.

### Stainless

If the bore you are contemplating in putting in is in a harsh environment and the depth is considerable, then a great alternative material to use is stainless steel. Stainless steel specially 316 grade is excellent in most chemical environments, is non tainting and has a considerable life expectation.

The downside is it is very expensive compared to the other plasticize material. Due to its strength it has a very high depth setting capability

### ABS

You can take a sledge hammer to this material and all you will do is tire your arm out, plus it has sensational resistance to chemicals, many process plants use this throughout their manufacturing plant. It is fairly easy to get the sizes that you need, the price is usually approximately double that of Pvc.

Bronze Discharge Column Flange



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## Fiberglass

A very strong material and a great resistance to harsh chemicals, with its high tensile strength deep installations can be achieved.

With the above positives and a complete resistance to electrolyzes many government water boards highly recommend using fiberglass as the bore casing.

Often stainless steel screens are used as slotting of fiberglass is very difficult.

## Polypropylene

It is a very rugged material and fantastic resistance to chemicals and corrosion. Another benefit of this material is in its strength and rigidity it has a very high impact and temperature resilience.

The downside is the range and supply of this pipe is limited

## HDPE

When your project calls for a shallow setting and you are only looking for hydrocarbons then HDPE is the material for you.

DEPS has supplied 50mm poly casing and screens on many occasions and the majority being overseas, the material has excellent resistance to hydro carbons, is light weight and can be made in any lengths.

Its weakness is its very low tensile strength, making it useless in deep environmental bores. In shallow bores then this material will be fine, water well drillers do not like this material due to its molecular weight being lighter than water makes the material float when in water. In a particular job the driller came back the next day to see his recent installed bore casing above the ground for 20m plus in the air. This was caused by floating characteristics.

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