

POLYBENCH[®]

Designed to guide wastewater smoothly into the main channel, our PolyBench[®] system offers a modern, durable alternative to traditional concrete. It's lightweight, resistant to corrosion and chemicals, and provides a smoother surface that reduces maintenance and increases lifetime compared to traditional install methods of haunching and benching.

PolyBench[®] is a method used to form channel in the base of a manhole so that the the sloped surfaces — known as “benching” — at the base of a manhole can be poured using concrete up to the PolyBench[®] section, with the open aperture box providing visibility of flow through the pipeline.

We offer two standard setups which are our 600 series and 950 series:

1) PolyBench[®] 600 Series

Installed internally of manhole chamber for internal pipe connections within benching pour

2) PolyBench[®] 950 Series

External corbel connection where PolyBench[®] will have long legs for external corbel and pipe connections (and then manhole riser installed later)

Because HDPE PolyBench[®] is prefabricated, it allows for faster installation with consistent quality, making it ideal for either new pipelines or rehabilitation projects.

We can also supply Fibreglass grating to locate on top of benching opening to ensure no risk to contractors servicing the chamber at a later date.



BENEFITS

- Installation timeframes significantly quicker than traditional benching
- Flexibility of design to suit your site
- Suitable for all types of pipelines or differing inlet and outlets (for example HDPE outlet, to existing AC on inlet pipeline)
- Quick changeovers if on existing pipeline minimising shutdown, overpumping etc
- Permanent solution - long life benefits of HDPE
- Connections can be made live before benching concrete has set
- Technical drawings provided for your clients signoff

OUR PROCESS

01.

CONFIRMATION

Pipe connections
PE / AC / PVC+

02.

DESIGN

Invert levels
Angles
Benching height

03.

COSTING

Costing and
design sign off

04.

FABRICATION

Fabrication and
delivery

05.

SITE CHECK

Site check to ensure
everything is correct
before install



Ultimate Solutions.
Intelligent Delivery.

upg PIPE
SYSTEMS

EXAMPLE PROJECT

Below is the process for our PolyBench® installations and design when you work with UPG. Some of the project images displayed are from recent work done at Auckland International Airport.

THE SITUATION

You provide site plans to our team and we get to work, confirming the pipe inlet & outlet material types and angle of the PolyBench®.

DESIGN

The UPG technical team put together design and initial drawing with any suggested changes to ensure fabrication can be achieved in our workshops.

COSTING & SIGNOFF

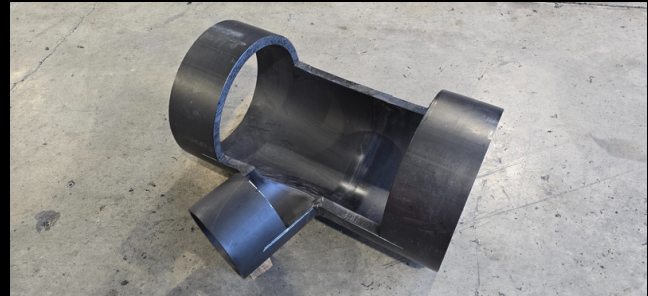
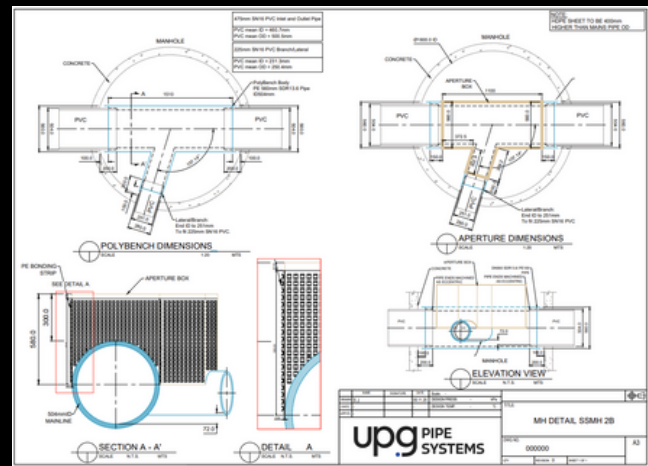
At this stage client to check drawing, provide feedback and confirm final invert levels. Costing also is also confirmed at this stage.

FABRICATION & DELIVERY

We'll begin fabricating your PolyBench® section in our workshop and then arrange delivery to your site.

SITE CHECK

Once arrived on site it is important to do a final site check before performing your cut-in or install.



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upg PIPE SYSTEMS