



FLUOROCARBON

CASE STUDY

PTFE PIPE SUPPORT



THE CHALLENGE

The client had specified a flat plate of plastic material on which fluid transfer pipes would rest.

The purpose of the plate was to allow thermal movement of the pipework whilst isolating these forces from the supporting structure.

THE SOLUTION

Fluorocarbon recognised that this was an unsatisfactory solution as the plate would experience a high point load and there was risk of movement of the plate over the substrate if not properly secured.

Movement forces couldn't be guaranteed to remain isolated over the life of the structure and the likelihood of premature failure was high.

THE OUTCOME

Fluorocarbon engineered pipe supports consisting of PTFE pads bonded to stainless steel backing plates.

These were used with a mirror finished stainless steel counter bearings which could be secured to the pipework. This permitted the free movement of pipework and the isolation of expansion and contraction forces from the supporting structure.