

Tying IPEX FUSIBLE™ or TERRABRUTE® CR pipe to a bell and spigot system

Both TerraBrute CR and IPEX Fusible products offer a fully restrained joint once assembled. As such, the assembled string of pipe ends up acting as a somewhat monolithic pipe. Once installed and pressurised, several phenomenon can generate « pull out » forces at the connection points between the fused or restrained section and the rest of the network or accessories (valves, tees, elbows, couplings, etc...) attached to it.

These forces can mainly be generated by:

- Movement in the bore hole
- Poisson Effect
- Pressure surges
- Water Temperature changes

In order to prevent the fused/restrained section from pulling out of a conventional gasketed joint; it must be restrained, through the use of a thrust block or mechanical restrainer, at both ends of the string to the rest of the system. The required length of gasketed joints to be restrained is project specific.

A conservative design would be to consider the fused/restrained string of pipe as a dead-end.

