



12" Duofit Encapsulation Collar Installation at Cranbury Lane, Canning Town.

On 27th October a call was made to R2M regarding a leaking 12" (300mm) CI socket spigot joint in Canning Town.

Will Garrod arrived on site within 1 hour, supported by R2M's Technical Support Engineer Cameron Creed who confirmed that an 'off the shelf' Duofit encapsulation collar would repair the leak, live, without shut down.

Due to the wide tolerance of the fitting, the pipe was well within the range of the fitting. That said, the excavation had been dug out the previous day meaning that no mechanical lifting was available and the component parts would have to be manually lifted into place.

The Duofit collar arrived from Burdens stock and was installed, sealing first time.

Chronological Time Line for the events:

- | | |
|---------|---|
| 9:26am | Call made to R2M requesting initial visit |
| 10:20am | R2M staff attended site and confirmed suitability |
| 13:06pm | Burdens delivered the collar from stock held at Gatwick |
| 16:16pm | Encapsulation complete and sealed |



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A shut off in this case would have potentially put 250 homes and a large retail park at risk, of being without water.

Observations were made during the installation, the main one being that the collar should include a valve for the top vent to allow the completion plug to be installed easily. All future units will include a ¼ turn ball valve + bush & plug at no extra cost.

The installation was deemed a complete success.

Compared to the traditional fabricated collar, benefits have been identified including the cost which has delivered a benefit of circa £3,000. The *off the shelf* units can also be delivered to site within 4 hours whereas the traditional fabricated collar could take up to 24 hours, after the main was callipered. The actual Installation time of each of the solutions is relatively the same, it is the immediate availability of the "off the shelf" that is the critical benefit.



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