



TEST SUMMARY

Product: VIP 160mm Lateral Connector
Test: Maintain 0.5 bar for a period of 15 mins without leakage
Date: 9th June 2022
Location: VIP-Polymers Ltd
Conducted by: Dominic Taylor

Method:

Fit the VIP 160mm lateral adaptor into a 300mm Double walled corrugated pipe, seal the ends of the pipe using stoppers using additional strapping to prevent the stoppers from dislodging. Attach a length of 1000mm, 160mm O.D pipe in to the 160mm lateral connector and seal the end of this outlet using a VIP 160mm end cap.

Preparation:

Hole drilled in 300mm corrugated pipe using 170mm Hole saw drill. This resulted in swarf remnants which were removed using a wire brush and a knife blade. It was important to ensure the hole was drilled in a straight vertical plane as if drilled out of true, the corrugations would prevent the seal from engaging. A continuous drill speed will help prevent the hole saw from snagging.



The seal was then inserted into the 170mm hole and lubricant applied to the internal sealing faces. The 160mm pipe leading edges were chamfered to aid insertion into the seal and the seal was inserted to the required 95mm design depth. The final 10mm was only achievable by using a block of wood on the end of the 160mm plastic pipe with a hammer.

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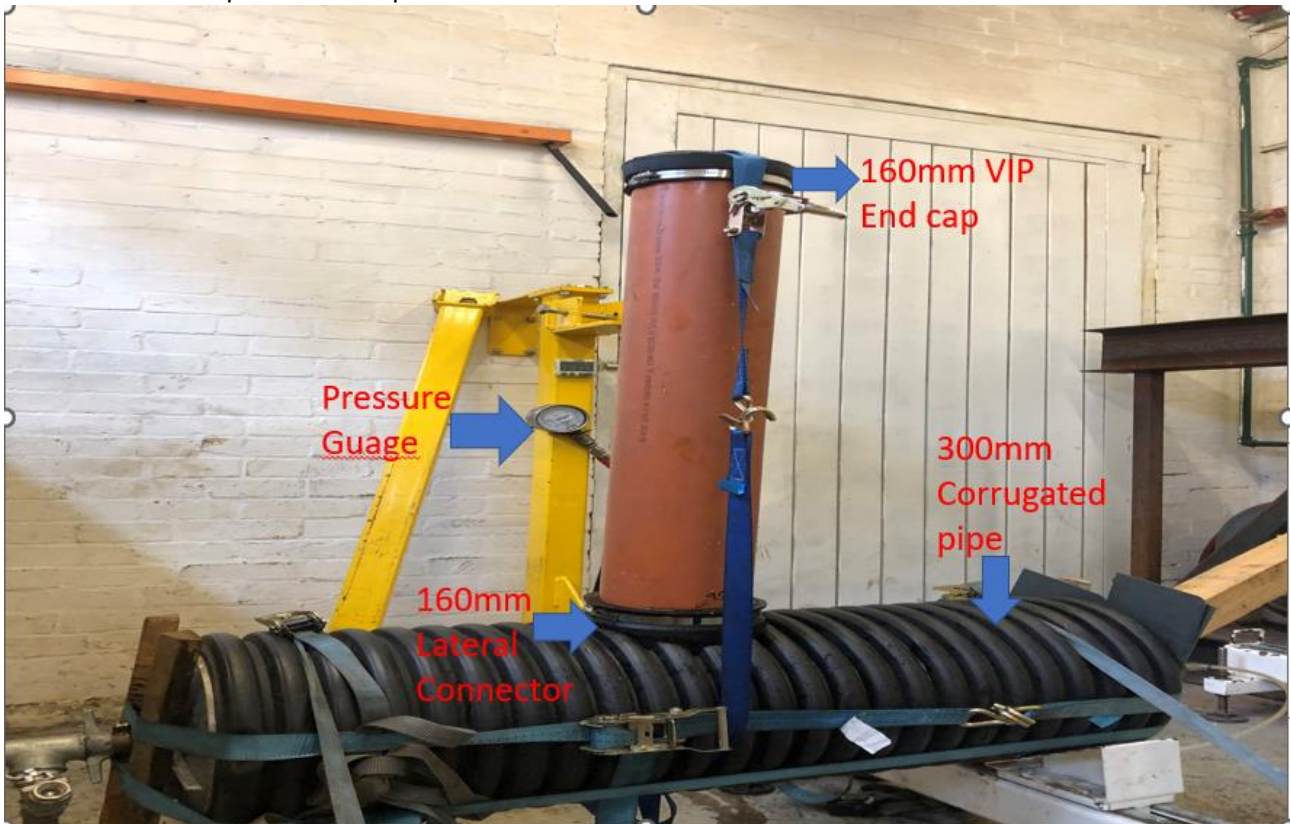
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Pipe stoppers were fitted at either end of the pipe and to prevent these from dislodging, additional restraint in the form of wooden supports were used, these being held in place using strapping. A 160mm end cap was also held in place using strapping to prevent it being dislodged during the test.

Test 1:

At 11:32 on 9th June 2022, the unit was pressurised to 0.5 bar and this was maintained until 11:48 with no visible leaks or drop in recorded pressure.



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Result: No visible leaks after 15 minutes and no pressure drop on the guage.

Conclusion

The 160mm lateral connector seal passed the 0.5bar 15 minute test in accordance with EN295, water tightness without any visible drop in pressure or leakage. The outcome of the test was very much dependent upon correct installation, in particular ensuring the hole is drilled at a straight 90 degree angle, fully De-burred and also that the 160mm outlet pipe is fully inserted (by 95mm) into the seal. A video of the above test is available upon request.

Test conducted by:
Dominic Taylor (VIP-Polymers Ltd) on 09/06 2022

Test verified by:
Jon Crean (VIP-Polymers Ltd) on 9/6/2022

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