## PLUMBING IN REACTIVE AND UNSTABLE SOILS?

AS2870 5.6 & Appendix G in AS3500.2 provides guidance on risk proofing your drainage system against the stress of ground movement

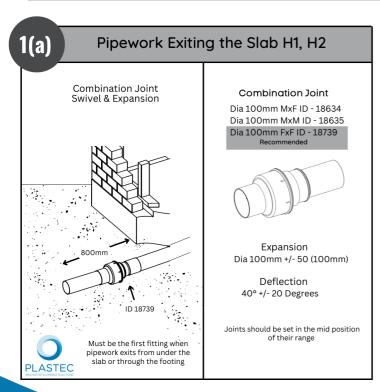


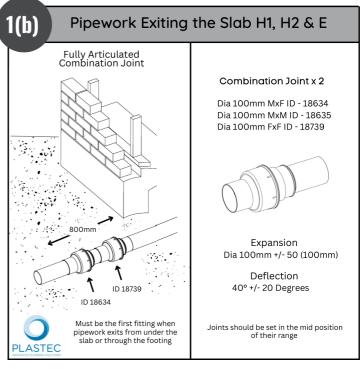
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Soil Class	Soil Type	Differential Movement	Where Pipework Exits the Slab /Footing	Vertical Risers Under the Slab	Stormwater	Graded Risers and Changes of Direction
Α	Most sand and rock sites	0-10mm	Not Required			
S	Slightly Reactive Soil	10-20mm		Not Required	Not Required	Not Required
М	Moderate Reactive Soil	20-40mm	Not Required	Not Required	Expander Joints on Downpipes Recommended	Not Required
H1	Highly Reactive Soil	40-60mm	Combination Swivel (x2) and Expansion Joint, within 800mm of slab Installation of either Clay Plug, Plastic or Concrete barrier	Expander Joints on all vertical risers	Expander Joints on Downpipes	Expander Joints on all graded risers Flexitec Couplings or Swivel Joints downstream of junctions or bends connected to the main drain
H2	Very Highly Reactive Soil	60-75mm	Combination Swivel (x2) and Expansion Joint, within 800mm of slab Installation of either Clay Plug, Plastic or Concrete barrier	Expander Joints on all vertical risers	Expander Joints on Downpipes	Expander Joints on all graded risers Flexitec Couplings or Swivel Joints downstream of junctions or bends connected to the main drain
E	Extremely Reactive Soil	76mm plus	Combination Swivel (x2) and Expansion Joint, within 800mm of slab Installation of either Clay Plug, Plastic or Concrete barrier	Expander Joints on all vertical risers Flexitec Couplings or Swivel Joints on all vertical risers	Expander Joints on Downpipes Flexitec Couplings or Swivel joints downstream of junctions and bends	Expander Joints on all graded risers Flexitec Couplings or Swivel Joints downstream of junctions or bends connected to the main drain
Detail Detail (1a) Detail (1b) Detail (5)				Detail 2(a) Detail 2(b)	Detail 3(a) Detail 3(b)	Detail 4(a) Detail 4(b)

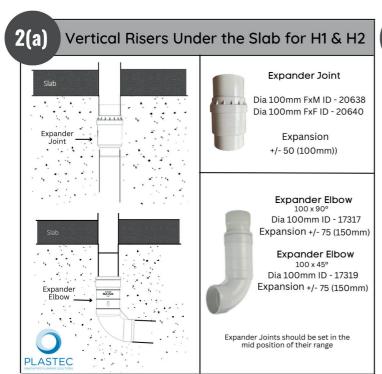


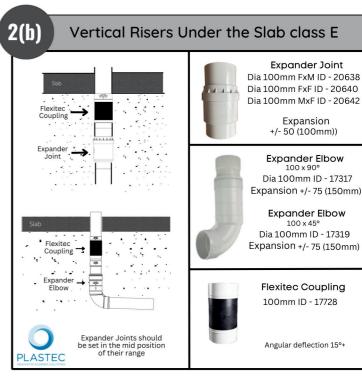


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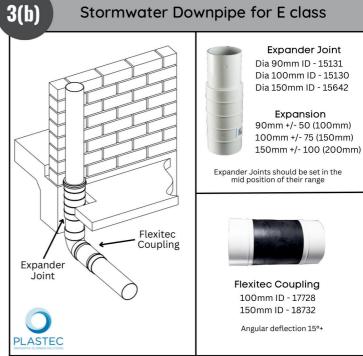


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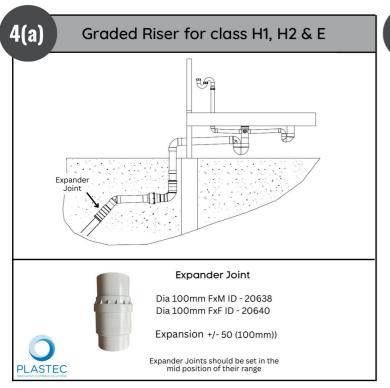


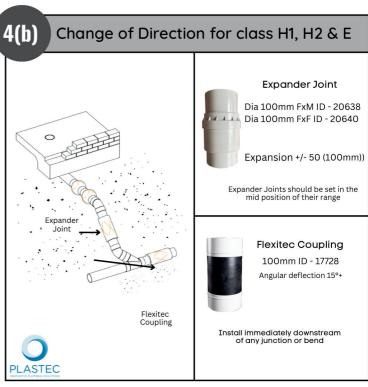


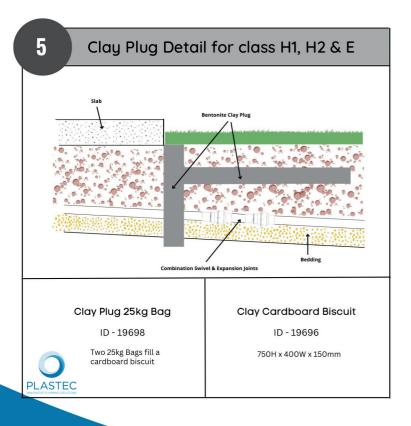
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