

Britpave Soil Stabilisation Checklist APPENDIX A-1

Section	Number	Audit Details	Yes/ No	Comments
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Desk Study & Feasibility Study

1	1.1	Have any "Guidelines for Best Practice" been referred to		
	1.2	Is the Site Investigation easily available		
	1.3	Are the materials in the SI on the list in HA74 App-B		
	1.4	Has TRL447 been used for guidance on sampling and testing in the SI		
	1.5	What is the highest Sulfur Content recorded in the SI		
	1.6	What is the highest Total Potential Sulfate Content in the SI		
	1.7	What is the highest Sulfate Content recorded in the SI		
	1.8	What is the highest Organic Content recorded in the SI		
	1.9	If these materials are above recommended levels - has the client been informed and given a copy of current "Guidelines for sulfate-bearing Soils"		

Laboratory Trial Mixes

2	2.1	Have samples been taken for a laboratory design mix		
	2.2	What was the frequency of sampling		
	2.3	Has a suitably qualified and experienced professional sampled the site		
	2.4	Have samples been taken for chemical analysis		
	2.5	Have the samples been sent to a suitably qualified and experienced laboratory		
	2.6	Have the samples been Classified		
	2.7	Has a range of binders been chosen		
	2.8	Has a mellowing period been chosen		
	2.9	Has the degree of pulverisation been chosen		
	2.10	Has a suitable strength/CBR and/or stiffness been chosen		
	2.11	Has a suitable moisture range been chosen		
	2.12	Has a Swell test been conducted in accordance with HA74		
	2.13	If in the Frost layer has a frost test been conducted		
	2.14	Have the remainder of the samples been kept for in accordance with BS5930 for sufficient time after the report has been issued		
	2.15	Has a Laboratory report been issued to the Client		
	2.16	When was the report submitted to the client		

Britpave Soil Stabilisation Checklist APPENDIX A-2

Section	Number	Audit Details	Yes/ No	Comments
Design & Specification				
3	3.1	Has a suitably qualified and experienced professional assessed the results		
	3.2	Are the results clearly set out by the designer		
	3.3	Has an environmental assessment been conducted, for Noise, Dust and any other potential hazards		
	3.4	Is the water supply available and suitable		
	3.5	Has a maximum Sulfur content been chosen		
	3.6	Has a maximum Sulfate content been chosen		
	3.7	Has a maximum Organic content been chosen		
	3.8	Has a minimum Binder content been chosen		
	3.9	Has the quality of binder been specified		
	3.10	Has a suitable moisture range been chosen		
	3.11	Has a minimum mellowing period been chosen		
	3.12	Has a suitable depth been chosen		
	3.13	Has a suitable overlap been chosen (Horizontal and Longitudinal)		
	3.14	Has a degree of pulverisation been chosen		
	3.15	Has a minimum working temperature been chosen		
	3.16	Has a method compaction been chosen (size of roller and number of passes required)/ <i>or</i>		
	3.17	Has a suitable Target compaction been chosen (Target % of MDD, or Maximum Air Voids content)		
	3.18	Has a suitable maximum working period been chosen		
	3.19	Has a minimum strength/CBR and/or Stiffness been chosen		
	3.20	Has a maximum Swell been chosen		
3.21	Has the frequency of Classification & Chemical checks been stated			
3.22	Have the frequency of Binder content checks been stated			
3.23	Have the frequency of Depth checks been stated			
3.24	Have the frequency of Moisture/MCV checks been stated			
3.25	Have the frequency of Pulverisation checks been stated			
3.26	Have the frequency of Strength Tests been stated			
3.27	Have the frequency of Insitu Density checks been stated			
3.28	Have the frequency of Swell Tests been stated			
3.29	Have the frequency of Frost checks been stated			
3.30	Has a sealing coat been chosen			

Britpave Soil Stabilisation Checklist APPENDIX A-3

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Site Trials

4	4.1	Are Health & Safety policies in place for the specialist work, and have they been issued.		
	4.2	Has a site trial been conducted		
	4.3	Have the materials been reclassified		
	4.4	Are the materials as expected and compliant		
	4.5	Has all the plant to be used, been listed for the client		
	4.6	Have all operators been fully trained with records in place showing any Tool Box talks etc.		
	4.7	Are all materials such as Diesel & Emulsion stored in Bunded Areas with a written policy		
	4.8	Is there an Environmental method statement and is it being followed		

Initial Site Control

5	5.1	Has the Area to be worked been checked for level and laid out as expected (to the correct depth)		
	5.2	Is the strength/CBR and/or Stiffness of the underlying layer suitable		
	5.3	Is the Binder the same quality as used in the Lab design		
	5.4	Has the Insitu Dry density of the soil been checked		
	5.5	Has the Equipment for tray checks been calibrated or		
	5.6	Has the Integrated Hopper been regularly calibrated		
	5.7	Have sufficient binder checks been conducted		
	5.8	Have binder delivery records been kept		
	5.9	Have depth checks been conducted		
	5.10	Has Moisture been added to meet the spec		
	5.11	Has the pulverisation been recorded		
	5.12	Has the material been left to mellow to Specification		
	5.13	Has the material been compacted to Specification prior to Mellowing		
	5.14	Has a suitably qualified Employee/Tech/Organisation been used to conduct the above checks		

Britpave Soil Stabilisation Checklist APPENDIX A-4

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Final Site Control				
6	6.1	Have sufficient binder checks been conducted		
	6.2	Have binder delivery records been kept		
	6.3	Have all areas of excess binder been dealt with properly (e.g. at ends of Bays & around Silo)		
	6.4	Has the depth been adjusted to take into consideration any bulking between mixes		
	6.5	Have depth checks been conducted		
	6.6	Have all samples been taken diagonally across the area		
	6.7	Has Moisture been added to meet the spec		
	6.8	Has the pulverisation been recorded		
	6.9	Has the method compaction been witnessed (size of roller and number of passes required) <i>or</i>		
	6.10	Has a suitable Target compaction been achieved (Target % of MDD, or Maximum Air Voids content)		
	6.11	Have sufficient DD/MC Relationships & Particle Density Tests been conducted		
	6.12	Have sufficient Strength Tests been conducted		
	6.13	Have sufficient Swell Tests been conducted		
	6.14	Have sufficient Frost Tests been conducted		
	6.15	Has the material been suitably protected prior to placing the next layer		
	6.16	Has a sealing coat been applied at the correct rate		
	6.17	If multiple layers, has the level and number of each layer been recorded		
	6.18	Has a suitably qualified Employee/Tech/Organisation been used to conduct the above checks		
	6.19	Have all of the results been recorded as soon as available		
	6.20	Has a final report been written up and passed over to the client.		
	6.21	Have any areas of Non-compliance been clearly brought to the attention of the client		