

**Specifiers Checklist for Subgrade Stabilisation**

**Alternate/ "Or Equal" Performance Testing Evaluation for Subgrade Stabilisation**

Project Name: _____	Original Specified Product(s): _____		
Project Location: _____	Alternate/ "or Equal" Product Under Review: _____		
Project Number: _____	Alternate Product Sample Received: _____	YES	NO
Owner: _____	Alternate Product Manufacturer and Location: _____		
Engineer of Record: _____	Company Name/ Person Proposing Alternate: _____		

**Original Design Parameters**

**Alternate/ "Or Equal" Design Parameter**

1. Loading Condition (Axle load & passes) _____	1. Loading Condition (Axle load & passes) _____
2. Subgrade Strength _____	2. Subgrade Strength _____
3. Subgrade Soil Type _____	3. Subgrade Soil Type _____
4. Currently Approved Geogrid _____	4. Alternate Geosynthetic _____
5. Aggregate Thickness (mm) _____	5. Aggregate Thickness (mm) _____
6. Aggregate Thickness Reduction (%) _____	6. Aggregate Thickness Reduction (%) _____
7. Predicted Mr on top of aggregate (if applicable) _____	7. Predicted Mr on top of aggregate (if applicable) _____
8. Predicted Service Life (if applicable) _____	8. Predicted Service Life (if applicable) _____
9. Predicted Surface Rut Depth (mm) _____	9. Predicted Surface Rut Depth (mm) _____
10. Predicted Subgrade Rut Depth (mm) _____	10. Predicted Subgrade Rut Depth (mm) _____
11. Predicted Elastic Deformation (mm) (if applicable) _____	11. Predicted Elastic Deformation (mm) (if applicable) _____
12. Cost Saving (%) _____	12. Cost Saving (%) _____
13. Materials Savings (m <sup>3</sup> or ton) _____	13. Materials Savings (m <sup>3</sup> or ton) _____
14. Time Savings (days) _____	14. Time Savings (days) _____
15. Environmental Savings (kgCO <sub>2</sub> e) _____	15. Environmental Savings (kgCO <sub>2</sub> e) _____

**Alternate/"Or Equal" Performance Evaluation (Calibration, Validation, and Verification Required)**

**Calibration: Accelerated Pavement Testing (APT) in compliance with NCHRP Report 512 and Synthesis 325**

	YES	NO
1. Full-scale wheel and/or plate load testing performed on the specific product(s) to evaluate performance?	_____	_____
2. Testing performed evaluated surface and subgrade ruts within the range of design parameters?	_____	_____
3. Five case histories provided, on the specific product being supplied, that demonstrate product holds up under normal construction activities?	_____	_____
4. Peer-reviewed and published design methodology?	_____	_____
5. Designed method utilised: _____ of the methodology verifying that this product has gone through proper calibration and validation to the method?	_____	_____



**Alternate/ "Or Equal" Approval Status**

Approved

1. Alternate product has been properly calibrated, validated and independently reviewed as shown above. ("Yes" to all performance qualifiers)
2. Alternate product design confirmed to meet all intended design parameters, performance, and savings

Rejected

1. Insufficient information provided to evaluate product performance
2. Alternate product has **NOT** been properly calibrated, validated and independently reviewed as shown above. ("No" to one or more performance qualifiers)

