Specifiers Checklist for Flexible Pavement Design		Alternate/ "Or Equal" Performance Testing Evaluation for Flexible Pavement			
Project Name:	Origina	Specified Product(s):			
Project Location:	Alterna	te/ "or Equal" Product Under Review:			
Project Number:	Alterna	te Product Sample Received:	YES	NO	
Owner:	Alterna	te Product Manufacturer and Location:			
Engineer of Record:	Compa	ny Name/ Person Proposing Alternate:			
Original Design Parameters	Alt	ernate/ "Or Equal" Design Parameter			
1. Traffic Capacity	1.	Traffic Capacity	_		
2. Subgrade Strength	2.	Subgrade Strength	-		
3. Currently Approved Geogrid	3.	Currently Approved Geogrid	-		
4. Asphalt Thickness (mm)	4.	Asphalt Thickness (mm)	-		
5. Asphalt Inickness Reduction (%) <u> </u>	Asphalt Inickness Reduction (%) (APT re	quirea)		
6. Aggregate Thickness (mm)	b.	Aggregate Thickness (mm)			
7. Aggregate Thickness Reduction	1(%) 7.	Aggregate Thickness Reduction (%) (APT	required)		
8. Increased frame capacity			-		
 Cost Saving (%) Materials Savings (m³ or ton) 	9.	Materials Saving (78)	-		
11. Time Savings (days)	10.	Time Savings (days)	-		
12 Environmental Savings (kgCO ₂)	ـــــــــــــــــــــــــــــــــــــ	Environmental Savings (kgCO2e)	-		
13 Lifecycle Cost Savings (%)	-/ 12.	Lifecycle Cost Savings (%)	_		
Alternate/"Or Foual" Performan	ce Evaluation (Calibration V	alidation and Verification Required)	_		
Calibration: Accelerated Pavement Testing (APT) in compliance with NCHRP Report 512 and Synthesis 325					
				VES	NO
1. 3 rd Party testing conducted at	an NCHRP accredited APT facility	(see attached list)?		TL3	NO
2 Specific proposed alternate pr	oduct included in APT testing?				
3 Environmentally controlled AP	T test chamber?				
4 Standard highway moving whe	el loade?				
5 Thin asphalt concrete geogrid navement section compared to thicker asphalt concrete control section?					
C Thisper aggregate has a payor	6 Thinner aggregate has a navement section compared to thicker aggregate has control section?				
7. Devempet tecting involved comparisons over ceft (CPB < 4%) and firm (CPB >E%) subgrade conditions?					
 Pavement testing involved comparisons over soft (CBR <4%) and firm (CBR >5%) subgrade conditions? Cooperid costion trefficient more than 100,000 FSAI switch mut dont the loce 12 January 					
8. Geogrid section trafficked more than 100,000 ESALs with rut depths less 12.7mm.					
9. Test data normalised for variances in AB/AC thicknesses and subgrade strength differences between test sections?					
10. Quantifiable percent reduction of asphalt concrete and/or aggregate base assumed in original design?					
11. Structural benefits outlined fo	r the geogrid stabilised section?				
12. Testing results published and/	or independently reviewed?(opt	onal)			
Validation: In-ground performance testing in to validate calibrated design in compliance with AASHTO R50					
				YES	NO
 10 or more in-situ automated geogrid stabilised aggregate ba foundation were achieved for 	cyclic plate load tests conducted ase, where the results confirmed the product being recommended	, in compliance with AASHTO T221- 90 (20 that the structural requirements of the p d.)12), on avement		

- 2. Testing completed under the supervision of a licensed Engineer?
- 3. Testing completed over a range of subgrade strengths?
- 4. At a minimum, 2 of the tests must show results for 10,000 cycles and demonstrate near-linear elastic behavior?

Verification: Independent review and verification of supporting research, data, design assumptions and analyses. Name of independent reviewer: ______

- 1. Independent review of calibration and validation research?
- 2. Independent review of data normalisation, product performance, and range of subgrade conditions?
- 3. Independent review of design assumptions and variations with AC and AB thickness, subgrade strength, and aggregate quality?
- 4. Independent review of design methodology and design calculations?
- 5. Independent verification of product-specific design boundary conditions (Allowable AC thickness, AB thickness and subgrade strength)

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)



YES

NO