<table>
<tr><th rowspan="2">Item</th><th colspan="2">RECYCLED CONCRETE AGGREGATE BASE COURSE</th></tr>
<tr><th>Louisiana DOTD</th><th>FAA</th></tr>
<tr><td>Agency Specification</td><td>Section 301, Class I Base Course
Section 302, Class II Base Course</td><td>Item P-219, Recycled Concrete Aggregate Base Course</td></tr>
<tr><td>Description</td><td>Section 301—This work consists of furnishing and placing Class I roadway and shoulder base courses on a subgrade layer.

Section 302—This work consists of furnishing and placing Class II roadway and shoulder base course on a prepared surface.</td><td>Base course composed of recycled concrete aggregate, crushed to meet a particular gradation.</td></tr>
<tr><td>Test Methods Referenced</td><td>• AASHTO T 96
• AASHTO T 104
• DOTD TR 428</td><td>• ASTM C131
• ASTM D2419
• ASTM D4318</td></tr>
<tr><td>Materials</td><td>• Recycled portland cement concrete</td><td>• Recycled concrete aggregate
• Fine aggregate</td></tr>
<tr><td>Relevant Material Requirement(s)</td><td>Recycled portland cement concrete:
• Recycled PCC shall be reasonably free of asphaltic concrete overlay material, reinforcing steel, joint material, and other debris, but may contain a minimal amount of other base course materials resulting from normal construction methods.
• Quality requirements:
– Soundness (AASHTO T 104), max loss: 15%
– Wear (AASHTO T 96), max loss: 40%
– Material passing the #40 shall be non-plastic.</td><td>Recycled concrete aggregate:
• Recycled concrete aggregate shall consist of ≥ 90% PCC (with virgin aggregate added if necessary), with the following making up the remaining:
<table><tr><th>Material</th><th>Max Content</th></tr><tr><td>Wood</td><td>0.1%</td></tr><tr><td>Brick, mica, schist, or other friable material</td><td>4%</td></tr><tr><td>Asphalt Concrete</td><td>10%</td></tr></table>• Quality requirements:
– Wear (ASTM C131), max loss: 45%
– Material passing the #40:
o Liquid Limit ≤ 25
o Plasticity Index ≤ 4

Fine aggregate:
• Fine aggregate shall be fines produced from the crushing operation.
• Sand equivalent value ≥ 35 (ASTM D2419)</td></tr>
<tr><td>Important Deviations</td><td colspan="2"></td></tr>
<tr><td>Level of Acceptability for Use</td><td colspan="2">• Group 2 – Except for aggregate gradation, the state-specified material meets all FAA material requirements. The state-specified material may be used on airfields supporting aircraft with less than 60,000 lbs maximum takeoff weight.
• Group 3 – The state-specified material may be used on FAA facilities if the aggregate gradation requirements are met.</td></tr>
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Item	RECYCLED CONCRETE AGGREGATE BASE COURSE FAA and Louisiana DOTD Aggregate Gradation Requirements
Additional Specifications	**Gradation requirements:**

Sieve	% Passing		
	FAA		Louisiana DOTD
	Design	Job Compliance	Class I and II Base Courses
2 in.	100	--	--
1-1/2 in.	95 – 100	± 5	100
1 in.	70 – 95	± 8	90 – 100
3/4 in.	55 – 85	± 8	70 – 100
#4	30 – 60	± 8	35 – 65
#30	12 – 30	± 5	--
#40	--	--	12 – 32
#200	0 – 8	± 3	0 – 8

Gradation plots comparing FAA to state agency gradation requirements: