

NorthEast Transportation Training & Certification Program

Coarse Aggregate Angularity & Flat and Elongated Particles Test Report (D 5821, D 4791)

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|-------------|---------------------------------|-----------------------|
| Date/Time: | Lab/Location: | |
| Weather: | Date Rec'd #: | Random Sample: Yes No |
| Project: | Lab Login #: | Lot #: |
| Contract #: | Material ID: | Sublot #: |
| Contractor: | Material #: | Sample Location: |
| Pay Item #: | Sample #: | Station: |
| Source: | Sample Type: QC A-V IA DR Other | Offset: |
| Plant Type: | Sampled By/Cert. #: | |

| Coarse Aggregate Angularity (D 5821) | | | | | | | | | | | |
|---|---|--|--|----------|----------|---|---|---|---|---|---|
| <div style="display: flex; justify-content: space-between; margin-bottom: 20px;"> <div>TEST PERFORMED BY: Mass (g) <input type="checkbox"/></div> <div>Count (# of Particles) <input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>F = Mass or count of fractured particles with at least the specified number of fractured faces.</p> <p>N = Mass or count of particles not meeting the fractured particle criteria.</p> <p>P = Percentage of particles with the specified number of fractured faces.</p> <p>$P = [F / (F + N)] * 100$</p> </div> <div style="width: 50%; text-align: center;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">One Face</th> <th style="width: 50%;">Two Face</th> </tr> <tr> <td>F = <input style="width: 100%;" type="text"/></td> <td><input style="width: 100%;" type="text"/></td> </tr> <tr> <td>N = <input style="width: 100%;" type="text"/></td> <td><input style="width: 100%;" type="text"/></td> </tr> <tr> <td>P = <input style="width: 100%;" type="text"/></td> <td><input style="width: 100%;" type="text"/></td> </tr> </table> </div> </div> | | | | One Face | Two Face | F = <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | N = <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | P = <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| One Face | Two Face | | | | | | | | | | |
| F = <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | | | | | | | | | | |
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| P = <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | | | | | | | | | | |

| Flat and Elongated Particles (D 4791) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|--------------------------|--------------------------|--------------------------|-------------|-------------------------------|--------------------------|-------------------|--------------------------|---------|--|--|--|--|---------|--|--|--|--|---------|--|--|--|--|---------|--|--|--|--|--------|--|--|--|--|--|---|---|--------------------------|--|
| <div style="display: flex; justify-content: space-between; margin-bottom: 20px;"> <div>TEST PERFORMED BY: Mass (g) <input type="checkbox"/></div> <div>Count (# of Particles) <input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">TEST RATIO: 3 : 1 <input type="checkbox"/></div> <div style="width: 50%;">5 : 1 <input type="checkbox"/></div> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th style="width: 15%;">Sieve Sizes</th> <th style="width: 15%;">Original % Retained per Sieve</th> <th style="width: 15%;">Count or Mass Tested (g)</th> <th style="width: 15%;">Count or Mass F&E</th> <th style="width: 40%;">Percent Flat & Elongated</th> </tr> </thead> <tbody> <tr><td>37.5 mm</td><td></td><td></td><td></td><td></td></tr> <tr><td>25.0 mm</td><td></td><td></td><td></td><td></td></tr> <tr><td>19.0 mm</td><td></td><td></td><td></td><td></td></tr> <tr><td>12.5 mm</td><td></td><td></td><td></td><td></td></tr> <tr><td>9.5 mm</td><td></td><td></td><td></td><td></td></tr> <tr> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">Weighted average:</td> <td></td> </tr> </tbody> </table> | | | | | Sieve Sizes | Original % Retained per Sieve | Count or Mass Tested (g) | Count or Mass F&E | Percent Flat & Elongated | 37.5 mm | | | | | 25.0 mm | | | | | 19.0 mm | | | | | 12.5 mm | | | | | 9.5 mm | | | | | | X | X | Weighted average: | |
| Sieve Sizes | Original % Retained per Sieve | Count or Mass Tested (g) | Count or Mass F&E | Percent Flat & Elongated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25.0 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19.0 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.5 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | X | X | Weighted average: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--|-----------------------------|
| Comments: | |
| Tested by: | Reviewed by: |
| Certification #: | Certification #: |
| Date: | Date: |
| Test Results Within Engineering Limits: YES <input type="checkbox"/> | NO <input type="checkbox"/> |