Appendix C
Data and Figures from the Mathematical Model
C.1 Coefficients from Model 4

<table>
<thead>
<tr>
<th>Ropes</th>
<th>( a_0 )</th>
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<th>( a_5 )</th>
<th>( a_6 )</th>
<th>( r^2 )</th>
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</thead>
<tbody>
<tr>
<td>Am Blue - Precycled</td>
<td>-0.554</td>
<td>0.245</td>
<td>5.449</td>
<td>0.101</td>
<td>-7.767</td>
<td>-0.013</td>
<td>2.193</td>
<td>0.845</td>
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<tr>
<td>Am Blue - New</td>
<td>-0.889</td>
<td>0.418</td>
<td>6.361</td>
<td>0.012</td>
<td>-10.046</td>
<td>-0.003</td>
<td>3.968</td>
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<td>Am II - Precycled</td>
<td>-0.806</td>
<td>0.380</td>
<td>5.409</td>
<td>0.167</td>
<td>-6.576</td>
<td>-0.028</td>
<td>1.188</td>
<td>0.890</td>
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<tr>
<td>Am II - New</td>
<td>-0.841</td>
<td>1.165</td>
<td>5.796</td>
<td>-0.180</td>
<td>-9.640</td>
<td>0.010</td>
<td>3.750</td>
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<tbody>
<tr>
<td>Am Blue - Precycled</td>
<td>-0.997</td>
<td>0.021</td>
<td>2.070</td>
<td>0.151</td>
<td>0.221</td>
<td>-0.015</td>
<td>-1.293</td>
<td>0.597</td>
</tr>
<tr>
<td>Am Blue - New</td>
<td>-1.104</td>
<td>0.350</td>
<td>2.411</td>
<td>0.031</td>
<td>-0.608</td>
<td>-0.005</td>
<td>-0.892</td>
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<th>( a_5 )</th>
<th>( a_6 )</th>
<th>( r^2 )</th>
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<tbody>
<tr>
<td>A - 56&quot; - Precycled</td>
<td>0.251</td>
<td>0.143</td>
<td>6.065</td>
<td>0.043</td>
<td>-1.650</td>
<td>-0.007</td>
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<td>0.924</td>
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<td>B - 44&quot; - Precycled</td>
<td>-0.389</td>
<td>-0.151</td>
<td>1.815</td>
<td>0.217</td>
<td>1.484</td>
<td>-0.025</td>
<td>-2.939</td>
<td>0.736</td>
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<tr>
<td>D - 20&quot; - Precycled</td>
<td>-0.142</td>
<td>0.056</td>
<td>3.420</td>
<td>0.106</td>
<td>1.026</td>
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<td>-6.959</td>
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<td>E - 8&quot; - Precycled</td>
<td>-0.178</td>
<td>-0.174</td>
<td>3.255</td>
<td>0.283</td>
<td>-0.151</td>
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<td>AA - 56&quot; - New</td>
<td>0.330</td>
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<td>2.895</td>
<td>0.001</td>
<td>-5.221</td>
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<td>BB - 44&quot; - New</td>
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<td>4.872</td>
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<td>DD - 20&quot; - New</td>
<td>-0.132</td>
<td>0.804</td>
<td>2.760</td>
<td>-0.217</td>
<td>0.190</td>
<td>0.014</td>
<td>-6.543</td>
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<td>EE - 8&quot; - New</td>
<td>-0.502</td>
<td>0.020</td>
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<td>0.172</td>
<td>0.579</td>
<td>-0.032</td>
<td>-5.132</td>
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<tr>
<td>Am II - Precycled</td>
<td>-1.142</td>
<td>-0.008</td>
<td>5.361</td>
<td>0.281</td>
<td>-6.783</td>
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<td>Am II - New</td>
<td>-0.860</td>
<td>-0.388</td>
<td>5.100</td>
<td>0.448</td>
<td>-6.670</td>
<td>-0.054</td>
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<table>
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<tbody>
<tr>
<td>F - 56&quot; - Precycled</td>
<td>0.511</td>
<td>0.394</td>
<td>6.052</td>
<td>-0.056</td>
<td>1.836</td>
<td>0.001</td>
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<tr>
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<td>-0.979</td>
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<td>-0.364</td>
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<td>HH - 32&quot; - New</td>
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<td>0.118</td>
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<td>0.577</td>
<td>-8.811</td>
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<td>-10.379</td>
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</table>

Table C.1.1: Results from Model 4 for the Follow-Up Tests and New Tests
C.2 Load vs. Displacement and Load vs. Velocity Plots for the Follow-Up Tests – Model 4

Figure C.2.1: Load vs. Displacement – Amsteel Blue – Follow-Up Tests – Precycled – Cycle 1

Figure C.2.2: Load vs. Velocity – Amsteel Blue – Follow-Up Tests – Precycled – Cycle 1
Figure C.2.3: Load vs. Displacement – Amsteel Blue – Follow-Up Tests – Precycled – Cycle 5

Figure C.2.4: Load vs. Velocity – Amsteel Blue – Follow-Up Tests – Precycled – Cycle 5
Figure C.2.5: Load vs. Displacement – Amsteel Blue – Follow-Up Tests – Precycled – Cycle 10

Figure C.2.6: Load vs. Velocity – Amsteel Blue – Follow-Up Tests – Precycled – Cycle 10
Figure C.2.7: Load vs. Displacement – Amsteel Blue – Follow-Up Tests – New – Cycle 1

Figure C.2.8: Load vs. Velocity – Amsteel Blue – Follow-Up Tests – New – Cycle 1
Figure C.2.9: Load vs. Displacement – Amsteel Blue – Follow-Up Tests – New – Cycle 5

Figure C.2.10: Load vs. Velocity – Amsteel Blue – Follow-Up Tests – New – Cycle 5
Figure C.2.11: Load vs. Displacement – Amsteel Blue – Follow-Up Tests – New – Cycle 10

Figure C.2.12: Load vs. Velocity – Amsteel Blue – Follow-Up Tests – New – Cycle 10
3/8 in. Amsteel II - Follow-Up Tests - Precycled - Cycle 1

Load vs. Displacement Comparison

Figure C.2.13: Load vs. Displacement – Amsteel II – Follow-Up Tests – Precycled – Cycle 1

3/8 in. Amsteel II - Follow-Up Tests - Precycled - Cycle 1

Load vs. Velocity Comparison

Figure C.2.14: Load vs. Velocity – Amsteel II – Follow-Up Tests – Precycled – Cycle 1
Figure C.2.15: Load vs. Displacement – Amsteel II – Follow-Up Tests – Precycled – Cycle 5

Figure C.2.16: Load vs. Velocity – Amsteel II – Follow-Up Tests – Precycled – Cycle 5
Figure C.2.17: Load vs. Displacement – Amsteel II – Follow-Up Tests – Precycled – Cycle 10

Figure C.2.18: Load vs. Velocity – Amsteel II – Follow-Up Tests – Precycled – Cycle 10
Figure C.2.19: Load vs. Displacement – Amsteel II – Follow-Up Tests – New – Cycle 1

Figure C.2.20: Load vs. Velocity – Amsteel II – Follow-Up Tests – New – Cycle 1
Figure C.2.21: Load vs. Displacement – Amsteel II – Follow-Up Tests – New – Cycle 5

Figure C.2.22: Load vs. Velocity – Amsteel II – Follow-Up Tests – New – Cycle 5
Figure C.2.23: Load vs. Displacement – Amsteel II – Follow-Up Tests – New – Cycle 10

Figure C.2.24: Load vs. Velocity – Amsteel II – Follow-Up Tests – New – Cycle 10
C.3 Load vs. Displacement and Load vs. Velocity Plots for the Amsteel Blue Ropes – Model 4

Figure C.3.1: Load vs. Displacement – Amsteel Blue A – Precycled – Cycle 1

Figure C.3.2: Load vs. Velocity – Amsteel Blue A – Precycled – Cycle 1
Figure C.3.3: Load vs. Displacement – Amsteel Blue A – Precycled – Cycle 5

Figure C.3.4: Load vs. Velocity – Amsteel Blue A – Precycled – Cycle 5
Figure C.3.5: Load vs. Displacement – Amsteel Blue A – Precycled – Cycle 10

Figure C.3.6: Load vs. Velocity – Amsteel Blue A – Precycled – Cycle 10
Figure C.3.7: Load vs. Displacement – Amsteel Blue A – Precycled – Cycle 15

Figure C.3.8: Load vs. Velocity – Amsteel Blue A – Precycled – Cycle 15
Figure C.3.9: Load vs. Displacement – Amsteel Blue A – Precycled – Cycle 20

Figure C.3.10: Load vs. Velocity – Amsteel Blue A – Precycled – Cycle 20
Figure C.3.11: Load vs. Displacement – Amsteel Blue B – Precycled – Cycle 1

Figure C.3.12: Load vs. Velocity – Amsteel Blue B – Precycled – Cycle 1
Figure C.3.13: Load vs. Displacement – Amsteel Blue B – Precycled – Cycle 5

Figure C.3.14: Load vs. Velocity – Amsteel Blue B – Precycled – Cycle 5
Figure C.3.15: Load vs. Displacement – Amsteel Blue B – Precycled – Cycle 10

Figure C.3.16: Load vs. Velocity – Amsteel Blue B – Precycled – Cycle 10
Figure C.3.17: Load vs. Displacement – Amsteel Blue B – Precycled – Cycle 15

Figure C.3.18: Load vs. Velocity – Amsteel Blue B – Precycled – Cycle 15
Figure C.3.19: Load vs. Displacement – Amsteel Blue B – Precycled – Cycle 20

Figure C.3.20: Load vs. Velocity – Amsteel Blue B – Precycled – Cycle 20
Figure C.3.21: Load vs. Displacement – Amsteel Blue D – Precycled – Cycle 1

Figure C.3.22: Load vs. Velocity – Amsteel Blue D – Precycled – Cycle 1
Figure C.3.23: Load vs. Displacement – Amsteel Blue D – Precycled – Cycle 5

Figure C.3.24: Load vs. Velocity – Amsteel Blue D – Precycled – Cycle 5
Figure C.3.25: Load vs. Displacement – Amsteel Blue D – Precycled – Cycle 10

Figure C.3.26: Load vs. Velocity – Amsteel Blue D – Precycled – Cycle 10
Figure C.3.27: Load vs. Displacement – Amsteel Blue D – Precycled – Cycle 15

Figure C.3.28: Load vs. Velocity – Amsteel Blue D – Precycled – Cycle 15
Figure C.3.29: Load vs. Displacement – Amsteel Blue D – Precycled – Cycle 20

Figure C.3.30: Load vs. Velocity – Amsteel Blue D – Precycled – Cycle 20
Figure C.3.31: Load vs. Displacement – Amsteel Blue E – Precycled – Cycle 1

Figure C.3.32: Load vs. Velocity – Amsteel Blue E – Precycled – Cycle 1
Figure C.3.33:  Load vs. Displacement – Amsteel Blue E – Precycled – Cycle 5

Figure C.3.34:  Load vs. Velocity – Amsteel Blue E – Precycled – Cycle 5
Figure C.3.35: Load vs. Displacement – Amsteel Blue E – Precycled – Cycle 10

Figure C.3.36: Load vs. Velocity – Amsteel Blue E – Precycled – Cycle 10
Figure C.3.37: Load vs. Displacement – Amsteel Blue E – Precycled – Cycle 15

Figure C.3.38: Load vs. Velocity – Amsteel Blue E – Precycled – Cycle 15
Figure C.3.39: Load vs. Displacement – Amsteel Blue E – Precycled – Cycle 20

Figure C.3.40: Load vs. Velocity – Amsteel Blue E – Precycled – Cycle 20
Figure C.3.41: Load vs. Displacement – Amsteel Blue AA – New – Cycle 1

Figure C.3.42: Load vs. Velocity – Amsteel Blue AA – New – Cycle 1
Figure C.3.43: Load vs. Displacement – Amsteel Blue AA – New – Cycle 5

Figure C.3.44: Load vs. Velocity – Amsteel Blue AA – New – Cycle 5
Figure C.3.45: Load vs. Displacement – Amsteel Blue AA – New – Cycle 10

Figure C.3.46: Load vs. Velocity – Amsteel Blue AA – New – Cycle 10
Figure C.3.47: Load vs. Displacement – Amsteel Blue AA – New – Cycle 15

Figure C.3.48: Load vs. Velocity – Amsteel Blue AA – New – Cycle 15
Figure C.3.49: Load vs. Displacement – Amsteel Blue AA – New – Cycle 20

Figure C.3.50: Load vs. Velocity – Amsteel Blue AA – New – Cycle 20
Figure C.3.51: Load vs. Displacement – Amsteel Blue BB – New – Cycle 1

Figure C.3.52: Load vs. Velocity – Amsteel Blue BB – New – Cycle 1
Figure C.3.53: Load vs. Displacement – Amsteel Blue BB – New – Cycle 5

Figure C.3.54: Load vs. Velocity – Amsteel Blue BB – New – Cycle 5
Figure C.3.55: Load vs. Displacement – Amsteel Blue BB – New – Cycle 10

Figure C.3.56: Load vs. Velocity – Amsteel Blue BB – New – Cycle 10
Figure C.3.57: Load vs. Displacement – Amsteel Blue BB – New – Cycle 15

Figure C.3.58: Load vs. Velocity – Amsteel Blue BB – New – Cycle 15
Figure C.3.59: Load vs. Displacement – Amsteel Blue BB – New – Cycle 20

Figure C.3.60: Load vs. Velocity – Amsteel Blue BB – New – Cycle 20
Figure C.3.61: Load vs. Displacement – Amsteel Blue DD – New – Cycle 1

Figure C.3.62: Load vs. Velocity – Amsteel Blue DD – New – Cycle 1
Figure C.3.63: Load vs. Displacement – Amsteel Blue DD – New – Cycle 5

Figure C.3.64: Load vs. Velocity – Amsteel Blue DD – New – Cycle 5
Figure C.3.65: Load vs. Displacement – Amsteel Blue DD – New – Cycle 10

Figure C.3.66: Load vs. Velocity – Amsteel Blue DD – New – Cycle 10
Figure C.3.67: Load vs. Displacement – Amsteel Blue DD – New – Cycle 15

Figure C.3.68: Load vs. Velocity – Amsteel Blue DD – New – Cycle 15
Figure C.3.69: Load vs. Displacement – Amsteel Blue DD – New – Cycle 20

Figure C.3.70: Load vs. Velocity – Amsteel Blue DD – New – Cycle 20
Figure C.3.71: Load vs. Displacement – Amsteel Blue EE – New – Cycle 1

Figure C.3.72: Load vs. Velocity – Amsteel Blue EE – New – Cycle 1
Figure C.3.73: Load vs. Displacement – Amsteel Blue EE – New – Cycle 5

Figure C.3.74: Load vs. Velocity – Amsteel Blue EE – New – Cycle 5
Figure C.3.75: Load vs. Displacement – Amsteel Blue EE – New – Cycle 10

Figure C.3.76: Load vs. Velocity – Amsteel Blue EE – New – Cycle 10
Figure C.3.77: Load vs. Displacement – Amsteel Blue EE – New – Cycle 15

Figure C.3.78: Load vs. Velocity – Amsteel Blue EE – New – Cycle 15
Figure C.3.79: Load vs. Displacement – Amsteel Blue EE – New – Cycle 20

Figure C.3.80: Load vs. Velocity – Amsteel Blue EE – New – Cycle 20
C.4 Load vs. Displacement and Load vs. Velocity Plots for the Amsteel II Ropes – Model 4

Figure C.4.1: Load vs. Displacement – Amsteel II F – Precycled – Cycle 1

Figure C.4.2: Load vs. Velocity – Amsteel II F – Precycled – Cycle 1
Figure C.4.3: Load vs. Displacement – Amsteel II F – Precycled – Cycle 5

Figure C.4.4: Load vs. Velocity – Amsteel II F – Precycled – Cycle 5
1/2 in. Amsteel II F - 56 in. - Case 10 - Precycled
Load vs. Displacement Comparison

Figure C.4.5: Load vs. Displacement – Amsteel II F – Precycled – Cycle 10

1/2 in. Amsteel II F - 56 in. - Case 10 - Precycled
Load vs. Velocity Comparison

Figure C.4.6: Load vs. Velocity – Amsteel II F – Precycled – Cycle 10
Figure C.4.7: Load vs. Displacement – Amsteel II F – Precycled – Cycle 15

Figure C.4.8: Load vs. Velocity – Amsteel II F – Precycled – Cycle 15
Figure C.4.9: Load vs. Displacement – Amsteel II F – Precycled – Cycle 20

Figure C.4.10: Load vs. Velocity – Amsteel II F – Precycled – Cycle 20
Figure C.4.11: Load vs. Displacement – Amsteel II G – Precycled – Cycle 1

Figure C.4.12: Load vs. Velocity – Amsteel II G – Precycled – Cycle 1
Figure C.4.13: Load vs. Displacement – Amsteel II G – Precycled – Cycle 5

Figure C.4.14: Load vs. Velocity – Amsteel II G – Precycled – Cycle 5
Figure C.4.15: Load vs. Displacement – Amsteel II G – Precycled – Cycle 10

Figure C.4.16: Load vs. Velocity – Amsteel II G – Precycled – Cycle 10
Figure C.4.17: Load vs. Displacement – Amsteel II G – Precycled – Cycle 15

Figure C.4.18: Load vs. Velocity – Amsteel II G – Precycled – Cycle 15
Figure C.4.19: Load vs. Displacement – Amsteel II G – Precycled – Cycle 20

Figure C.4.20: Load vs. Velocity – Amsteel II G – Precycled – Cycle 20
Figure C.4.21: Load vs. Displacement – Amsteel II H – Precycled – Cycle 1

Figure C.4.22: Load vs. Velocity – Amsteel II H – Precycled – Cycle 1
Figure C.4.23: Load vs. Displacement – Amsteel II H – Precycled – Cycle 5

Figure C.4.24: Load vs. Velocity – Amsteel II H – Precycled – Cycle 5
Figure C.4.25: Load vs. Displacement – Amsteel II H – Precycled – Cycle 10

Figure C.4.26: Load vs. Velocity – Amsteel II H – Precycled – Cycle 10
Figure C.4.27: Load vs. Displacement – Amsteel II H – Precycled – Cycle 15

Figure C.4.28: Load vs. Velocity – Amsteel II H – Precycled – Cycle 15
Figure C.4.29: Load vs. Displacement – Amsteel II H – Precycled – Cycle 20

Figure C.4.30: Load vs. Velocity – Amsteel II H – Precycled – Cycle 20
Figure C.4.31: Load vs. Displacement – Amsteel II I – Precycled – Cycle 1

Figure C.4.32: Load vs. Velocity – Amsteel II I – Precycled – Cycle 1
Figure C.4.33: Load vs. Displacement – Amsteel II I – Precycled – Cycle 5

Figure C.4.34: Load vs. Velocity – Amsteel II I – Precycled – Cycle 5
Figure C.4.35: Load vs. Displacement – Amsteel II I – Precycled – Cycle 10

Figure C.4.36: Load vs. Velocity – Amsteel II I – Precycled – Cycle 10
Figure C.4.37: Load vs. Displacement – Amsteel II I – Precycled – Cycle 15

Figure C.4.38: Load vs. Velocity – Amsteel II I – Precycled – Cycle 15
Figure C.4.39: Load vs. Displacement – Amsteel II I – Precycled – Cycle 20

Figure C.4.40: Load vs. Velocity – Amsteel II I – Precycled – Cycle 20
Figure C.4.41: Load vs. Displacement – Amsteel II J – Precycled – Cycle 1

Figure C.4.42: Load vs. Velocity – Amsteel II J – Precycled – Cycle 1
Figure C.4.43: Load vs. Displacement – Amsteel II J – Precycled – Cycle 5

Figure C.4.44: Load vs. Velocity – Amsteel II J – Precycled – Cycle 5
Figure C.4.45: Load vs. Displacement – Amsteel II J – Precycled – Cycle 10

Figure C.4.46: Load vs. Velocity – Amsteel II J – Precycled – Cycle 10
Figure C.4.47: Load vs. Displacement – Amsteel II J – Precycled – Cycle 15

Figure C.4.48: Load vs. Velocity – Amsteel II J – Precycled – Cycle 15
Figure C.4.49: Load vs. Displacement – Amsteel II J – Precycled – Cycle 20

Figure C.4.50: Load vs. Velocity – Amsteel II J – Precycled – Cycle 20
Figure C.4.51: Load vs. Displacement – Amsteel II FF – New – Cycle 02

Figure C.4.52: Load vs. Velocity – Amsteel II FF – New – Cycle 02
Figure C.4.53: Load vs. Displacement – Amsteel II FF – New – Cycle 05

Figure C.4.54: Load vs. Velocity – Amsteel II FF – New – Cycle 05
Figure C.4.55: Load vs. Displacement – Amsteel II FF – New – Cycle 10

Figure C.4.56: Load vs. Velocity – Amsteel II FF – New – Cycle 10
Figure C.4.57: Load vs. Displacement – Amsteel II FF – New – Cycle 15

Figure C.4.58: Load vs. Velocity – Amsteel II FF – New – Cycle 15
Figure C.4.59: Load vs. Displacement – Amsteel II FF – New – Cycle 20

Figure C.4.60: Load vs. Velocity – Amsteel II FF – New – Cycle 20
Figure C.4.61: Load vs. Displacement – Amsteel II GG – New – Cycle 1

Figure C.4.62: Load vs. Velocity – Amsteel II GG – New – Cycle 1
Figure C.4.63: Load vs. Displacement – Amsteel II GG – New – Cycle 5

Figure C.4.64: Load vs. Velocity – Amsteel II GG – New – Cycle 5
Figure C.4.65: Load vs. Displacement – Amsteel II GG – New – Cycle 10

Figure C.4.66: Load vs. Velocity – Amsteel II GG – New – Cycle 10
Figure C.4.67: Load vs. Displacement – Amsteel II GG – New – Cycle 15

Figure C.4.68: Load vs. Velocity – Amsteel II GG – New – Cycle 15
Figure C.4.69: Load vs. Displacement – Amsteel II GG – New – Cycle 20

Figure C.4.70: Load vs. Velocity – Amsteel II GG – New – Cycle 20
Figure C.4.71: Load vs. Displacement – Amsteel II HH – New – Cycle 1

Figure C.4.72: Load vs. Velocity – Amsteel II HH – New – Cycle 1
Figure C.4.73: Load vs. Displacement – Amsteel II HH – New – Cycle 5

Figure C.4.74: Load vs. Velocity – Amsteel II HH – New – Cycle 5
Figure C.4.75: Load vs. Displacement – Amsteel II HH – New – Cycle 10

Figure C.4.76: Load vs. Velocity – Amsteel II HH – New – Cycle 10
Figure C.4.77: Load vs. Displacement – Amsteel II HH – New – Cycle 15

Figure C.4.78: Load vs. Velocity – Amsteel II HH – New – Cycle 15
Figure C.4.79: Load vs. Displacement – Amsteel II HH – New – Cycle 20

Figure C.4.80: Load vs. Velocity – Amsteel II HH – New – Cycle 20
Figure C.4.81: Load vs. Displacement – Amsteel II - New – Cycle 1

Figure C.4.82: Load vs. Velocity – Amsteel II - New – Cycle 1
Figure C.4.83: Load vs. Displacement – Amsteel II II – New – Cycle 5

Figure C.4.84: Load vs. Velocity – Amsteel II II – New – Cycle 5
Figure C.4.85: Load vs. Displacement – Amsteel II II – New – Cycle 10

Figure C.4.86: Load vs. Velocity – Amsteel II II – New – Cycle 10
Figure C.4.87: Load vs. Displacement – Amsteel II – New – Cycle 15

Figure C.4.88: Load vs. Velocity – Amsteel II – New – Cycle 15
Figure C.4.89: Load vs. Displacement – Amsteel II II – New – Cycle 20

Figure C.4.90: Load vs. Velocity – Amsteel II II – New – Cycle 20
Figure C.4.91: Load vs. Displacement – Amsteel II JJ – New – Cycle 1

Figure C.4.92: Load vs. Velocity – Amsteel II JJ – New – Cycle 1
Figure C.4.93: Load vs. Displacement – Amsteel II JJ – New – Cycle 5

Figure C.4.94: Load vs. Velocity – Amsteel II JJ – New – Cycle 5
Figure C.4.95: Load vs. Displacement – Amsteel II JJ – New – Cycle 10

Figure C.4.96: Load vs. Velocity – Amsteel II JJ – New – Cycle 10
Figure C.4.97: Load vs. Displacement – Amsteel II JJ – New – Cycle 15

Figure C.4.98: Load vs. Velocity – Amsteel II JJ – New – Cycle 15
Figure C.4.99: Load vs. Displacement – Amsteel II JJ – New – Cycle 20

Figure C.4.100: Load vs. Velocity – Amsteel II JJ – New – Cycle 20