



**Aluminium (Easton) Arrow Spines Compared  
To ASTM Standard & ATA Standard**

| <b>Shaft Size</b> | <b>ASTM<br/>Deflection<br/>Value</b> | <b>ATA<br/>Delection<br/>Value</b> | <b>ATA Spine<br/>Value</b> |
|-------------------|--------------------------------------|------------------------------------|----------------------------|
| <b>1214</b>       | 2.501                                | 2.064                              | <b>12.6</b>                |
| <b>1413</b>       | 2.036                                | 1.681                              | <b>15.5</b>                |
| <b>1416</b>       | 1.684                                | 1.390                              | <b>18.7</b>                |
| <b>1512</b>       | 1.553                                | 1.282                              | <b>20.3</b>                |
| <b>1514</b>       | 1.379                                | 1.138                              | <b>22.8</b>                |
| <b>1516</b>       | 1.403                                | 1.158                              | <b>22.5</b>                |
| <b>1612</b>       | 1.298                                | 1.071                              | <b>24.3</b>                |
| <b>1614</b>       | 1.153                                | 0.952                              | <b>27.3</b>                |
| <b>1616</b>       | 1.079                                | 0.891                              | <b>29.2</b>                |
| <b>1712</b>       | 1.099                                | 0.907                              | <b>28.7</b>                |
| <b>1713</b>       | 1.044                                | 0.862                              | <b>30.2</b>                |
| <b>1714</b>       | 0.963                                | 0.795                              | <b>32.7</b>                |
| <b>1716</b>       | 0.880                                | 0.726                              | <b>35.8</b>                |
| <b>1812</b>       | 0.879                                | 0.726                              | <b>35.8</b>                |
| <b>1813</b>       | 0.874                                | 0.721                              | <b>36</b>                  |
| <b>1814</b>       | 0.799                                | 0.660                              | <b>39.4</b>                |
| <b>1816</b>       | 0.756                                | 0.624                              | <b>41.7</b>                |
| <b>1820</b>       | 0.592                                | 0.489                              | <b>53.2</b>                |
| <b>1912</b>       | 0.778                                | 0.642                              | <b>40.5</b>                |
| <b>1913</b>       | 0.733                                | 0.605                              | <b>43</b>                  |
| <b>1914</b>       | 0.658                                | 0.543                              | <b>47.9</b>                |
| <b>1916</b>       | 0.623                                | 0.514                              | <b>50.6</b>                |
| <b>2012</b>       | 0.680                                | 0.561                              | <b>46.3</b>                |
| <b>2013</b>       | 0.610                                | 0.504                              | <b>51.6</b>                |
| <b>2014</b>       | 0.579                                | 0.478                              | <b>54.4</b>                |
| <b>2016</b>       | 0.531                                | 0.438                              | <b>59.3</b>                |
| <b>2018</b>       | 0.464                                | 0.383                              | <b>67.9</b>                |
| <b>2020</b>       | 0.426                                | 0.352                              | <b>73.9</b>                |
| <b>2112</b>       | 0.590                                | 0.487                              | <b>53.4</b>                |
| <b>2113</b>       | 0.540                                | 0.446                              | <b>58.3</b>                |
| <b>2114</b>       | 0.510                                | 0.421                              | <b>61.8</b>                |
| <b>2115</b>       | 0.461                                | 0.381                              | <b>68.3</b>                |
| <b>2117</b>       | 0.407                                | 0.336                              | <b>77.4</b>                |
| <b>2212</b>       | 0.505                                | 0.417                              | <b>62.4</b>                |
| <b>2213</b>       | 0.458                                | 0.378                              | <b>68.8</b>                |
| <b>2214</b>       | 0.425                                | 0.351                              | <b>74.1</b>                |
| <b>2215</b>       | 0.419                                | 0.346                              | <b>75.2</b>                |
| <b>2216</b>       | 0.376                                | 0.310                              | <b>83.8</b>                |
| <b>2219</b>       | 0.337                                | 0.278                              | <b>93.5</b>                |
| <b>2312</b>       | 0.423                                | 0.349                              | <b>74.5</b>                |
| <b>2314</b>       | 0.391                                | 0.323                              | <b>80.6</b>                |
| <b>2315</b>       | 0.342                                | 0.282                              | <b>92.1</b>                |
| <b>2317</b>       | 0.297                                | 0.245                              | <b>106.1</b>               |
| <b>2412</b>       | 0.400                                | 0.330                              | <b>78.7</b>                |
| <b>2413</b>       | 0.365                                | 0.301                              | <b>86.3</b>                |
| <b>2419</b>       | 0.268                                | 0.221                              | <b>117.5</b>               |
| <b>2512</b>       | 0.321                                | 0.265                              | <b>98.1</b>                |
| <b>2514</b>       | 0.305                                | 0.252                              | <b>103.3</b>               |
| <b>2613</b>       | 0.265                                | 0.219                              | <b>118.9</b>               |