Section properties for shape **~ShapeId** are taken from AISC shape database.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| ~A | ~d | ~bf | ~tw | ~tf | ~y | ~yp | ~J | ~Cw |

Properties about X-axis:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
| ~Ix | ~Zx | ~Sx | ~rx |

Properties about Y-axis:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
| ~Iy | ~Zy | ~Sy | ~ry |