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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
| ~A | ~D | ~tnom | ~t | ~J |

Properties about X-axis:

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

Properties about Y-axis:

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