

**Region Properties**

Selections  
 Sketch Loop 1  
 Click to add

Dual Units  
 Meter

Calculate

Area = 2016 mm<sup>2</sup>  
 Perimeter = 637.664 mm

Centroid, with respect to Sketch Origin(mm)  
 X = 45  
 Y = 45

---  
 Inertia with respect to Sketch Origin(mm):

Inertia Tensor(mm<sup>4</sup>)  
 Ixx = 6424349.158  
 Ixy = 4082400  
 Iyx = 4082400  
 Iyy = 6424349.158

Polar Moment of Inertia = 12848698.316 mm<sup>4</sup>

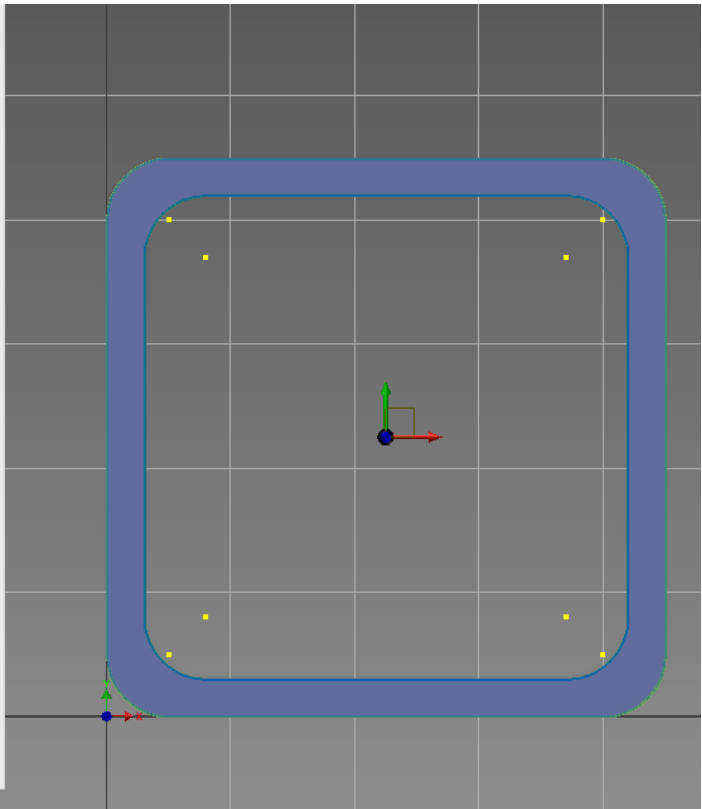
---  
 Area Moments of Inertia with respect to Principal Axes(mm<sup>4</sup>):  
 Ix = 2341949.158  
 Iy = 2341949.158

Polar Moment of Inertia = 4683898.316 mm<sup>4</sup>

Rotation Angle from projected Sketch Origin to Principal Axes (degrees):  
 About z axis = 0

Radii of Gyration with respect to Principal Axes(mm):  
 R1 = 34.083  
 R2 = 34.083

Done



**Region Properties**

Selections  
 Sketch Loop 1  
 Click to add

Dual Units  
 None

Calculate

Area = 539.451 mm<sup>2</sup>  
 Perimeter = 350.85 mm

Centroid, with respect to Sketch Origin(mm)  
 X = 45  
 Y = 15.415

---  
 Inertia with respect to Sketch Origin(mm):

Inertia Tensor(mm<sup>4</sup>)  
 Ixx = 245410.614  
 Ixy = 374202.48  
 Iyx = 374202.48  
 Iyy = 1874726.558

Polar Moment of Inertia = 2118137.172 mm<sup>4</sup>

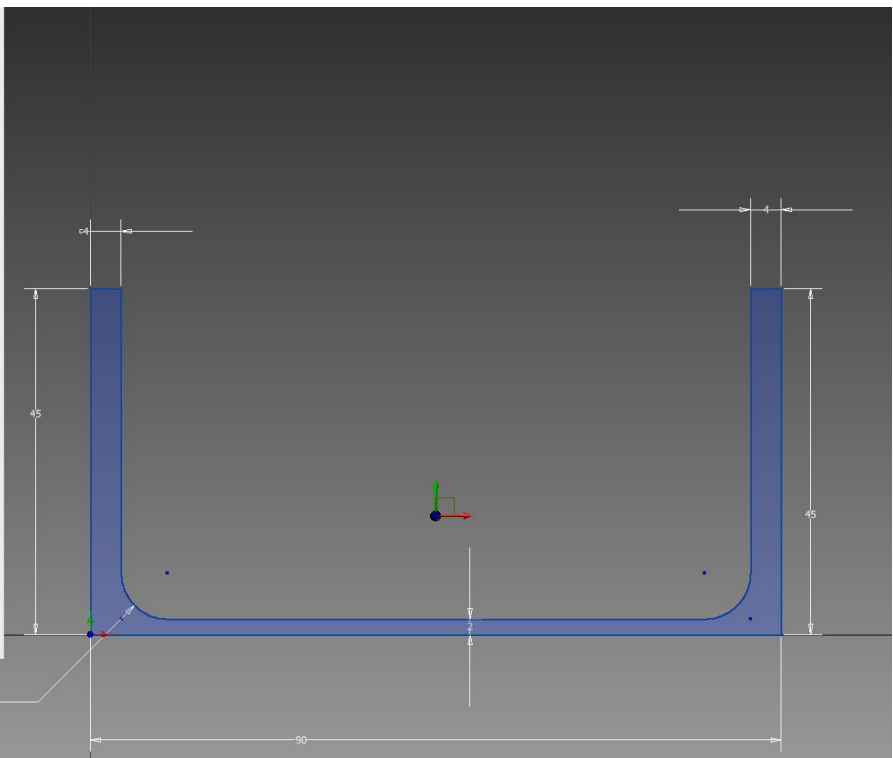
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 Area Moments of Inertia with respect to Principal Axes(mm<sup>4</sup>):  
 Ix = 115225.963  
 Iy = 782337.611

Polar Moment of Inertia = 897563.574 mm<sup>4</sup>

Rotation Angle from projected Sketch Origin to Principal Axes (degrees):  
 About z axis = 0

Radii of Gyration with respect to Principal Axes(mm):  
 R1 = 14.615  
 R2 = 38.062

Done



### Region Properties

**Selections**

Sketch Loop 1  
Click to add

Dual Units  
Meter

Calculate

---

Area = 3861.514 mm<sup>2</sup>  
Perimeter = 1114.093 mm

Centroid, with respect to Sketch Origin(mm)  
X = 117.659  
Y = -27.779

---

Inertia with respect to Sketch Origin(mm):

Inertia Tensor(mm<sup>4</sup>)  
Ixx = 6991587.797  
Ixy = -7338777.921  
Iyx = -7338777.921  
Iyy = 87871077.883

Polar Moment of Inertia = 94862665.681 mm<sup>4</sup>

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Area Moments of Inertia with respect to Principal Axes(mm<sup>4</sup>):  
Ix = 3120148.234  
Iy = 35305263.526

Polar Moment of Inertia = 38425411.759 mm<sup>4</sup>

Rotation Angle from projected Sketch Origin to Principal Axes(degrees):  
About z axis = 9.58

Radii of Gyration with respect to Principal Axes(mm):  
R1 = 28.426  
R2 = 95.618

\* The Following are dual unit values:

Area = 0.004 m<sup>2</sup>  
Perimeter = 1.114 m

Centroid, with respect to Sketch Origin(m)  
X = 0.118  
Y = -0.028

---

Inertia with respect to Sketch Origin(m):

Inertia Tensor(m<sup>4</sup>)  
Ixx = 0  
Ixy = -0  
Iyx = -0  
Iyy = 0

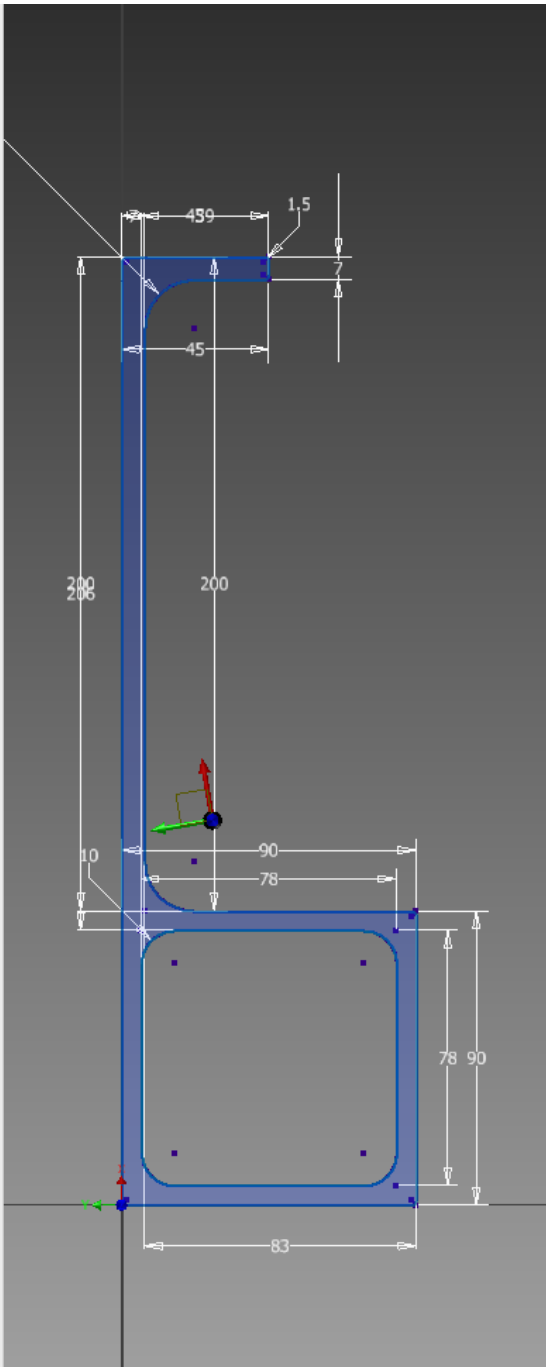
Polar Moment of Inertia = 0 m<sup>4</sup>

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Area Moments of Inertia with respect to Principal Axes(m<sup>4</sup>):  
Ix = 0  
Iy = 0

Polar Moment of Inertia = 0 m<sup>4</sup>

Radii of Gyration with respect to Principal Axes(m):  
R1 = 0.028  
R2 = 0.096



**Region Properties** ✕

**Selections**

👉 Sketch Loop 1  
Click to add

**Dual Units**

Meter ▼

Calculate

Area = 6163.96 mm<sup>2</sup>  
Perimeter = 1669.732 mm

Centroid, with respect to Sketch Origin(mm)  
X = 90  
Y = 105.055

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Inertia with respect to Sketch Origin(mm):

Inertia Tensor(mm<sup>4</sup>)  
Ixx = 124191903.202  
Ixy = 58279753.783  
Iyx = 58279753.783  
Iyy = 63856519.394

Polar Moment of Inertia = 188048422.596 mm<sup>4</sup>

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Area Moments of Inertia with respect to Principal Axes(mm<sup>4</sup>):  
Ix = 56163454.806  
Iy = 13928441.052

Polar Moment of Inertia = 70091895.858 mm<sup>4</sup>

Rotation Angle from projected Sketch Origin to Principal Axes(degrees):  
About z axis = 0

Radii of Gyration with respect to Principal Axes(mm):  
R1 = 95.455  
R2 = 47.536

\* The Following are dual unit values:

Area = 0.006 m<sup>2</sup>  
Perimeter = 1.67 m

Centroid, with respect to Sketch Origin(m)  
X = 0.09  
Y = 0.105

---

Inertia with respect to Sketch Origin(m):

Inertia Tensor(m<sup>4</sup>)  
Ixx = 0  
Ixy = 0  
Iyx = 0  
Iyy = 0

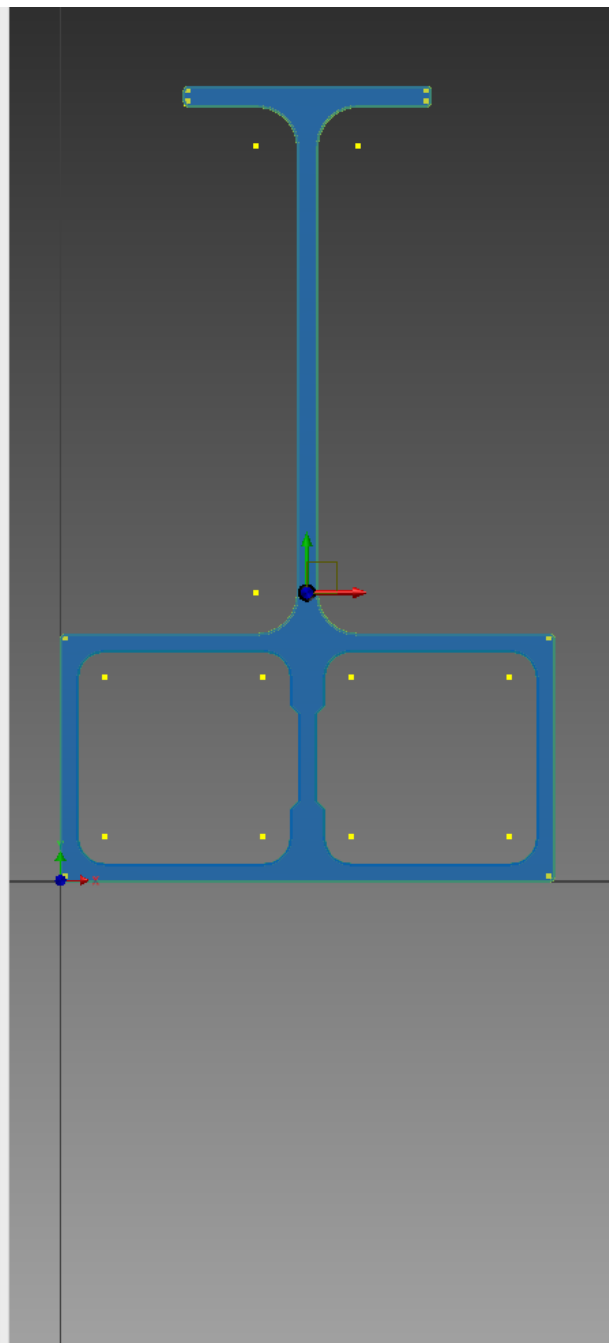
Polar Moment of Inertia = 0 m<sup>4</sup>

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Area Moments of Inertia with respect to Principal Axes(m<sup>4</sup>):  
Ix = 0  
Iy = 0

Polar Moment of Inertia = 0 m<sup>4</sup>

Radii of Gyration with respect to Principal Axes(m):  
R1 = 0.095  
R2 = 0.048



Region Properties

Selections  
 Sketch Loop 1  
 Click to add

Dual Units  
 None

Calculate

Area = 1078.903 mm<sup>2</sup>  
 Perimeter = 521.699 mm

Centroid, with respect to Sketch Origin(mm)  
 X = 45  
 Y = 45

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Inertia with respect to Sketch Origin(mm):

Inertia Tensor(mm<sup>4</sup>)  
 Ixx = 3749453.117  
 Ixy = 2184777.896  
 Iyx = 2184777.896  
 Iyy = 2671599.123

Polar Moment of Inertia = 6421052.24 mm<sup>4</sup>

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Area Moments of Inertia with respect to Principal Axes(mm<sup>4</sup>):  
 Ix = 1564675.221  
 Iy = 486821.228

Polar Moment of Inertia = 2051496.449 mm<sup>4</sup>

Rotation Angle from projected Sketch Origin to Principal Axes(degrees):  
 About z axis = 0

Radii of Gyration with respect to Principal Axes(mm):  
 R1 = 38.082  
 R2 = 21.242

Done

