



- 1 Painting surface: Perimeter of section:
- 2 Section area:
- 3 Beam mass per unit length:
- 4 Torsional inertia constant:
- 5 Section warping constant:
- 6 Torsional section modulus: elastic:
- 7 Torsional section modulus: plastic:
- 8 Torsional shape factor of section: plastic/elastic:
- 9 Second moment of area:
- 10 Section modulus: elastic:
- 11 Section modulus: plastic:
- 12 Shape factor: plastic/elastic:
- 13 Shear factor:
- 14 Shear effective area:

$$U = 4b + 2h - 2a + (2\pi - 8)r$$

$$A = \int [b_x dy]$$

$$p = [\rho A]$$

$$K = 2(b - 0.63e)e^3/3 + h_2 a^3/3 + 2(a/e)(0.145 + 0.1r/e)((r + a/2)^2 + (r + e)^2 - r^2)/(2r + e)^4$$

$$C_W = eb^3(h - e)^2/24$$

$$Z_t = K/\max(e, a)$$

$$S_t = (b \cdot a - 2r \cdot e/3)e^2 + h_1 a^2/2 + [\#]$$

$$f_t = S_t/Z_t$$

x-x	y-y
$I_x = \int [b_x y^2 dy]$	$I_y = \int [b_y x^2 dx]$
$Z_x = 2I_x/h$	$Z_y = 2I_y/b$
$S_{p_x} = \int [b_x y dy]$	$S_{p_y} = \int [b_y x dx]$
$f_x = S_{p_x}/Z_x$	$f_y = S_{p_y}/Z_y$
$F_x = (A/I_x^2) \int [S_{x1}^2/b_{x1} dy]$	$F_y = (A/I_y^2) \int [S_{y1}^2/b_{y1} dx]$
$A_{rx} = [2a l_x / S_{p_x}]$	$A_{ry} = [I_y \cdot \min(b_{y1}/S_{y1})]$

# Paint Structural Steel Surface Area Calculator

**DJ Losen**



## **Paint Structural Steel Surface Area Calculator:**

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