

FORMED SECTIONS

TABLE 18 PROPERTIES OF ELEMENTS

Thickness (inch) T
Radius of fillet $R = kT$
Length (inch) $L = \frac{\pi}{4}(2k+1)T$
 $L = \frac{\pi}{2}(2k+1)T^2$

DESIGN MANUAL

for
HIGH STRENGTH STEELS

FILLET



RECTANGLE

Values of k

Item	1.0	1.5	2.0	2.5	3.0	3.5
A	2.3562T	3.1416T	3.9270T	4.7124T	5.4978T	6.2832T
C	2.3562T ²	3.1416T ²	3.9270T ²	4.7124T ²	5.4978T ²	6.2832T ²
M _x	0.9903T	1.2998T	1.6128T	1.9275T	2.2433T	2.5596T
I _x	2.3333T ³	4.0833T ³	6.3333T ³	9.0833T ³	12.3333T ³	16.0833T ³
I _y	2.9452T ³	4.6759T ³	6.3627T ³	8.0833T ³	9.8333T ³	11.5833T ³
I _{xy}	0.6345T ³	1.3685T ³	2.5485T ³	4.2863T ³	6.6935T ³	9.8818T ³

FILLET



$$A = \frac{\pi}{4}(2k+1)T$$

$$M_x = \frac{\pi}{32}(2k+1)T^3$$

$$I_x = \frac{\pi}{64}(2k+1)T^4$$

Attention should be paid to the signs of the sines and cosines.

θ and φ are in degrees

RECTANGLE



$$I_{xx} = \frac{bd^3 \cos^2 \theta}{12} + \frac{bd^3 \sin^2 \theta}{12}$$

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M Woodhall



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