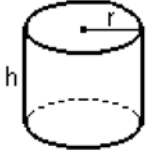


Tank Calculations

Weight, Volume, Scrap Cost

Item TF-8202

ENTER	Diameter	$d := 16 \cdot ft$	<u>Scrap Dollars</u>		<u>Weights</u>	
	Height	$h := 30 \cdot ft$	s304 := .47	per lb	wcs4 := 10.21	lb/sf
		$t := .227 \cdot in$	s316 := .65	per lb	wss4 := 11.162	lb/sf
		type := "cs"	$cs := \frac{246}{2240}$ per long ton			

CHOICES

cs
ss304
ss316

Prices effective 6/24/2013

Steel type = "cs" **Plate Thickness** $t = 0.227 \text{ in}$

Surface area & Scrap Cost

Calculates tank shell + flat top and flat bottom - all same thickness. Does not include coils, manheads, pipe fittings.

Volume = 45121 *gal*

Area SA = 1910 *ft*²

Weight: For type = "cs" and

$t = 0.227 \text{ in}$ weight = 17708 *lb*

Weight + 15% for fittings, etc: weightplus = 20364 *lb*

Scrap Price: ScrapPrice = 2236 dollars

Coils - 2 inch pancake
Approx 85 linear feet

$L := 85 \cdot ft$ Sch40 := $3.625 \cdot \frac{lb}{ft}$ Sch80 := $5.022 \cdot \frac{lb}{ft}$

IF Sch 40 $L40 := Sch40 \cdot L$ $L40 = 308 \text{ lb}$

IF Sch 80 $L80 := Sch80 \cdot L$ $L80 = 427 \text{ lb}$

MIN := weightplus + L40 $MIN = 20672 \text{ lb}$

MAX := weightplus + L80 $MAX = 20791 \text{ lb}$



Solutions 4 Manufacturing
+1 217 245-2919
www.s4mEquipment.com