

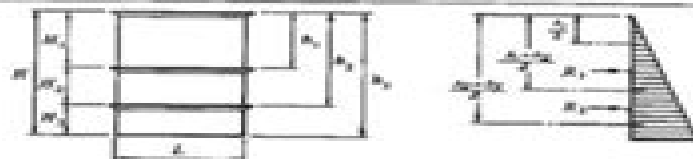
The purpose of this workbook is to design rectangular tanks with horizontal stiffeners.
Reference: "Pressure Vessel Handbook", 8th & 14th Editions and also
"Roark's Formulas for Stress and Strain", 7th Edition

Job: XXXX
Date: 05/03/2009
By: XXX
Description: XXX

RECTANGULAR TANKS Under Hydrostatic Pressure WITH HORIZONTAL STIFFENINGS

NOTATION

- n = factor depending on ratio of length and height, H/L . (See Table on page 204)
- E = modulus of elasticity, psi: 30,000,000 for carbon steel
- G = specific gravity of liquid
- H = height of tank, inches
- I = moment of inertia, in.⁴
- L = length of tank, inches
- p = pressure of liquid, psi
- R = reaction with subscripts indicating the location, lb./in.
- S = stress value of plate, psi, as tabulated in ASME Code
- t = required plate thickness, inches
- w = load per unit of length lb./in.



REQUIRED NUMBER OF STIFFENINGS

when H in inches =			
60-84	84-120	120-156	> 156
1	2	3	4

SPACING OF STIFFENINGS

	H_1	H_2	H_3	H_4	H_5
1	0.60 H	0.40 H			
2	0.45 H	0.30 H	0.25 H		
3	0.37 H	0.25 H	0.21 H	0.17 H	
4	0.31 H	0.23 H	0.18 H	0.16 H	0.14 H

LOAD lb./in.

$$w = \frac{pSHG}{2}$$

MINIMUM MOMENT OF INERTIA FOR STIFFENING

$$I = 1.25 R \frac{L^3}{n^3} \quad \text{where } R = 0.7 w$$

REQUIRED PLATE THICKNESS

$$t = 0.37 \sqrt{\frac{0.85 p H}{S}}$$

LEGEND

INPUT

Notes and additional actions required

Intermediate results

Results

Note to sheet user: When using Solver tool solve for the maximum stress in cell B176 equal to to the maximum allowable stress in cell B53 by changing the minimum recommended thickness in cell E126. **THIS MUST BE DONE IN ORDER TO ASSURE THE CORRECT THICKNESS IS RECOMMENDED BELOW!**

V = 134
E = 30,000,000
G = 1.78
H = 72
W = 84.5
L = 50
S = 16,700
ta = 0.2500

R^3
psi
in
in
psi

Longest horizontal span between sufficient vertical supports, such as vertical stiffeners, stays or vessel corners.

INPUT

Minimum recommended thickness

$$t = 0.2500 \text{ in}$$

Actual thickness used including corrosion allowance, if applicable. **MAKE SURE TO CHANGE THIS TO GET PROPER STIFFENER SIZES!**

Rectangular Tank Design With Horizontal Stiffening

**Charles E. Reynolds, James C.
Steedman, Anthony J. Threlfall**



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