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# **Rectangular Concrete Tanks Portland Cement Association**

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Tank Design Example

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An open top concrete tank is to have three chambers, each measuring 20' x 60' as shown. The wall height is 17'. The tank will be partially underground, the grade level is 10' below the top of the tank. The highest groundwater table is expected to be 4' below grade. The fluid level inside the tank is 15'. 20' 20' 60' 20'

**A Design Example**

*Page 5/25*

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**for a Rectangular  
Concrete Tank PCA**

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Association. 5420 Old  
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Illinois 60077-1083;  
847.966.6200 Fax  
847.966.9781; 200  
Massachusetts Ave  
NW, Suite 200

**ISG Product -  
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Rectangular tanks have  
generally been

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designed as an assemblage of plates with appropriate boundary conditions along the edges. The Portland 1 Cement Association (PCA) published a bulletin in 1969 which contained moment coefficients for plates with triangular and uniform pressure distri-

## **ANALYSIS OF RECTANGULAR CONCRETE TANKS**

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## **Design Aids - Portland Cement Association**

PCA rectangular  
concrete tanks Javeed  
Munshi



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(PDF) PCA

**rectangular concrete  
tanks Javeed Munshi  
| Maria ...**

The Portland Cement Association PCA has publications for designing. We will refer to the PCA Rectangular Concrete Tanks design manual as PCA-R, and Risers. Technical Release No30 1965 by. Rectangular Concrete Tanks by Portland. Moments and Reactions for

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Concrete Tanks  
Rectangular. Design of  
Reinforced Concrete  
Cantilever Retaining  
Walls. pca rectangular  
concrete tanks 5th  
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edition pdf**

Technical Release  
No30 (1965) by SCS. •  
“Rectangular Concrete  
Tanks” by Portland  
Cement Association •  
“Moments and  
Reactions for

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Concrete Tanks  
Rectangular Plates” by

US Bureau of Cement

Reclamation. ACI

350R-89: “ This report  
presents

recommendations for  
structural design,

materials, and

construction of  
concrete tanks,

reservoirs, and other  
structures commonly

used in water

containment, industrial

and domestic water,

and wastewater

treatment works,

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where dense,  
impermeable concrete  
with high ...  
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## **Structural Design Considerations**

I'm looking for an excel database containing all the design coefficients from the most recent Rectangular Concrete Tanks, By: PCA (Portland Cement Association) My goal is to setup arguments in excel which if b/a and c/a are input, the file

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will spit out all my  
coeffients for me so I  
dont have to searching  
through the document.  
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Thanks so much.

**Excel Database for  
PCA - Rectangular  
Concrete Tank  
Design ...**

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builds circular,  
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tanks for low  
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used in many

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applications around the world, including water, wastewater, thermal energy (TES), biofuels, glycol and more.

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Incorporating enhanced resilience into building design and construction improves community continuity when Portland Cement Rectangular concrete

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tanks (open library)

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Tanks by Javeed

Munshi, January

1995,Portland Cement

Association edition,

You could add

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Tanks to a list if you

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**Pca Rectangular**

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**Design Manual**

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**PCA - The Portland  
Cement Association  
- America's Cement**

...

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Tanks , 5 th Edition,

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References:  $W_x \geq W_y$ ,

$L_x \geq L_y$  Internal



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forces are from Finite

Element Analysis (FEA)

or tables of reference 1

Notes: Internal forces

in Walls (Horizontal

Direction):  $M_{wxm} =$

$kN.m/m$   $M_{wxe} =$

$kN.m/m$   $M_{wym} =$

$kN.m/m$   $M_{wye} =$

$kN.m/m$   $kN/m$   $C_{wxm} =$

$kN/m$   $kN/m$   $kN/m$   $C_{wxe} =$

**Reinforced Concrete**

**Tank Design -**

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“Rectangular Concrete

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Tanks," Portland  
Cement Association,  
Skokie, IL, 1998, 182  
pp. (Presents data for  
design of rectangular  
tanks.) "Circular  
Concrete Tanks  
Without Prestressing,"  
Portland Cement  
Association, Skokie, IL,  
1993, 54 pp. (Presents  
design data for circular  
concrete tanks built in  
or on ground. Walls  
may be free or ...

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Seismic Design and

Hazard Maps: Before

and After Next Sharing

Claims Experience for

Better Structural

Engineering

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**STRUCTURE** Cement  
magazine | **Concrete**  
**Foundation Walls**  
**Subjected ...**

Abstract Engineers  
designing  
conventional,  
rectangular, reinforced  
concrete, liquid  
containing structures  
(LCS) often rely on the  
Portland Cement  
Association's (PCA)  
publication,  
"Rectangular Concrete  
Tanks", to analyze two-

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way panels. Several scenarios that would benefit designers are not included in the publication.

**Expansion of PCA  
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Tables ...**

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Rectangular Concrete Tanks by Javeed Munshi, January 1995, Portland Cement Association edition, Paperback in English

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**Concrete Tanks  
(January 1995  
edition) | Open ...**

Author of Soil-cement construction handbook, Design and control of concrete mixtures 13th Edition, Notes on Aci318 95 Building Code Requirements for Structural Concrete With Design Applications (EB-070), Concrete systems for homes and low-rise construction, Rectangular concrete

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Concrete Tanks,

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