

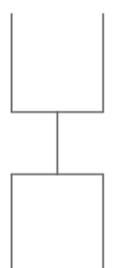
DESIGN GUIDE FOR THE USE OF STD. DRAWINGS PA-051 AND PA-052, WOODEN WALL

A. USE TABLE 3.1 TO SELECT SIZE AND SPACING OF POSTS:

TABLE 3.1 – MAXIMUM WALL HEIGHT (NOT INCLUDING FENCE) VERSUS POST SIZE AND SPACING; USING 2" PLANKS EXCEPT AS NOTED.

POST SPACING, FT.	MAXIMUM WALL HEIGHT, FT.			
	4" X 6"	6" X 6"	6" X 8"	8" X 8"
2	4.8	5.5	6.7	7.4
4	3.8	4.4	5.3 ***	5.9 ****
6	3.4	3.8	4.6 **	5.2 **
8	3.0	3.5	4.2 **	4.7 **
10	2.8 *	3.2 *	3.9 *	4.4 *
12	2.5 *	3.0 *	3.6 *	4.1 *

NOTE: NEED TO USE 3" PLANKS FOR PORTION OF WALL BELOW:



* – 2.5'
** – 4'
*** – 5'

TABLE 3.1 DESIGN ASSUMPTIONS:

1. POSTS AND PLANKS MADE OF SOUTHERN YELLOW PINE, DOUGLAS-FIR, HEM-FIR, OR RED OAK; MIN. Fb=1100 PSI.
2. LATERAL LOADING: 60 PCF INSIDE, 0 PCF OUTSIDE. (FILL ON OUTSIDE OF WALL REQUIRES A SPECIAL DESIGN DEPENDING ON FILL TYPE AND SURCHARGE).

B. OTHER CRITERIA:

1. MINIMUM POST DEPTH (BELOW TOP OF FLOOR) SHALL EQUAL WALL HEIGHT IF SET IN CONCRETE; IN SAND/GRAVEL, ADD AN ADDITIONAL 6".
2. MINIMUM CONCRETE FLOOR THICKNESS SHALL BE 5" AT THE POST, EXCEPT 6" FOR WALLS GREATER THAN 5' HIGH.
3. CONCRETE FLOOR SHALL EXTEND OUTSIDE OF POSTS AT LEAST 8" FOR A 2' HIGH WALL; 12" FOR A 4' OR HIGHER WALL.
4. CONCRETE FLOOR SHALL EXTEND INSIDE OF POSTS A LENGTH EQUAL TO AT LEAST TWICE THE WALL HEIGHT.
5. BOTTOM PLANK MAY BE EMBEDDED 1/2" TO 1" INTO CONCRETE FLOOR TO IMPROVE LIQUID-TIGHTNESS; NOTE IF SO DESIRED.

Date _____

07/05

Designed _____
 Drawn TJA
 Checked _____
 Approved by _____

_____ COUNTY, PENNSYLVANIA

Guide For Use of Standard Details PA-051 & PA-052

