

RECEPTION TANK DESIGN

1. VERTICAL WALL STEEL

WALL HEIGHT	WALL THICKNESS	LOADING			
		NO TRACTOR ADJACENT		TRACTOR ADJACENT	
		GRADE 40	GRADE 60	GRADE 40	GRADE 60
7 FT. or less	8"	#4 @ 12"	#4 @ 18"	#4 @ 10"	#4 @ 16"
8 FT.	8"	#4 @ 12"	#4 @ 18"	#4 @ 7"	#5 @ 18"
8 FT.	12"	#4 @ 18"	#4 @ 18"	#4 @ 12"	#4 @ 18"
10 FT.	8"	#5 @ 9"	#5 @ 12"	#6 @ 9"	#6 @ 12"
10 FT.	10"	#5 @ 12"	#4 @ 12"	#5 @ 9"	#5 @ 12"
10 FT.	12"	#4 @ 9"	#4 @ 15"	#4 @ 7"	#4 @ 10"
12 FT.	12"	#5 @ 9"	#5 @ 12"	#6 @ 9"	#6 @ 15"

2. HORIZONTAL WALL STEEL

WALL THICKNESS	GRADE 40	GRADE 60
8"	#4 @ 10"	#4 @ 12"
10"	#4 @ 8"	#4 @ 10"
12" (steel for each face)	#4 @ 12"	#4 @ 16"

3. LID STEEL (8" THICK POURED IN PLACE LID)

- LOADING – 1 LIVESTOCK (125 psf)  
 2 SKID-STEER LOADER (150 psf)  
 3 TRACTOR (2-5000LB. LOADS – 4FT. O.C.)

WIDTH	LOADING (GRADE 40)		
	1	2	3
6 FT.	#4 @ 12"	#4 @ 10"	#4 @ 4" or #5 @ 6"
8 FT.	#4 @ 12"	#4 @ 11"	#5 @ 4" or #6 @ 6"
10 FT.	#4 @ 7"	#4 @ 7"	#6 @ 4" or #7 @ 5"
12 FT.	#6 @ 11"	#6 @ 10"	#7 @ 4" or #8 @ 4"

WIDTH	LOADING (GRADE 60)		
	1	2	3
6 FT.	#4 @ 12"	#4 @ 12"	#3 @ 4" or #4 @ 6"
8 FT.	#4 @ 12"	#4 @ 12"	#4 @ 4" or #5 @ 6"
10 FT.	#4 @ 11"	#4 @ 10"	#5 @ 4" or #6 @ 6"
12 FT.	#5 @ 12"	#5 @ 11"	#5 @ 3" or #6 @ 4"



United States  
Department of  
Agriculture

Natural Resources  
Conservation Service

**RECEPTION TANK DESIGN**

CLIENT: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_

Date \_\_\_\_\_  
 Designed \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_

File Name  
WI-741A  
 Date  
07/14  
 Sheet of \_\_\_\_\_