

LITTER DRY STACK STRUCTURE
DESIGN WORKSHEET
(TWO WALLS – BOTH ENDS OPEN)

Conservation District: _____ Field Office: _____

Cooperator: _____ Location: _____

V_L = Volume of litter stored (Form GA-ENG-313A, Item "Operation Storage Requirement."): _____ ft^3

W_b = Width of building (dimension from inside of post to inside of post): _____ ft.

h_m = Max height of pile (Max. 7 ft.): _____ ft.

h_w = Height of wall (Max for wooden wall = 5 ft): _____ ft.

h_s = Height of pile at side walls (Normally equal to the wall height): _____ ft.

h_e = Height to gable end closure wall (12 or 14 ft depending on design chosen): _____ ft.

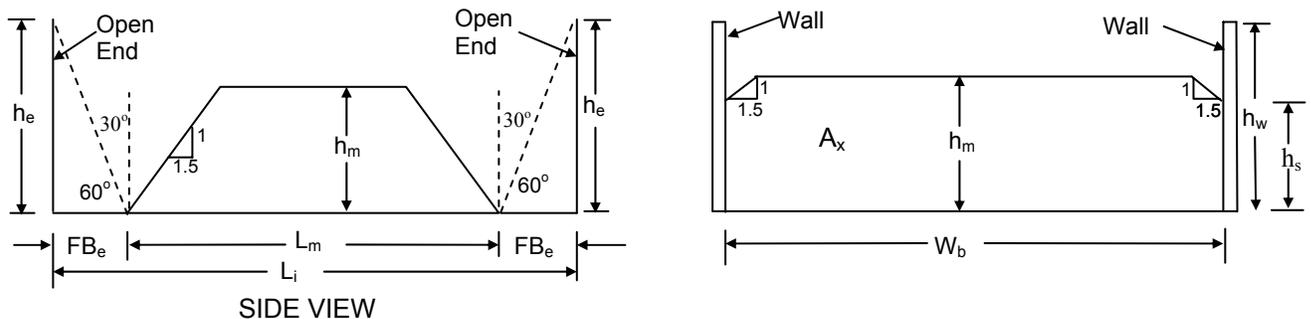
A_x = Cross sectional area of pile (calculate below)

L_m = Length of litter pile (calculate below)

L_i = Length of building (initial calculation) including freeboard (FB_e).

L_T = Total length; L_i rounded to accommodate post spacing

FB_e = Horizontal freeboard between toe of pile and open end of building. Recommend 30 degrees from the vertical on all exposed sides to prevent windblown rainfall from impacting on the containment area.



$A_x = h_m W_b - 1.5(h_m - h_s)^2 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} - 1.5 \times (\underline{\hspace{1cm}} - \underline{\hspace{1cm}})^2 = \underline{\hspace{1cm}} \text{ ft}^2$

$L_m = (V_L / A_x) + 1.5h_m = (\underline{\hspace{1cm}} / \underline{\hspace{1cm}}) + (1.5 \times \underline{\hspace{1cm}}) = \underline{\hspace{1cm}} \text{ ft}$

$FB_e = 7 \text{ ft}$ for 12 ft high support posts OR 8 ft for 14 ft high support posts = _____ ft

$L_i = L_m + 2FB_e = \underline{\hspace{1cm}} \text{ ft} + 2 \times (\underline{\hspace{1cm}}) \text{ ft} = \underline{\hspace{1cm}} \text{ ft}$ Post Spacing: _____ ft c-c

$L_T = \underline{\hspace{1cm}} \text{ ft}$ (Rounded to accommodate post spacing. Round to closest even spacing.)

Floor area = $L_T \times W_b = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ ft}^2$

Designed by: _____	Date: _____
Checked by: _____	Date: _____
Approved by: _____	Date: _____
Job Class: _____	