

RAIN GUARD DESIGN MEASUREMENTS

1/14/2019

Plastic: 4 mil x 48" x 100'

NOMENCLATURE :

D = Tree diameter

TC = Tree circumference

WT = Top Plastic Width

WB = Bottom Plastic Width

L = Plastic Length

DB = Bottom Plastic Diameter

FORMULAS :

$$D = (TC / 3.14)$$

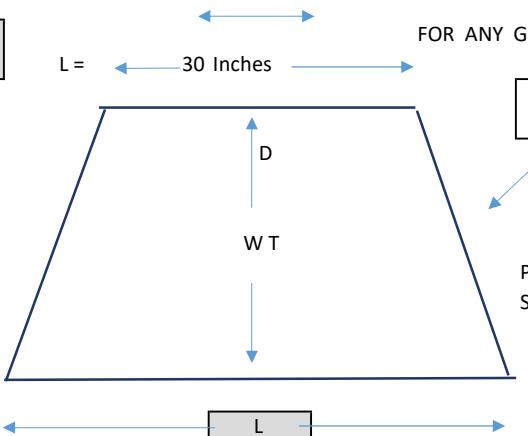
$$TC = (3.14 \times D)$$

$$WT = (TC \times 1.1)$$

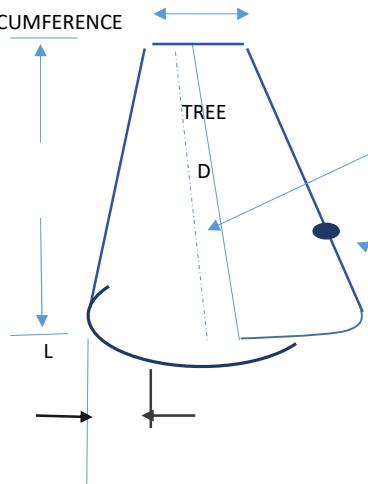
$$WB = (WT \times 1.75)$$

$$WB = (WT \times 2)$$

$$DB = (WB) / 3.14$$



FOR ANY GIVEN TREE CIRCUMFERENCE



Units are in Inches

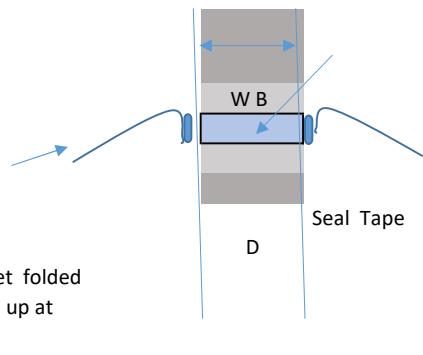
OLT = Over lap at the Top

OLB = Over Lap at the Bottom set to zero for maximum bottom diameter

$$OLT = (WT \times .1)$$

Over Lap

$$OLB = (WB \times .1)$$



Example:

TC =	18.00	Known dimension
D =	5.73	
L =	30.00	
G =	2.87	
WT =	19.8	Cut to this size
WB =	36	Cut to this size
DB =	11.46	
OLT =	3.6	
OLB =	0	