

# How To Build A Biomass Composter Rotatable and Portable



Unloads into a wheelbarrow









Rotatable for easy aeration



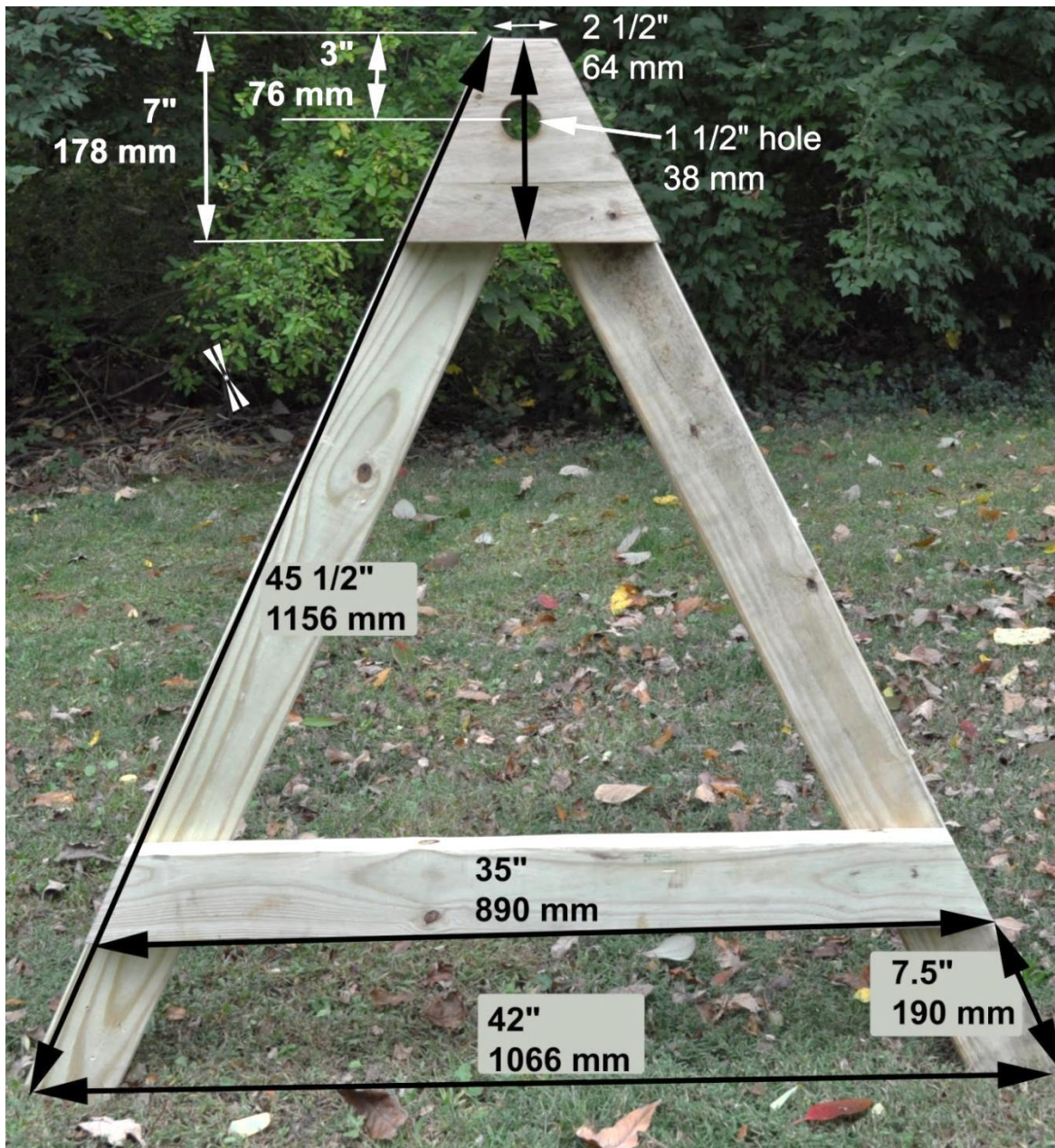
## Wheelbarrel for portability

## Material List

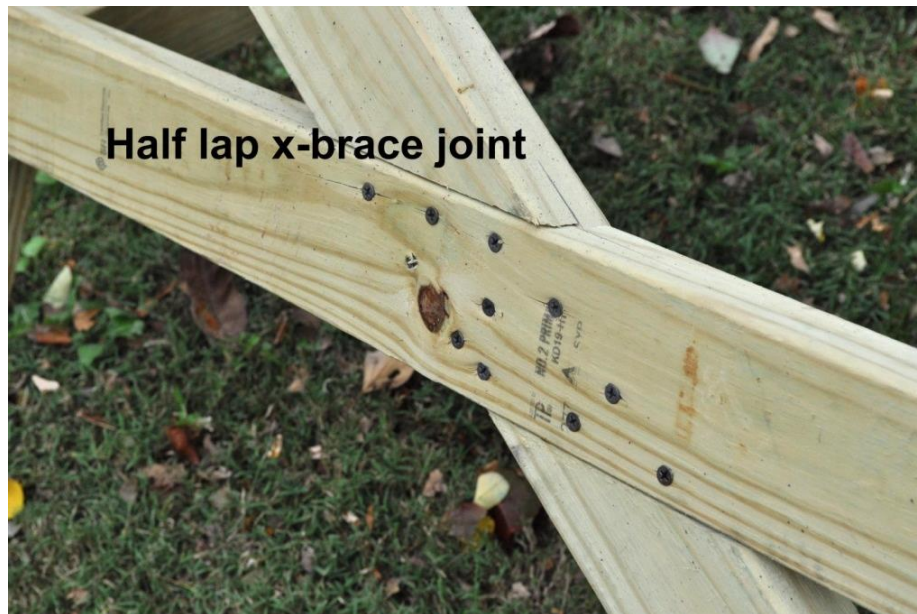
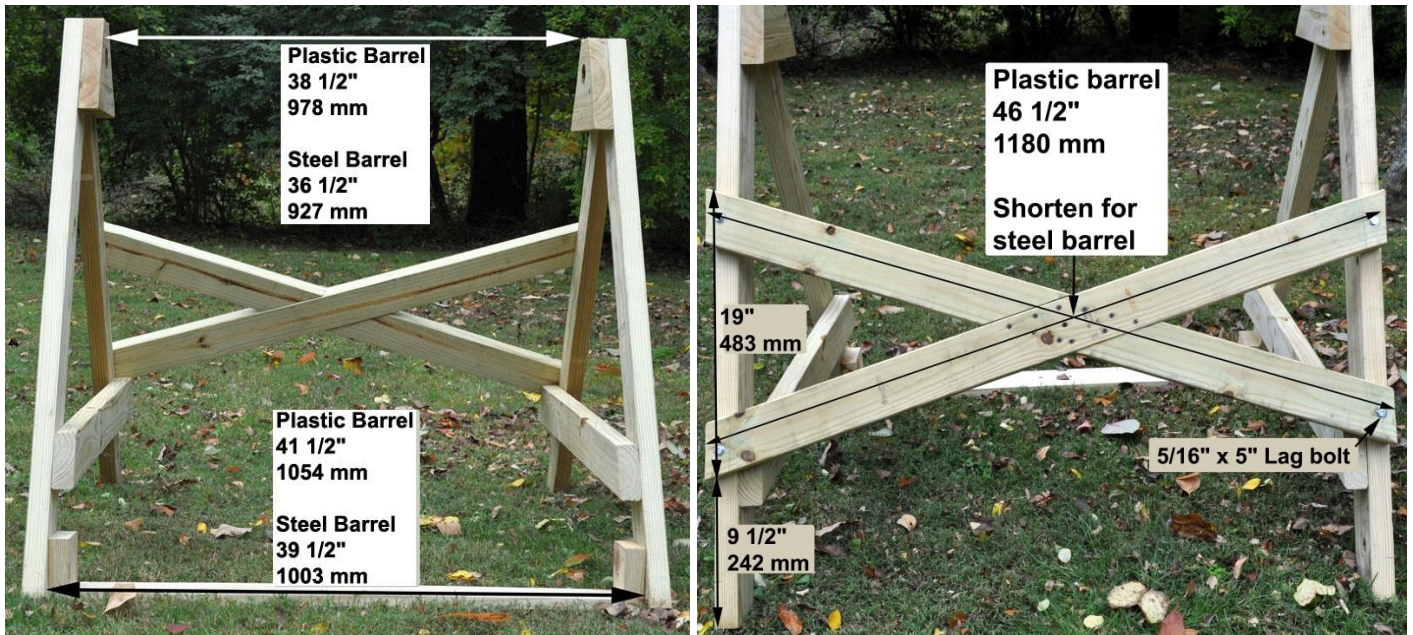
Material	PCS	Description	Stock Size	Length	Comments
Barrel	1	Plastic or Metal	23" diameter 584 mm	Plastic 36 1/2" 927 mm Metal 34 3/4" 883 mm	All dimensions are based on these two sizes
Wood	6	Treated Lumber if outdoors	1 1/2" X 3 1/2" 38mm x 89mm	96" 2438 mm	
Wood	1	Treated Lumber if Outdoors	1 1/2" X 7" 38mm x 278 mm or use two 2 x 4's side-by-side	24" 610 mm	Apex Plate for A-Frame
Floor Flange	2	Galvanized Cast Iron	1" 25 mm		
Aluminum Plate	1	Support plate for floor flange	1/4 " thick	5" x 5"	
Pipe	2	Galvanized Cast Iron Nipple	1" 25 mm	4" 102 mm	Lid end support pipe
Pipe	2	Galvanized Cast Iron Nipple	1" 25 mm	5" 127 mm	Handle for barrel bottom end
pipe	1	Galvanized Cast Iron Nipple	1" 25 mm	6 152 mm	Handel
Pipe Elbows	2	Galvanized Cast Iron	1" 25 mm		Handle
Pipe Caps	2	Galvanized Cast Iron	1" 25 mm		Handle and Lid-end pipe
PVC	1	Sleeve for handle over the 1" pipe	1 1/4" Sked 40	4 3/4" 121 mm	
Hinge	2	Door Hinge	3 1/2"		
Door Clasp	2	Zink Plated Latch Post Safety Hasp	3 1/2" 90 mm		
Bolts, Nuts & Washers	6	Roundhead Zink Plated	10-24	3/4" 19 mm	To secure plastic lip to door

Bolts, Nuts & Washers	18	Hex Head Zink Plated	1/4"- 20	3/4" 19 mm	Door hinge and door clasp (female half only)
Bolts, Nuts & Washers	16	Hex Head Zink Plated	1/4"- 20	1" 25 mm	To secure flanges
Bolts, Nuts & Washers	8	Flathead Zink Plated To secure male half of latch post safety hasp	10-24	3/4" 19 mm	
Eye-Bolt	1	1/4"- 20	1/4"- 20	1" 25 mm	To secure door latch
Snap Hook	1	. Nickel-Plated Steel Round Swivel Eye Bolt Snap Hook	3 1/2" x 5/8" 90 mm x 16 mm	3 1/2" 90 mm	 Door Latch
Lag Bolts & Washers	4	Zink Plated	5/16" 8 mm	5" 127 mm	To secure X-Brace
Deck Screws	About 50		# 10	2 1/2" 64 mm	
Plastic Lip	1	Scrap plastic	1" wide x 1/8" thick 25 mm x 3 mm	10 1/2" 267 mm	Door lip









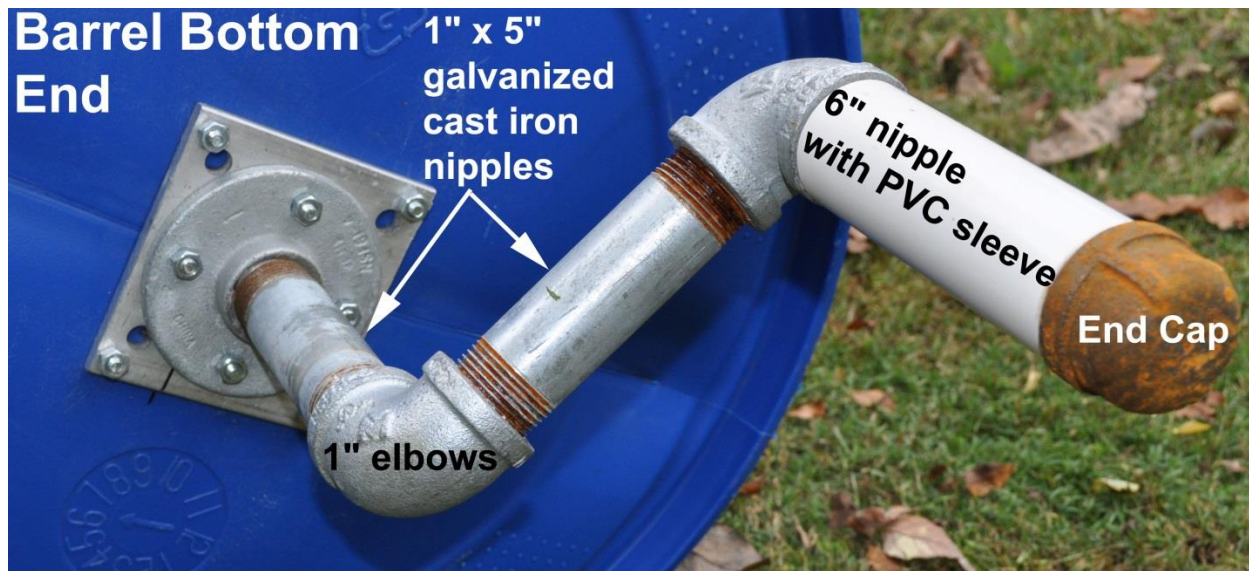




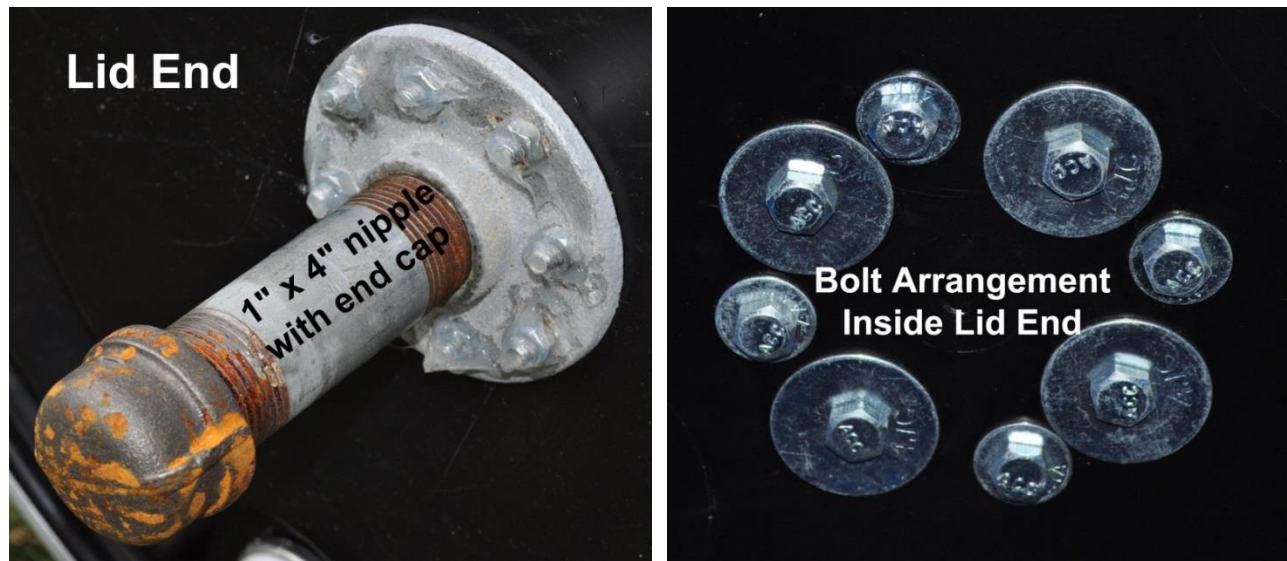




The internal baffle is optional but will assure a good stir on each turn







Covering exposed bolt and nuts makes removal easy at a later time.



The **end** cap is not absolutely necessary, but it makes a nice safety catch.





Installing the drum on the A-frame in this position can easily be done by one person.





It is important to install the barrel in the A-frame so the door tilts up for unloading.



Should the need arise to move a loaded composter two people can easily lower the unit to the ground to be wheelbarreled to the new location.