



Thunder Drum

Installation Instructions

NOTES: Please check for any damage caused by the shipping company and take appropriate steps to file a claim, if needed.

*Please call **Digsafe** and check for any underground utilities before digging anywhere.

Materials needed

Cordless driver/drill w/ bit (torque driver bit provided in kit), Post hole shovel, spade shovel, level, tape measure, hand tamp, and fourteen (14) 50lb bags of fast-setting premixed concrete (not included). Concrete amount required may vary depending on how deep you can get the holes. Concrete amounts can be easily calculated at <http://www.quikrete.com/Calculator/Main.asp>.

Instructions

1. Remove items from pallet. You should find two (2) PT Legs, one (1) Thunder Drum assembly, and one (1) package of screws.
2. Move Thunder panel and the legs, hardware package, and tools to desired installation location.
3. Attach the pressure treated 2x4 legs to the bottom left and right edges of the Thunder Panel frame. With the cut angles facing up, slide the PT legs up on both sides of the panel frame so the angled cuts fit snugly under the angled cedar cuts. Snug the angled cuts together as tightly as possible, and then use the fasteners provided to screw on the legs (see picture to confirm directions).
4. Move Thunder Drum assembly to desired location and lay assembly on ground. Position the assembly so the legs are close to the location you want and mark the location of the leg bottoms.
5. Move the Thunder Drum assembly slightly away from marked locations to give you room to dig post holes for the legs.
6. Using post hole diggers or shovel, dig post holes at a diameter of 1'-0" and post hole depth to approximately 4'-0" (depending on region). The bottom of hole should "flare" out a little to create a bell shape to prevent frost heaving the post where applicable. Check local codes for the frost line in your area.
7. Using the hand tamp, compact any loose material at the bottom of the hole.
8. Test fit the Thunder Drum assembly in the post holes and make any adjustments to the hole location and the length of the post so the post is at the appropriate height and surrounded by equal amounts of concrete when poured. Post are left intentionally long for areas that they need to extend below a frost depth.

*Note: If you encounter immovable objects the legs can be trimmed so the grade marks on the legs end up at finished grade.
9. Fill the bottom 6" of hole with drainage stone. Then lift Thunder Drum assembly and set bottom posts into post holes so grade mark is at grade. Again, trim the bottom of the posts if necessary. Using the hand tamp, compact any loose material at the bottom of the hole.
10. Using a bubble level, check the level of the Thunder Drum assembly by placing the level across the top. Then plumb the legs in both directions by placing the level on two adjacent sides of the legs or frame. It is optional to hold this positioning by using strapping and stakes, but it is not required.

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11. Holding the Thunder Drum assembly upright by hand or with strapping, fill 1/4 of the hole with fast setting concrete mix and add water per instructions on bag. Recheck to make sure Thunder Drum is level and plum, and make any adjustments.
12. Fill the rest of the hole with concrete per instructions on bag, stopping four inches below the grade line marked on the Thunder Drum legs. Recheck to make sure Thunder Drum is level and plumb periodically while concrete cures. Let cure for 24 hours.
13. Backfill hole and hand tamp good draining soil firmly to 3" below finished grade. Install top soil to finish grade and plant grass to fill in around hole.
14. All wood is treated with kid-friendly preservative, but as is the case with all wood facing the elements, it needs to be cared for, so check it periodically for rough spots, splinters, etc, and sand them out, and treat it with kid-friendly wood preservative (we have it available if you can't find it) once or twice a year to keep the wood from deteriorating.
15. Thunder drum is "played" by drumming with the fingers, or by hitting with the palm of the hand to create a low, resonant, thunder-like sound that can be loud or soft depending on how hard it's struck (*avoid striking the surface with a mallet or sharp object*), as this will damage the panel. Do NOT hit hard, or panel will bend.
16. Enjoy your Thunder Drum!

