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## Rigging Kit 3b Instructions – Concrete Ceiling Installation

This rigging kit is intended for applications where there is an overhead structural ceiling of reinforced concrete.

**NOTE:** Always verify concrete ceiling integrity with building engineer or contractor. Installing the zone into an insufficient building structure can be dangerous for both the zone installation and the building itself. It is recommended that a licensed engineer or person responsible for structural integrity approve of connecting this bracket to the existing structure. Installation shall be by a licensed contractor only. Kodama Zones assumes no responsibility for the integrity of the concrete structural element or connection thereto.

### Kit includes:

- Concrete Bracket
- (2) Quick Links
  - Polyester Rope with Thimble Eyes. (Order length as Ceiling Height minus 6'-6" feet for the Large Lounger, 6'-2" feet for the Small Lounger. Extra length is good just in case.)
- optional – Swivel and extra quick link





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### Concrete requirements and Anchor Selector:

- The concrete ceiling must be a minimum of 4.5 inches thick, reinforced with rebar, and a designed structural element capable of supporting a 1,200lb point load at bracket for the Large Zome Lounger (1000lbs for the Small Zome Lounger)
- This kit does **not** include the anchoring mechanism for concrete embedment. You must provide one of the following methods. Verify that your choice of anchors is appropriate for the concrete structure:
  - (3) ½” Simpson® Wedge-All Wedge Anchor – Min 3-1/2” concrete embedment
  - (3) ½” Simpson® Strong-Bolt 2 Wedge Anchor – Min 3-1/2” concrete embedment
  - (3) ½” Simpson® Titan HD Screw Anchor – Min 3-1/2” concrete embedment

### You will/may need:

- Extension ladder
- 6- to 8-foot step ladder
- Concrete drill bit and rotary hammer drill
- Simpson® Concrete Expansion anchors (see above) and tightening device (with torque reading)
- Tape (electrical, masking, painters, duct – anything really)
- Measuring Tape

*Caution: Rigging is dangerous, improperly hanging a zome may result in injury.*

### Assembly Instructions.

1. Select the location of the center of the zome – allow for at least 5’ of clearance from this center for zome swing – the longer the rope length, the greater the swing, and the greater clearance required.
  2. Mark the location of the (3) holes in the bracket on the concrete surface overhead.
  3. Follow **anchor** instructions for required hole diameter, depth and surface preparation.
  4. Drill (3) holes into concrete structure.
  5. Install the **Hanging Bracket** with the Simpson® **anchors** per Simpson® spec. Bracket should be tight and not able to slide from side to side. Ensure tight fit – do not overtighten anchors.
  6. Using the quick link, connect the thimble-knot end of the rope to bracket, let the rope hang.
  7. If your rope has 2 pre-made knots, is it based on the dimensions that you provided to us. If your rope only has one knot pre-made, you will need to tie the second knot yourself with the following steps.
  8. For the free-hanging end of the rope, measure 70 to 72 inches from the ground for the Large Lounger (66 to 68 inches for the Small Lounger) and place the middle of the extra thimble at this point – it is good to secure the thimble to the rope with a piece of tape so you don’t lose your place while tying the knot. This is the center point of the “bight” in the figure-eight knot (see illustration below)
  9. There should be at least 24 to 30 inches of free rope below the bight. If not, you need longer rope.
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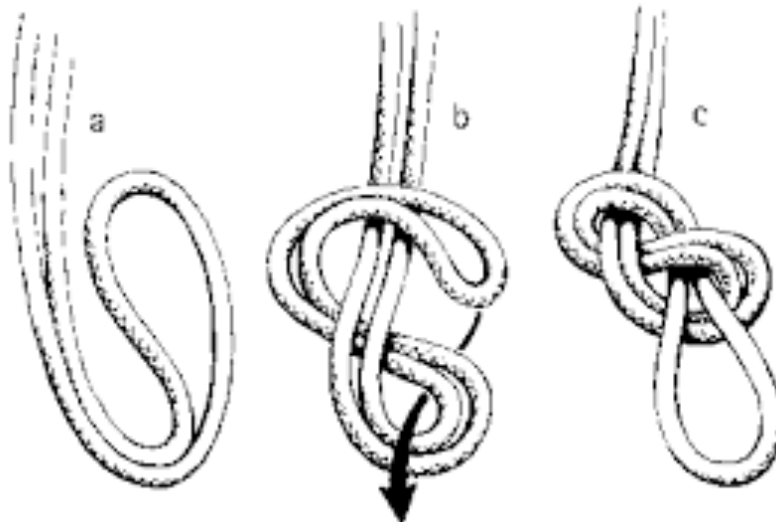


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10. Tie the figure-eight on a bight knot with the thimble being the center of bight.
11. Inspect the knot carefully to make sure it is tied correctly. Pull tight.
12. The bottom thimble should be approximately 82 to 84 inches off the ground for the Large Lounger (78 to 80 inches for the Small Lounger). The rope will stretch a bit, so a little higher is OK. Adjust and re-tie the knot as needed.



13. Attach the quick link to the bottom thimble.
14. *(optional) if you are using a swivel, the taped thimble “bight” should be at 76 inches for the Large Lounger (72 inches for the Pod), resulting in a finished thimble knot at about 88 inches off the ground (84 inches for the Small Lounger). Attach a quick link, the swivel, then the other quick link. The bottom quick link should be about 82 to 84 inches off the ground (78 to 80 inches for the Small Lounger).*
15. You are ready to hang your zome!

If you have any questions or encounter any problems with installation, please give us a call or send us an email. We are here to help!

The KODAMA Team



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