

SoundTemple Assembly Guide

July 2, 2026

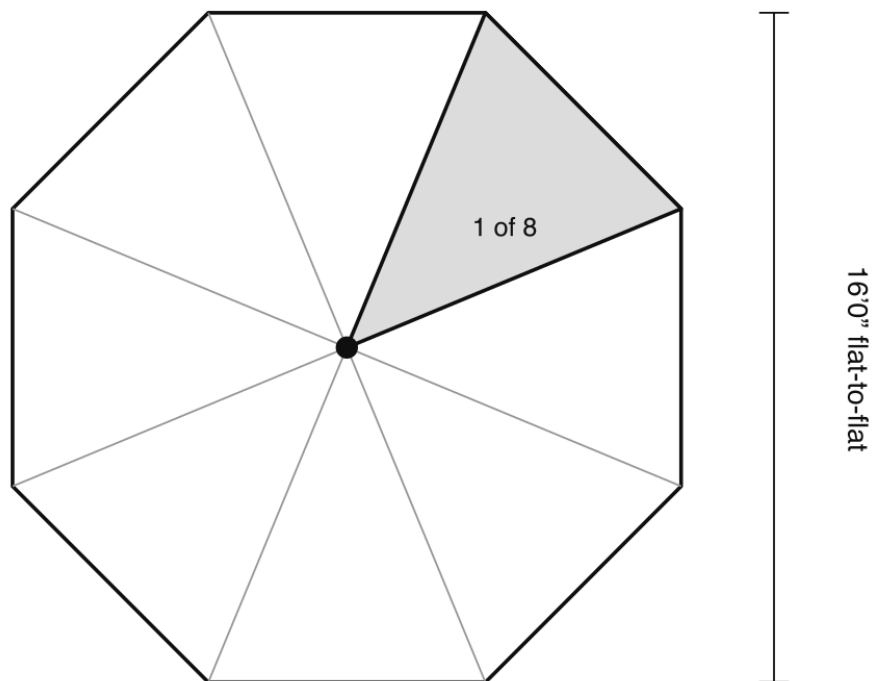
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SoundTemple Assembly Guide

A modular octagonal sound bed, built one wedge at a time. This guide covers every part of the build: the frame, the cushions, the hardware, the transducers, the electronics, and the removable cover, plus how to scale the whole thing up or down. Read it the way you'd read a flat-pack furniture manual: one section per part, in the order you'll actually build it.

Each build is hand-assembled in NYC. Lead times depend on size and finish. Reach out for a current schedule.



Full reference build: 8 wedges, 33 transducers, 2 amplifiers

A. Full Bed Footprint

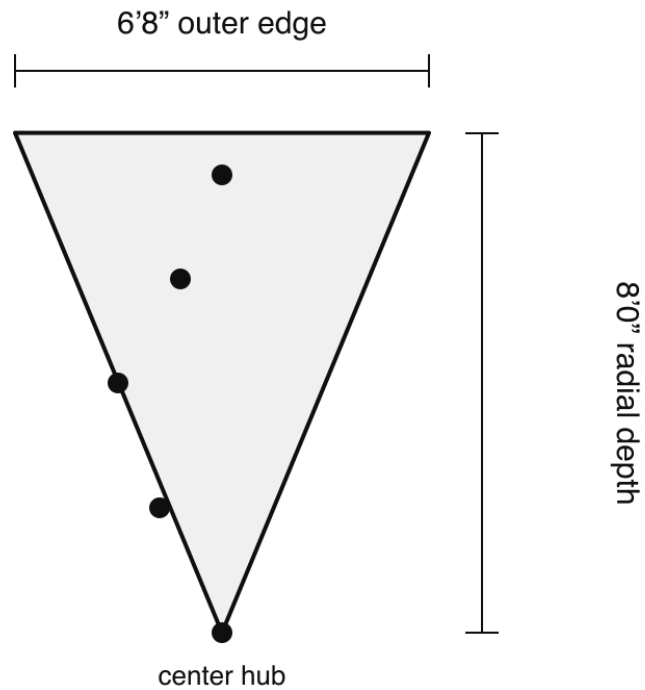
The reference build is a full 16ft-diameter octagon, 8 wedges, measured flat-to-flat (side to side, not corner to corner).

Spec	Value
Outer diameter (flat-to-flat)	16'0" x 16'0"
Wedges	8 / 8
Transducers	33 (4 per wedge, plus 1 shared center)
Amplifiers	2 (one 4-channel for the outer rings, one mono for the center)
Audio interface	Behringer U-Phoria UMC1820 x 1
Coverage	256 sqft
Cable runs	66 (one red, one black, per transducer)

The bed scales two ways: outer diameter (8ft-24ft) and wedge count (1-8). Reducing wedges builds a partial bed, useful for tight rooms or solo seats. Transducer and amplifier counts depend only on wedge count, not diameter.

B. The Wedge

Every build, at any size, is made of identical modular wedges. Each wedge is a complete structural + cushion + wiring unit that bolts to its neighbors at the shared radial edges.



1 wedge = 1/8 of the full octagon

4 outer transducers + shared center transducer

At the 16ft reference size, one wedge measures roughly 6'8" along its outer edge and 8'0" from the outer edge back to the center hub. Each wedge carries 4 transducers in a line from the outer edge toward the center, and shares one additional transducer with the other 7 wedges at the center hub.

C. Wood Frame

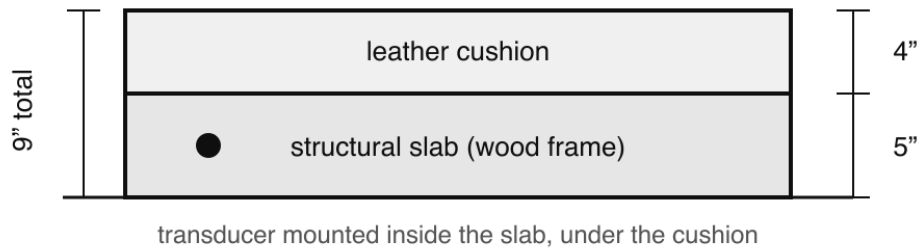
The structural slab is the load-bearing layer every wedge is built on.

- **Thickness:** 5" (structural panel)
- **Material:** kiln-dried hardwood frame, plywood core
- **Corner treatment:** rounded fillet at every outer corner, no sharp edges
- **Finish:** customizable wood stain, default #D9CDB4 (light natural)

D. Cushion

A plush leather comforter sits on top of the slab, one per wedge.

- **Thickness:** 4" (foam core, leather wrap)
- **Inset:** roughly 4" frame margin around each cushion so the wood edge stays visible
- **Finish:** customizable leather color, default `#6B4A2C` (saddle brown)



Stacked, the slab and cushion come to 9" total from floor to the top of the cushion.

E. Hardware

Wedges bolt together at the shared radial edges, and each wedge bolts to a center hub plate.

Part	Spec	Qty per wedge
Wedge-to-wedge bolts	3/8"-16 x 3" hex bolt, zinc-plated, with locking washer	4
Center hub bolts	3/8"-16 x 2" hex bolt, into steel hub plate	2
Cap nuts	3/8"-16, domed, for exposed bolt ends	6

All hardware is furniture-grade and torque-rated for repeated assembly and disassembly, so a build can be taken apart and reconfigured (or partially disassembled for moving) without replacing bolts.

F. Transducers & Electrical

Each wedge carries 4 tactile transducers in its outer ring, plus a share of 1 transducer at the center hub.

- **Type:** tactile bass transducer (voice-coil driven), mounted to the underside of the slab, under the cushion
- **Power handling:** 25W RMS per transducer, 4-ohm voice coil
- **Effective range:** full 20Hz-20kHz driver, tuned and typically driven 20-200Hz for full-body felt bass
- **Amplification:** outer-ring transducers run to a 4-channel amplifier (one channel per ring position: head, heart, belly, feet); the shared center transducer runs to a dedicated mono amplifier
- **Cabling:** 2 runs per transducer (1 red, 1 black), routed along the ring back to the amp
- **Power draw:** a full 8-wedge build (33 transducers, 2 amps) draws under 900W at full signal; typical listening levels run well below that. A single standard 15A/120V outlet is sufficient.

This wiring topology (2 amps total) holds at every size, from a single wedge up to the full octagon. Partial builds just have fewer transducers per ring feeding the same 2 amps.

G. Audio Interface

Both amplifiers feed into a single **Behringer U-Phoria UMC1820**, an 8-channel USB audio interface. This is the only connection point between the sound bed and a source.

The UMC1820 connects one of two ways:

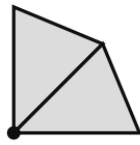
1. **To a laptop or desktop**, running your DAW or playback software directly, for live-mixed or one-off sessions.
2. **To a dedicated always-on mini PC** (Mac mini or similar small form-factor machine), pre-loaded with SoundTemple OS, so the room runs its programmed sessions without a laptop present. This is the standard setup for a permanent installation.

Either way, the interface is the single handoff point: swapping between “laptop mode” and “mini PC mode” is a USB cable swap, nothing else changes.

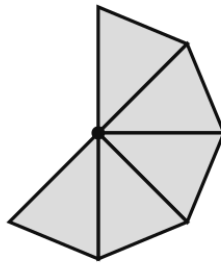
H. Scaling

Start with a single wedge. Add more later without rebuilding what’s already installed.

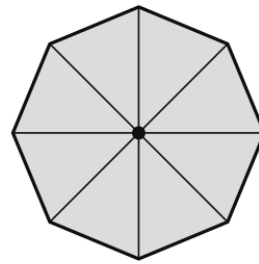
Start with one wedge, add more later. Same wiring topology at every size.



2 wedges
9 transducers



5 wedges
21 transducers



8 wedges (full)
33 transducers

Wedges	Transducers	Amplifiers	Cable runs	Coverage (at 16ft)
1	5	2	10	32 sqft
2	9	2	18	64 sqft
4	17	2	34	128 sqft
6	25	2	50	192 sqft
8 (full)	33	2	66	256 sqft

The bed also scales by outer diameter independent of wedge count. At a full 8-wedge octagon:

Diameter	Coverage
8'0"	64 sqft
12'0"	144 sqft
16'0"	256 sqft
20'0"	400 sqft
24'0"	576 sqft

Larger diameter means larger individual wedges (more radial depth per wedge), not more of them. Wedge count and diameter are independent controls.

I. Comfort Cover

Each wedge ships with a custom-fit quilted cover, cut to the exact cushion size for the build you ordered, essentially a yoga-mat-weight drape sized per wedge rather than a universal throw.

- **Fit:** cut to match your specific cushion dimensions (not one-size-fits-all, since wedge size scales with the build)
- **Material:** quilted cotton-poly blend, same weight class as a yoga mat towel
- **Attachment:** hidden snap tabs along the underside edge, drapes over the cushion and stays in place during a session
- **Removal:** unsnap and lift off, no tools needed

J. Care & Cleaning

- **Cover:** machine wash cold, delicate cycle, no bleach. Hang dry, do not tumble dry (the quilted layer can warp under heat).
- **Cushion (leather):** wipe down with a damp cloth; do not machine wash. Spot-clean only.
- **Frame:** dry dust or a barely-damp cloth. Avoid saturating the wood joints.

Wash the cover between sessions with different guests, same as you would a shared yoga mat.

Get a Quote

For a custom build (size, wedge count, or finish outside the reference spec), reach out directly:

gonzalo@generalsemantics.nyc