

## Long String Instrument Installation

- **Resonant space – not outdoors – no carpet**
- **Installation footprint minimum** (2m x 16m)
- **Rigging**
  - Directly screwed into walls or floors
  - Tie-down belts
  - Free-standing counter-weight frames (820 kilos (1800 lbs) sandbags each side)
  - Specific to venue rigging will be drawn up using floorplan and photos
- **Resonator boxes travel in 2 standard weight and size checked luggage**
- Pull-out load +/- 400 kilo (900 lbs.) per resonator. No injuries ever occurred, wires are very thin and fall to the floor if they break.
- **Technicians** construct framework and set-up for one or two days
- **Smooth coverage lighting** installed along string pathways
- **Sound reinforcement** Four speakers (Meyer Sound, d&b, L-Acoustics, or equivalent) placed in corners, plus a sub woofer. Fullman travels with two microphones.
- **Backline** 8 fluid oz. 90% Isopropyl Alcohol, 3 short mic stands, 1 standard boom stand, cello chair, small table for laptop, 2 meter square stage riser

## Timeline

- **Before Artist's Arrival** Hardware materials purchased and framing constructed as far as possible. Use heavy duty lumber and heavy duty hardware.
- **Day 1** Move-in or fabrication of support structure and attachment into walls or floors. Resonators and tuning blocks attached to framing. Install string.
- **Days 2** Tensioning string, preparing for tuning. lighting instruments installed
- **Day 3** Tensioning, tuning, voicing, sound check at end of day
- **Day 4** Rehearsal, tuning touch up, performance
- **Strike – 1 hr** (with help) – all touring components packed into luggage

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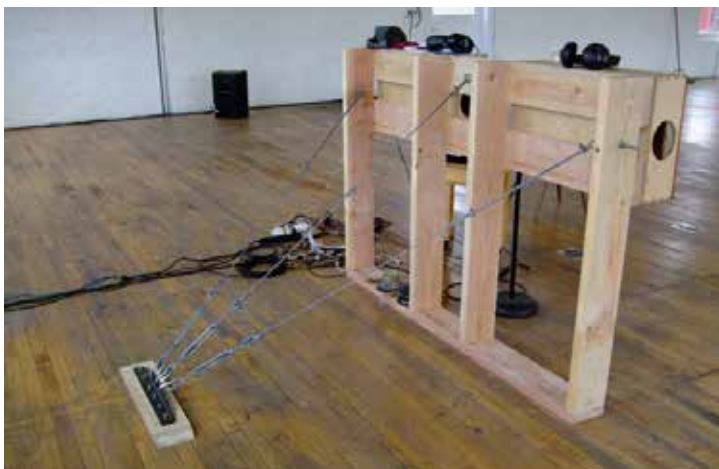
**Wall-mounted** Cheapest and easiest method using 2x6s (5x15s) and screws

**free-standing installation**

Where it is not possible to put screws into the floors or walls, counter-balanced weighted stands are constructed. Trays are filled with 820 kilos sandbags on each side.



**Tie-down belts** used to anchor to columns



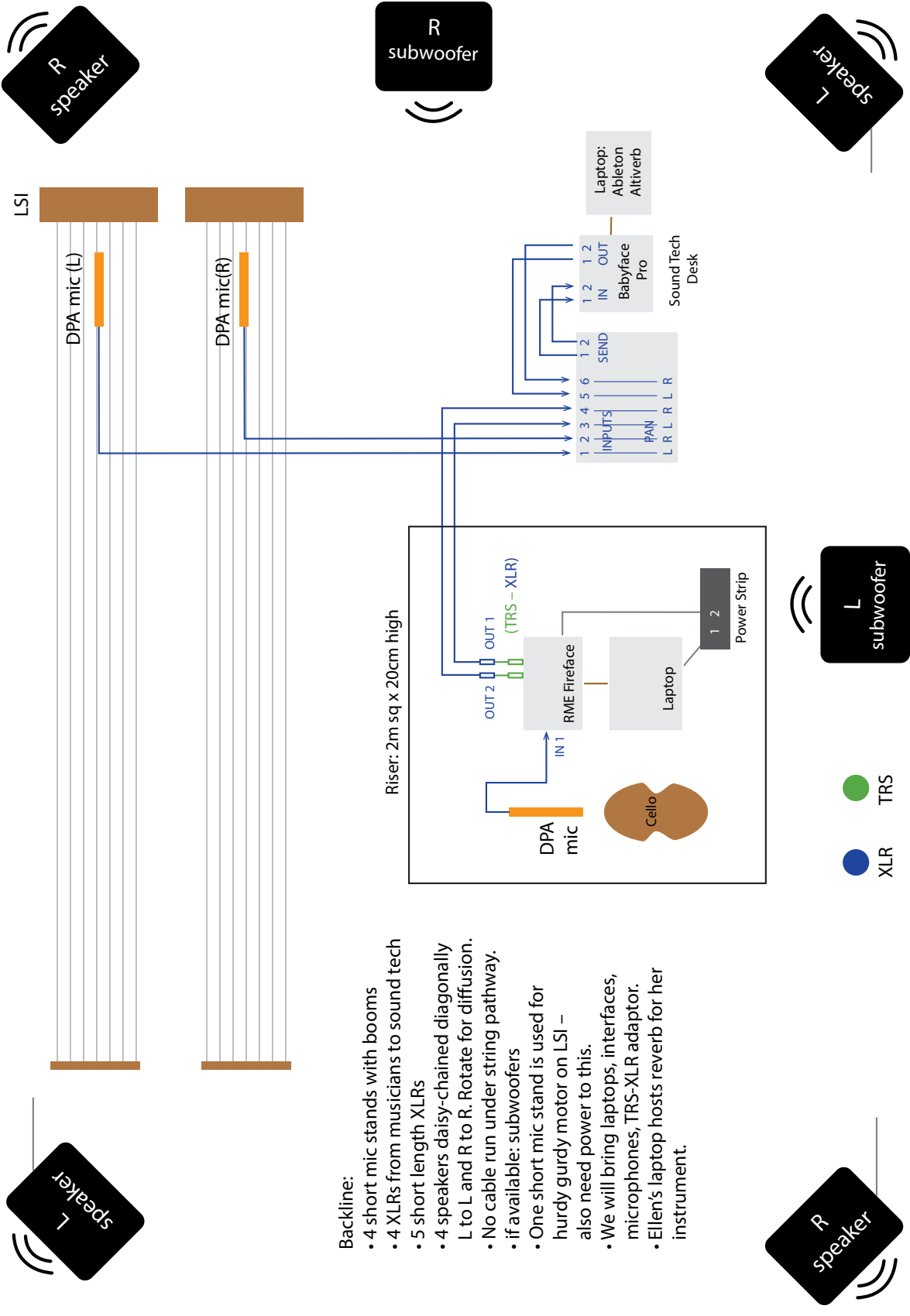
Framing **bolted to the floor** and triangulated cable



**Lighting design for LSI**

Create highlights along the string pathway.  
Without lighting the fine wires are nearly invisible.





**Backline:**

- 4 short mic stands with booms
- 4 XLRs from musicians to sound tech
- 5 short length XLRs
- 4 speakers daisy-chained diagonally L to L and R to R. Rotate for diffusion.
- No cable run under string pathway.
- if available: subwoofers
- One short mic stand is used for hurdy gurdy motor on LSI – also need power to this.
- We will bring laptops, interfaces, microphones, TRS-XLR adaptor.
- Ellen's laptop hosts reverb for her instrument.