

**MASS Ensemble**  
**Technical Rider**  
Requirements & Installation Details

**SOUND**

Purchaser to provide concert quality sound system and backline to suit the needs of the overall program inclusive of the Mass Ensemble performance. Please check with MASS about specific needs for your show.

- High Quality sound system adequate for venue - with operator
- High Quality Reverb and Delay unit
- 6 monitors – two mixes

Instrumentation: (varies per event)

- Earth Harp – 2 sm57s and one Direct Box
- Drum Cloud – 2 mics on stands – sm57s
- Aquatar – 3 Direct Boxes
- Electro Acoustic Guitar – 1 Direct Box and Power
- Electric Guitar – 1 Direct Box and Power or
- 1 Mic - SM 57 or 58 for Guitar Amp and Power
- Violin - 1 Direct Box and Power
- SPD Electronic Drum Pad - 1 Direct Box and Power
- Drum Jacket – 1 Direct Box
- Percussion - 1 mic on short stand
- 3 Vocal mics (with 1 Wireless if possible)

**BACKLINE**

- 1 Full rock drum kit with cymbals – (3 toms, kick, snare, high hat cymbals, ride cymbals, 2 crash cymbals) **or** 1 (Electronic) Roland V Drum Kit – TD 40 (please consult with producer)
- 1 Guitar Amplifier (either Fender Twin or similar)

**LIGHTING**

Purchaser agrees to provide a lighting system and operator to be mutually agreed upon by Event Producers, Lighting Director, and Mass Ensemble. Floor lighting to showcase the Earth Harp and dedicated fixtures to highlight individual performers and instruments to be included and decided on a case to case basis. The general parameters of our requirements are as follows:

- Theater Lighting operator
- 6 par cans on floor mounts for the Earth Harp
- Follow Spot with operator
- 4 – 8 moving lights resting on the stage if possible – with operator
- Three even washes Ambers, Reds, Blues



- 3 different sunrise effects or back scrim
- Side lighting white and amber
- Hazer and smoke machine
- 7 down lit specials for performers. Suggestions:
- Downstage left special for drums – white
- Downstage left special for vocalist – rose
- Downstage RT special for Guitar– amber
- Downstage RT special for Aquatar – white
- Downstage center two specials side by side – rose
- Mid stage center two specials side by side – rose
- Up stage floor two lights to backlight drum clouds.

### **ON STAGE RIGGING**

Most performances require 1-3 Rigging points

- Drum Cloud: two hang points 40 lbs total

### **ADDITIONAL STAGING NEEDS**

- 8' x 8' x 1'h carpeted drum riser

### **LOAD IN AND LOAD OUT**

Load in and setup takes approximately 6 hours for all instruments including Earth Harp. Load out is one hour. Four stagehands are needed for load-in, setup and load-out. Once the instruments are set, they should not be moved until after the performance. After the performance, all of the instruments except the earth harp can be quickly moved off stage, provided there is enough room in the wings, or they can be dismantled approx 1/2 hr.

### **EARTH HARP STAGING AND RIGGING STAGE**

The Earth Harp Base (Resonating Chamber) requires at minimum an 8ft X 8ft staging platform that is roughly 3ft - 4ft in height. The Earth Harp can be affixed to the stage with 6 - 8 small wood screws that go straight into the platform. If it is not acceptable to drill directly into the stage, then 1000 lbs of stage weight will be necessary to keep Earth Harp in place on the stage. Often a single tie off point behind the Earth Harp, which a ratchet tie can be attached, is also advisable.

Necessary materials:

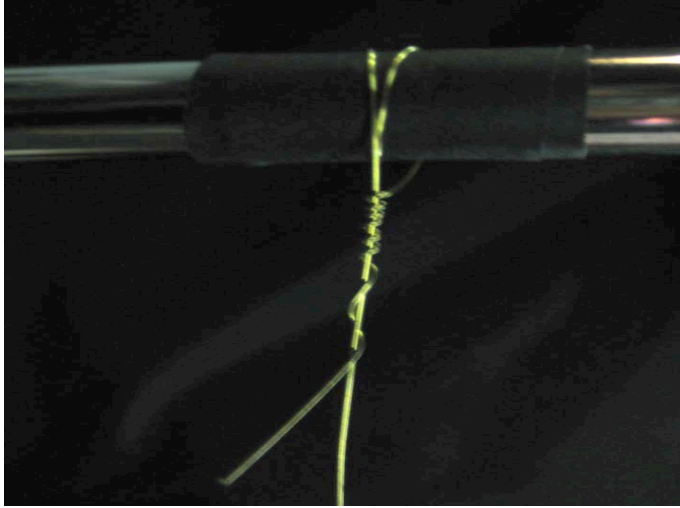
1. Stage (pre-set before installation begins)
2. Power Drill
3. 1000lbs of Stage Weight (if it is not possible to drill wood screws into the stage)



## **STRINGS:**

The strings are made of brass wire and are 0.035 in diameter, which is roughly the thickness of spaghetti. The strings attach directly to a truss or any existing architectural structure. The strings wrap around a railing or other tubular aspect of the architecture, or a large C-clamp can be attached to the architecture and the strings attach to the C-clamp. To complete the process, the strings tie off onto themselves and are then pulled by hand to create the necessary tautness. There is very little tension put on the strings, roughly 50 lbs of torque per string. The strings are pulled to tension by hand. The strings are pulled by the weight of a person slightly leaning back. The strings just need to be straight this is the only requirement. Installations are usually 12 – 16 strings in total and there is great caution in dealing with the architecture. There is never a great deal of tension at any one point in the architecture as the strings go to multiple points, dispersing the tension load.

String Attachment:



## **TUNING:**

The strings run from the resonating chamber of the Earth Harp at the Stage to the Truss or Architectural Structure. The strings are then pulled taut, and then tuning can begin. Wooden blocks are attached to the strings at specific distances from the Earth Harp chamber. A Scissor Lift and or a large A-Frame Ladder will be necessary to reach the strings and attach the tuning blocks. For safety we wrap gaff tape around the blocks and use a wrench to tighten the wing nuts.

Necessary materials:

1. Scissor Lift that can reach at least 40 ft or a 15 ft A-Frame Ladder
2. Gaff tape

## **LIGHTING**

The Earth Harp looks best when lit from beneath the strings with 4 - 6 par cans. The strings can also be lit from the tie-off point on the architectural structure or truss

The brass conducts light beautifully, so the more light the better. The performer stands in front of the resonating chamber approximately 1/2 foot and will also need lighting.

Necessary materials: (minimum)

1. 4-6 par cans at the bass (white, amber or other color gel)
2. Stage lighting for performer

Image of Earth Harp with performers & lights:



### **MAN POWER and TIMING**

The Earth Harp takes about 4 hours to set up in most locations. If the installation is extensive, a tall building or unusual structure, it may take 6-8 hours.

A minimum of 4 people (provided by the venue) are required for an Earth Harp installation; this allows for 2 individuals at the stage and 2 individuals at the other end. If the distance spanned is greater than 200ft, it is best to have 1 – 2 other individuals to run the string and for safety in a public setting. When possible, it is best to do set up the day before the event.

### **SECURITY**

Purchaser shall provide adequate security to guarantee the safety of the audience and the Artist. Special arrangements shall include overnight security as necessary to protect Artist's unique group of instruments, which may be left overnight in public places.

### **DRESSING ROOM**



Purchaser shall provide a minimum of 2 lockable, safe, clean, dressing rooms. Purchaser shall provide backstage security to prevent unauthorized personnel from having access to the dressing area. Special arrangements shall include a storage room for packing equipment and carts.

## **HOSPITALITY**

Unless otherwise indicated, Purchaser will provide an allowance of hot and cold beverages, including juices and unlimited bottled water in the dressing rooms for the sole use of Artist and crewmembers (up to 10 people). In addition all performances require the following:

- Two bottles of Chardonnay
- Two 6 packs of imported beer
- Unlimited Tea, coffee, water and fruit

Specific catering requirements include raw, vegan and gluten free items. Please communicate directly with Mass for specific needs, as they vary based on performers.

- Morning shows: Odwalla juices, bananas, black tea, herbal tea, soy milk, honey, water, pastries
- Afternoon shows: Vegetarian sandwiches and salad, fruit, soda, water
- Evening shows: 4 Chicken or fish entrees, 4 vegetarian entrees, tea, water, sodas

## **INSURANCE**

Purchaser shall obtain and maintain, at its own expense, adequate personal injury and property damage liability insurance coverage and such coverage shall extend to all activities related to Artist's engagement and performance. Except for claims arising from Artist's willful or intentional acts, Purchaser shall indemnify Artist for any third party claims.

## **VIDEO AND AUDIO TAPING**

Artist will have unlimited rights to document the performance through audio and/or video and to use the performance for commercial or promotional purposes. Purchaser shall not arrange for video or audiotaping or live broadcast without first receiving written approval from Artist.

