

## **TECHNICAL RIDER - harmonica ensemble "ANIMATO"**

### **Sound check:**

- should take place at least 90 minutes before the concert starts,
- time needed for carrying out the sound check is approx. 45 minutes provided the sound equipment readiness.

### **Stage lighting:**

- during performance - static, bright lighting enabling play from music sheets placed on music stands, not dazzling the musicians,
- breaks in playing (applause, speech etc.) - dynamic lighting of different intensity and color is allowed.

### **Sound equipment:**

Harmonicas emit sounds in the bandwidth of 40-20 000 Hz (the lowest basic bass sound is E in contra octave, harmonically they reach the upper acoustic limit). The professional sound equipment with parameters adequate to the size of the concert hall / open air-stage and support of the sound engineer is necessary (before and during the concert) to achieve the required sound quality and provide expected performance level.

### **Expected requirements of sound equipment:**

- 1) Three microphone stands + optional one stand for speech
- 2) Directional microphones (preferable hypercardioid) with the following parameters:
  - three dynamic or condenser microphones for two chromatic harmonicas and one chord harmonica operating in the bandwidth 120-20 000 Hz.
  - one dynamic or condenser microphone for bass harmonica with good frequency of bass transmission operating in the bandwidth 40-5 000 Hz (input on the mixer console / amplifier should work wideband - HPF filter off)
  - one microphone, suggested Shure SM 58 class for speech.
- 3) at least two stage speakers,
- 4) at least one floor monitor speaker on a stage,
- 5) mixer with a minimum 3-bandwidth parametric equalizer and reverb effect (hall effect) or with a separate camera reverb (hall effect) ,
- 6) subwoofers - necessary to achieve the full, required sound of the bass harmonica,
- 7) table / 1-2 chairs on a stage for instruments.

Any change in technical conditions of above rider should be agree with "Animato" ensemble.

### **Technical questions:**

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