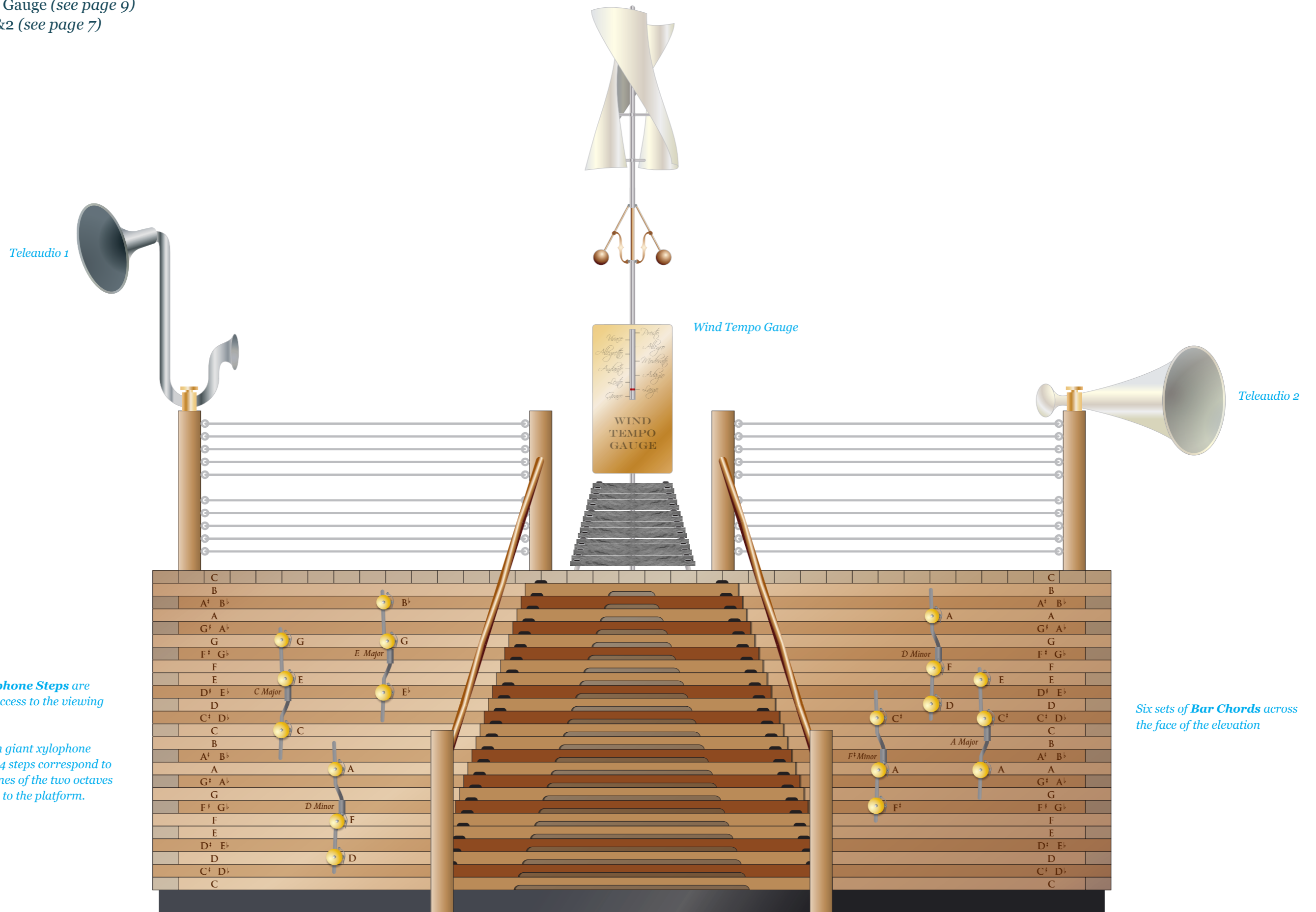


Elevation 1 (looking east)

Xylophone Steps
 Bar Chords (see page 11)
 Wind Tempo Gauge (see page 9)
 Teleaudios 1&2 (see page 7)



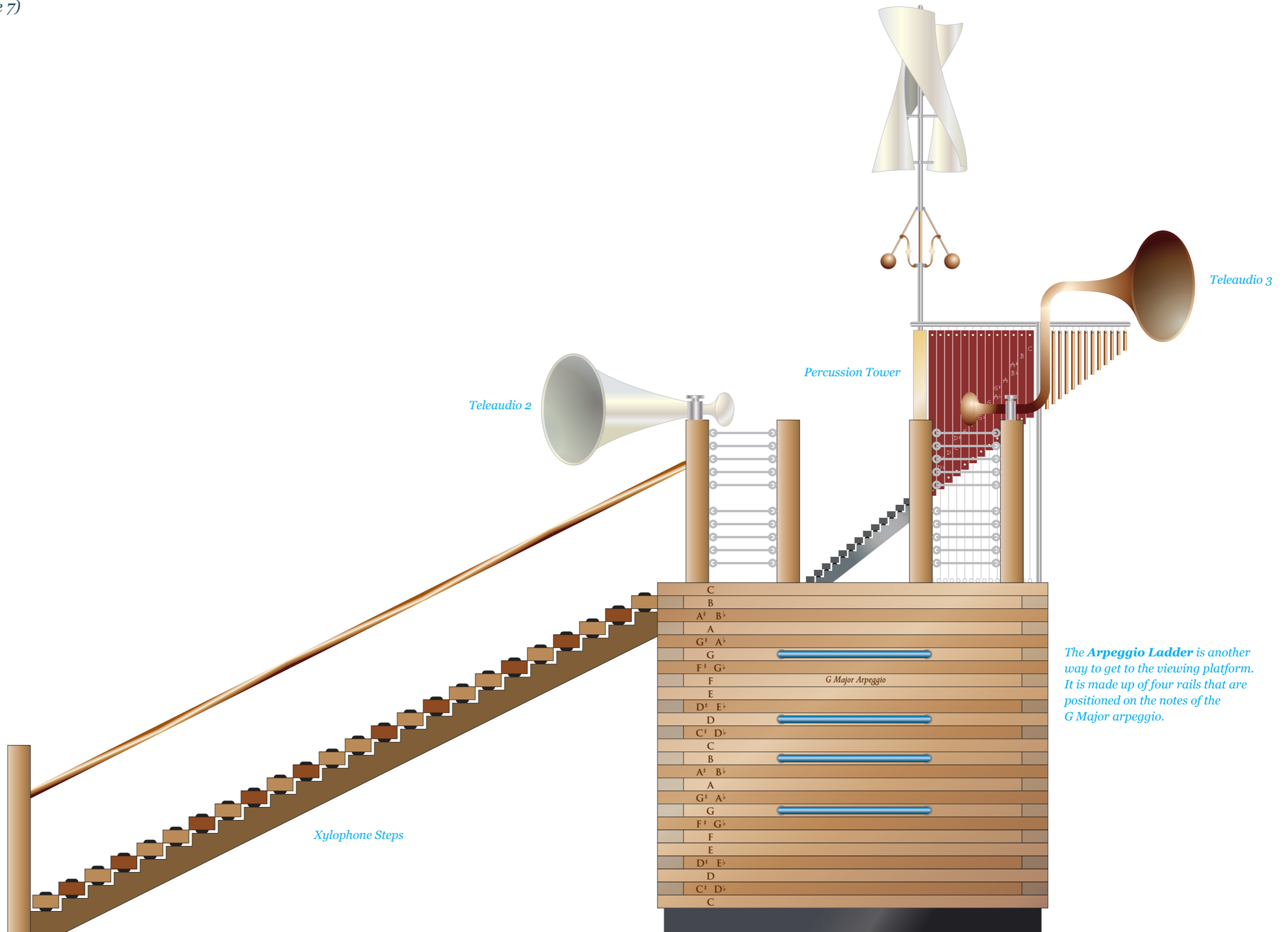
The **Xylophone Steps** are the main access to the viewing platform.

Made from giant xylophone bars, the 24 steps correspond to the semitones of the two octaves leading up to the platform.

Six sets of **Bar Chords** across the face of the elevation

Elevation 2 (looking north)

Arpeggio Ladder
Percussion Tower (see page 8)
Teleaudios 2&3 (see page 7)

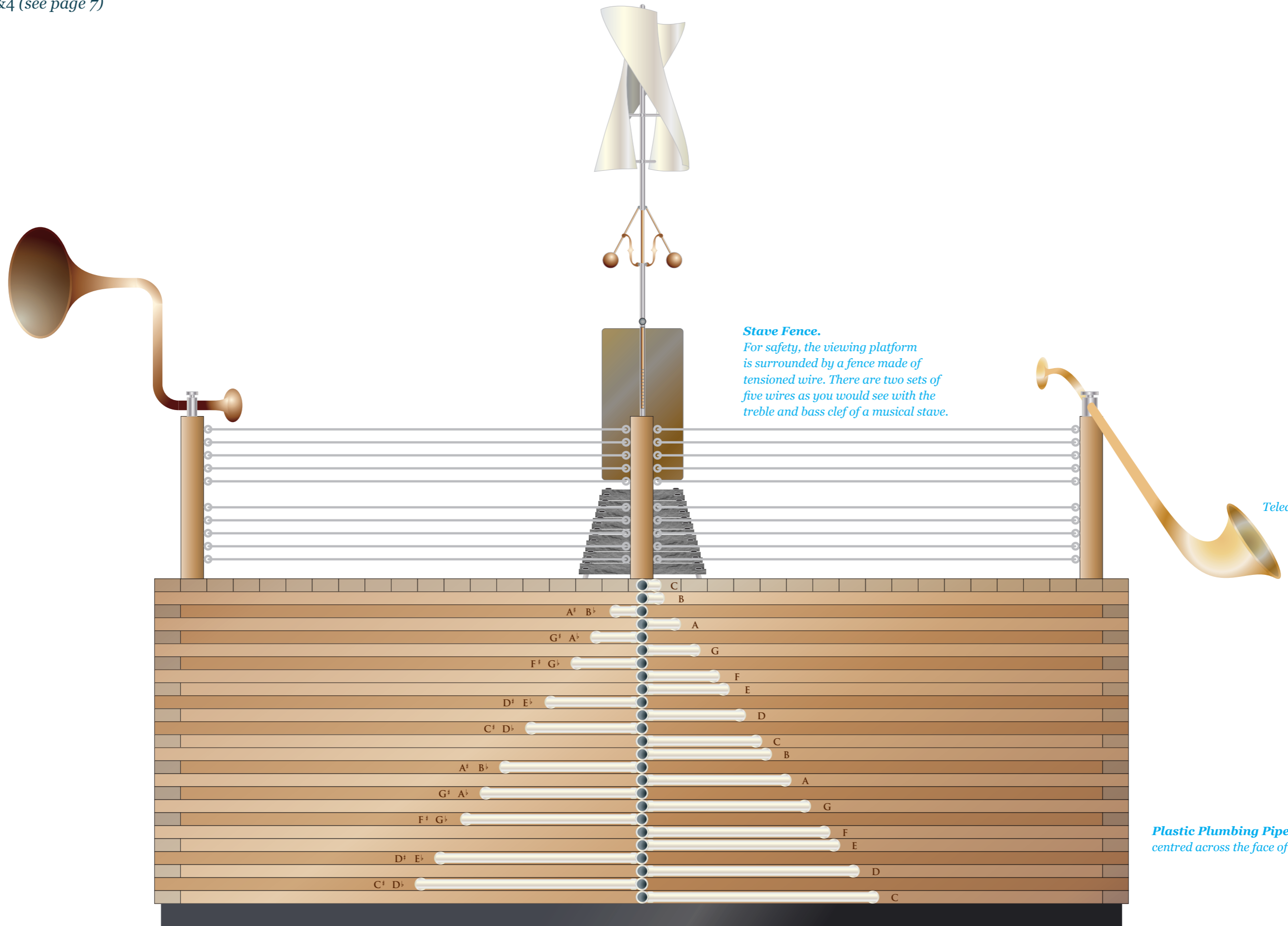


The Arpeggio Ladder is another way to get to the viewing platform. It is made up of four rails that are positioned on the notes of the G Major arpeggio.

Elevation 3 (looking west)

Stave fencing
Plastic Plumbing Pipe Organ (see page 10)
Teleaudios 3&4 (see page 7)

Teleaudio 3



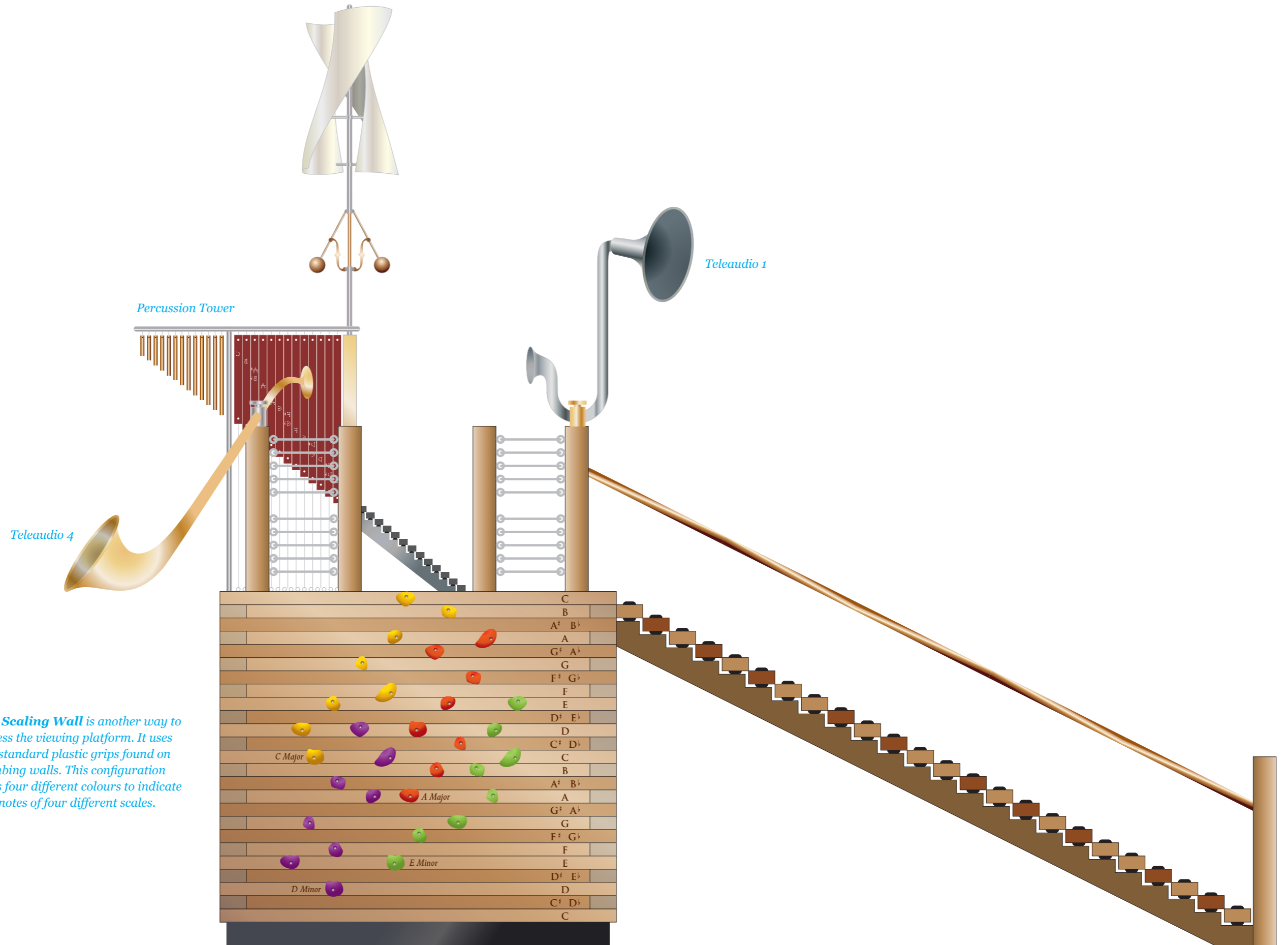
Stave Fence.
For safety, the viewing platform is surrounded by a fence made of tensioned wire. There are two sets of five wires as you would see with the treble and bass clef of a musical stave.

Teleaudio 4

Plastic Plumbing Pipe Organ
centred across the face of the elevation.

Elevation 4 (looking south)

Scaling wall
Percussion Tower (see page 8)
Teleaudios 4&1 (see page 7)



Teleaudios

Teleaudios are listening devices that amplify and focus sounds. Sited on each corner of the viewing platform, they will help the listener pick up sounds from the surrounding landscape. They are designed to rotate through an arc of 90-120° away from the platform.

They will each be made from different materials and will all have their own distinct character.



Percussion Tower

The **Percussion Tower** consists of three different instruments made from different, everyday materials. Each one covers all the semitones of a full octave, each octave higher than the previous one. The higher up the tower, the higher the note.

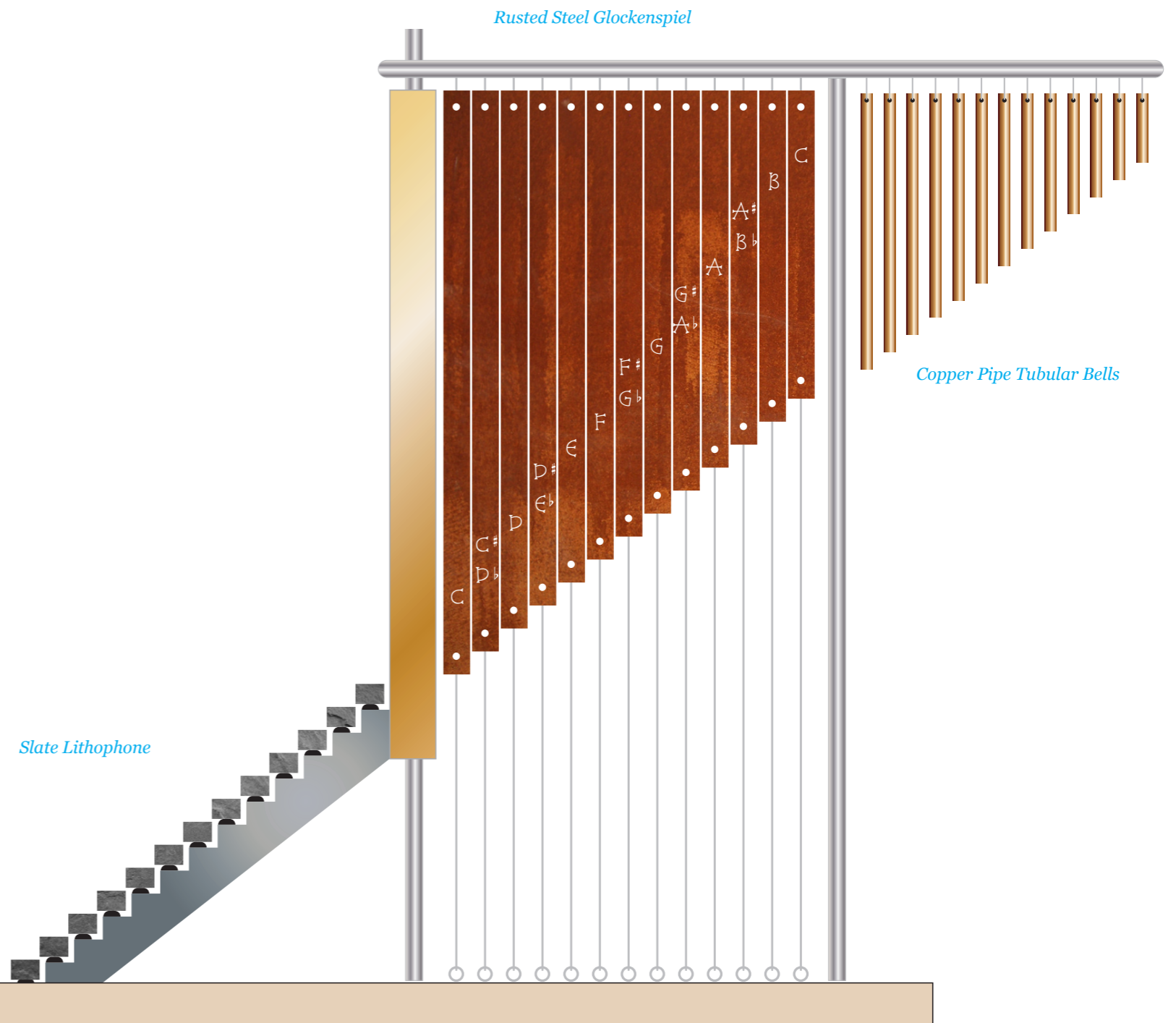
Slate Lithophone – the same as a xylophone but using stone instead of wood – consisting of different tuned lengths of slate with the notes letter-cut into each one.

Rusted Steel Glockenspiel made from different lengths of laser-cut Corten steel.

Copper Pipe Tubular Bells made from different lengths of standard 22mm plumbing pipe.



Examples of lithophones, xylophones, and glockenspiels made with found materials

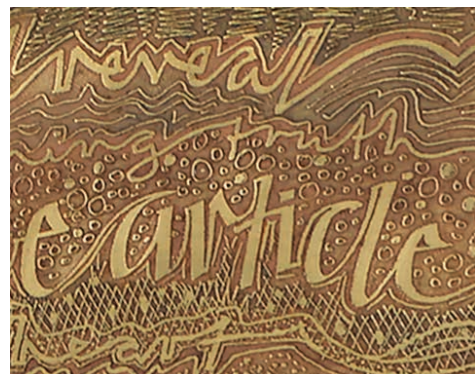
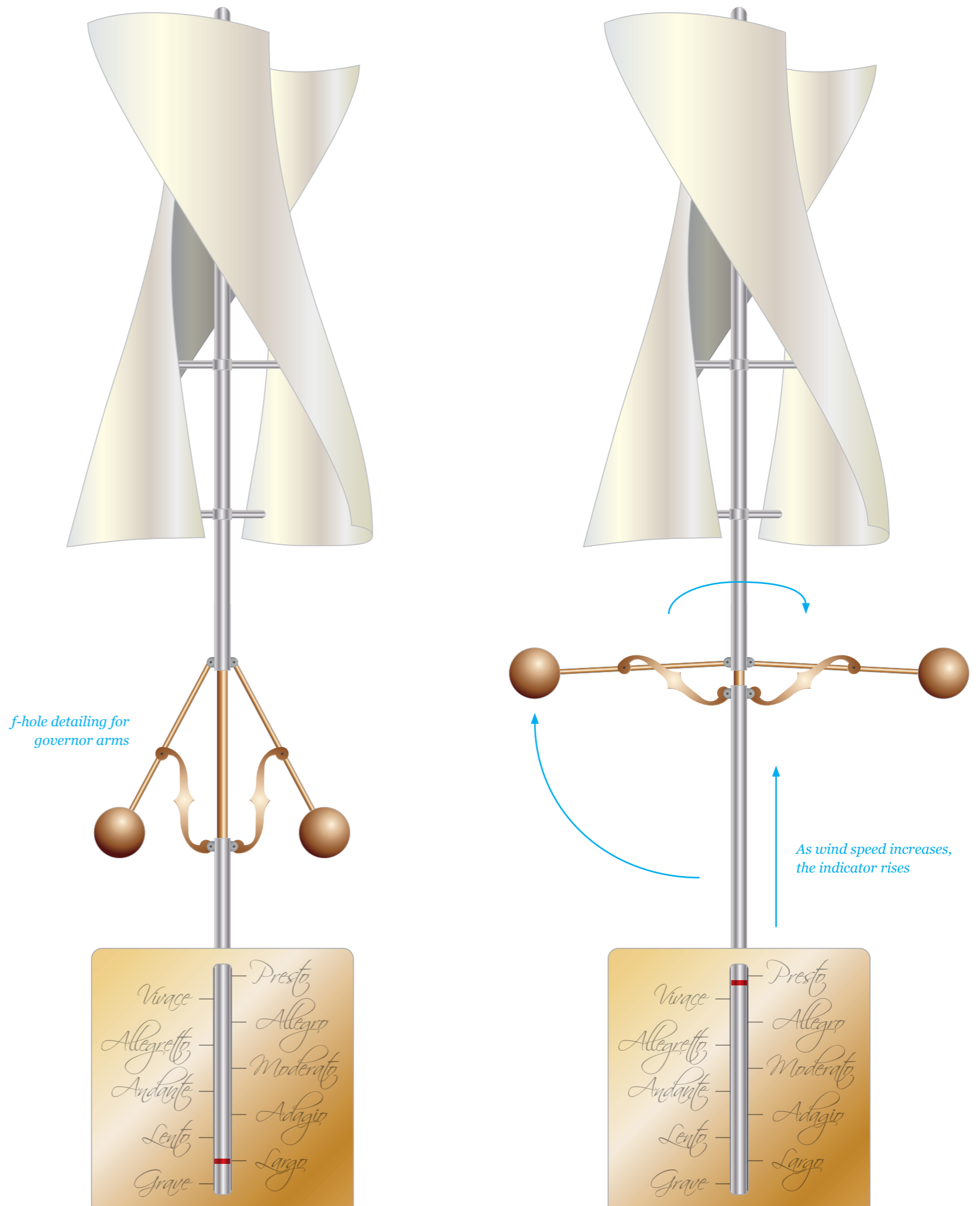


Wind Tempo Gauge

The **Wind Tempo Gauge** indicates the speed of the wind using musical terms from grave to presto. I've used ten terms to correspond to forces 1-10 on the Beaufort scale.

The wind turns a vertical turbine which is attached to a centrifugal governor similar to those found on steam engines. As the wind speed increases and the turbine rotates faster, the weights of the governor move out and up which in turn raises the indicator.

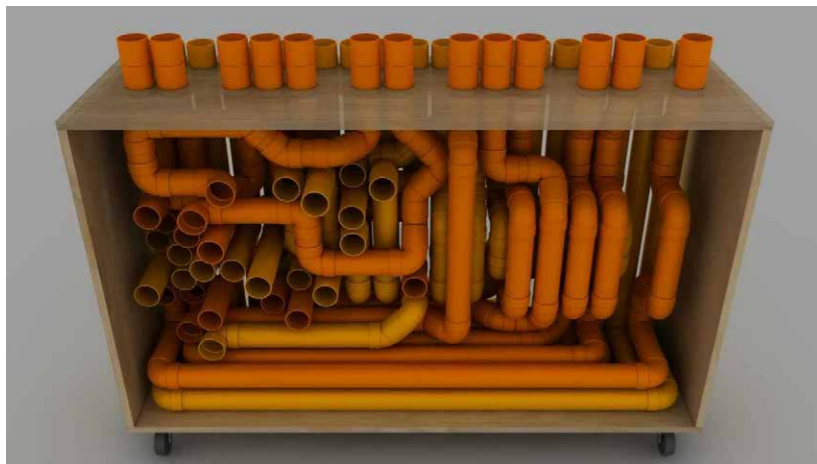
The indicator is viewed through a window in a brass plate with the tempo – in ascending order – etched into it.



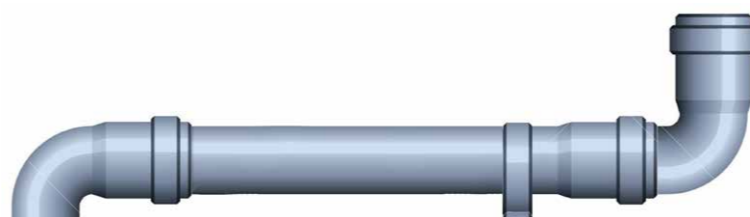
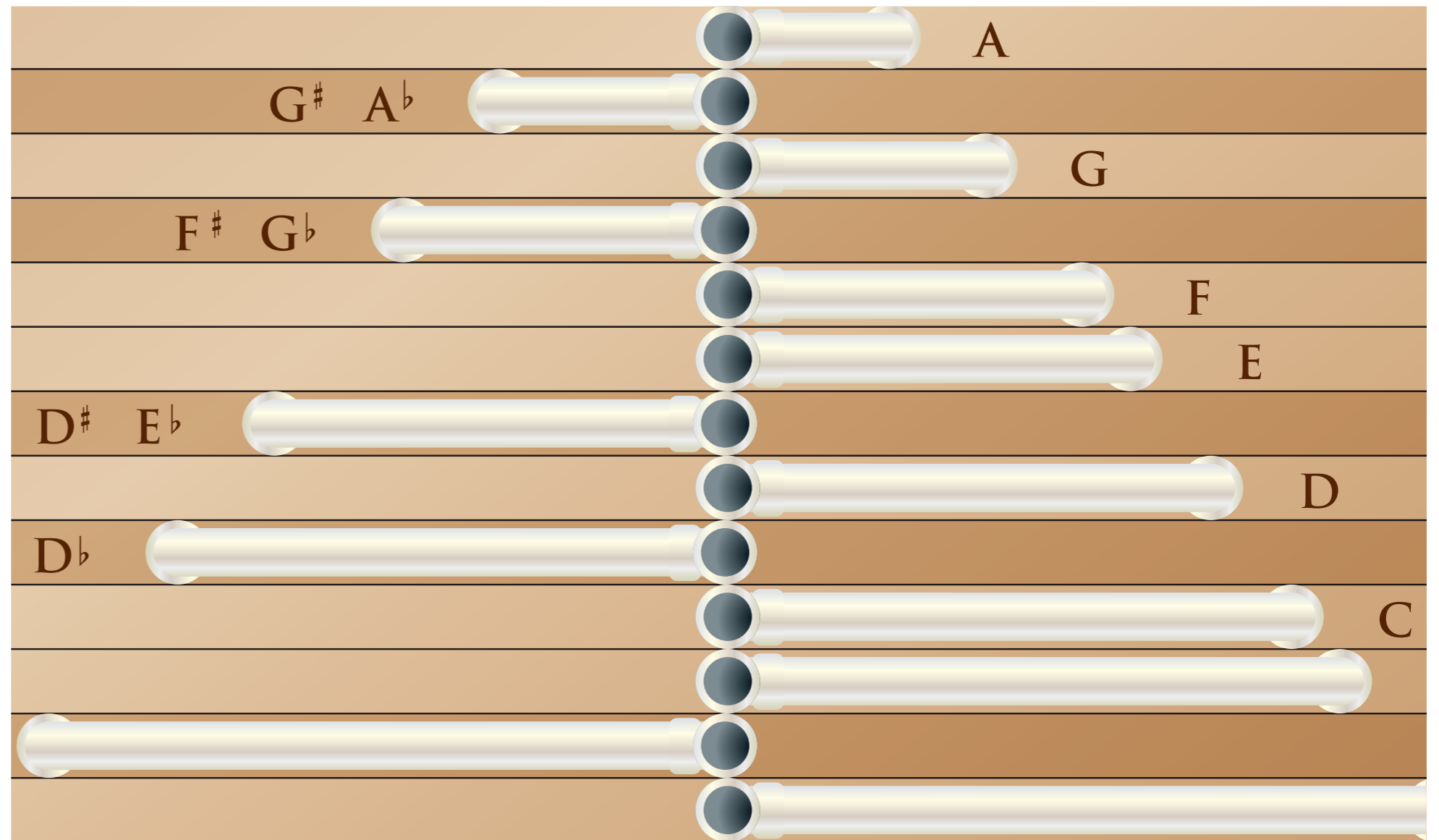
Example of etched brass lettering

Plastic Plumbing Pipe Organ

This sort of pipe organ/xylophone is made from domestic plastic plumbing pipe and uses standard fittings. It is played by slapping the open end of the pipe either with the flat of the hand or a paddle.



Examples of 'pipe organs'



Each note is made from two 90° bends and a length of straight pipe.

For deeper notes, it may be necessary to continue the length of the pipe inside the main structure.

Bar Chords

The **Bar Chords** are made from cycle handle bars mounted vertically, each fitted with three, tuned cycle bells.

For example D, F, A for the chord of D Minor.

For all of the notes, chords, scales and arpeggios featured on *Higher and Higher!*, I would like to collaborate with Aldborough Music to get their advice on the most appropriate ones to use. It would be great if we could link this to the music of Benjamin Britten especially *The Young Person's Guide to the Orchestra*.



Musical notation

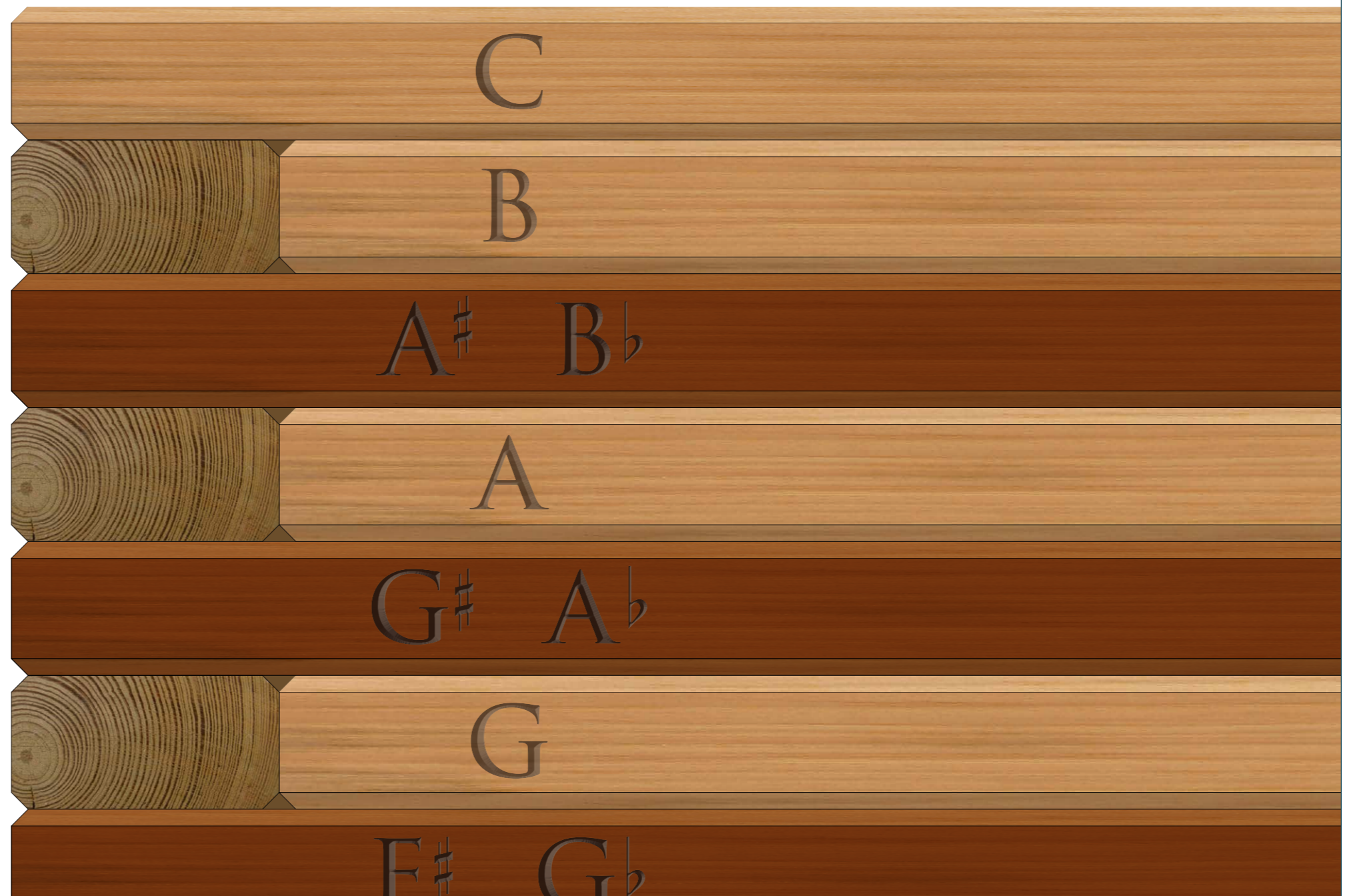
The main body of *Higher and Higher!* will be made of lengths of wood about 40mm deep. Each piece represents a semitone with the total height covering two octaves. As with piano keys, the sharps/flats will be stained darker than the other notes.

I would like to work with the lettering artists that exhibit at the Lettering Arts Centre in Snape Maltings to create hand-rendered lettering all over *Higher and Higher!*

Lettering can be incised into the wood and slate, laser-cut into the steel and etched into the brass.



Examples of hand-cut lettering in wood and slate exhibited at the Lettering Arts Centre



Technical notes

On size and capacity

The footprint of *Higher and Higher!* is the same size as a standard six-metre shipping container. The platform itself is at 2.2m, the highest point (the top of the Wind Tempo Gauge) is c.5.7m.

I estimate *Higher and Higher!* can comfortably accommodate 10-15 people with an estimated maximum of 20 people.

On movement and storage

Higher and Higher! will be designed so the Xylophone Steps, Percussion Tower, Wind Tempo Gauge, and the Teleaudios can be easily removed. These parts will be stored within the main structure accessed through a door behind the Xylophone Steps.

As *Higher and Higher!* is the same size as a six-metre shipping container, it can easily be transported on a medium-sized truck for example a Hiab truck with its built-in crane.

On accessibility and equality

Higher and Higher! is designed to enhance the auditory experience of a visit to Snape Maltings thereby benefiting visually impaired visitors in particular.

Ideally, to cater for physically disabled visitors, the Xylophone Steps would be a 'Glissando' Ramp to enable wheelchair access. However, I do not believe this could be done easily for a temporary/moveable structure. Maybe this is something to discuss with the structural engineer.

Regardless of that, wheelchair users can still access the lower Bar Chords and Plastic Plumbing Pipe Organ notes. If practical, we should consider mounting one of the Teleaudios on a post at ground level.

