DAiLY
TOUS LES JOURS

Musical Swings & Daydreamer:
Permanent Editions at the
North Carolina Museum of Art
Technical Specifications

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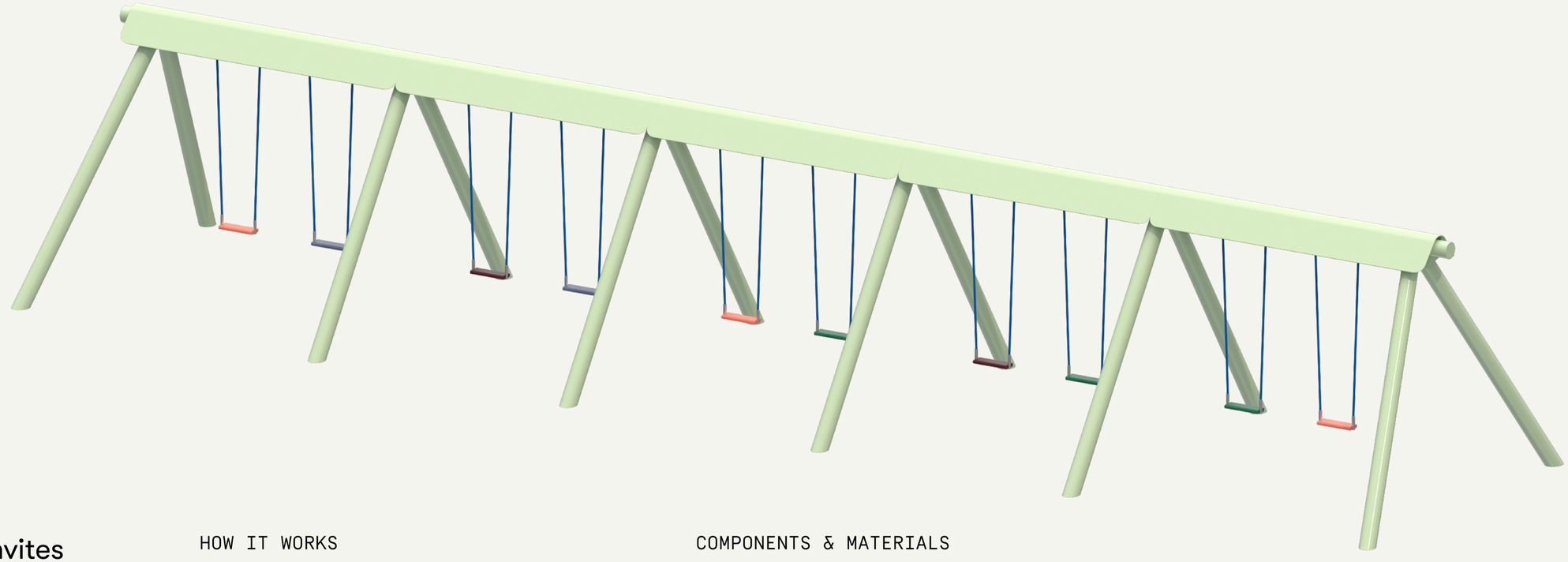
Musical Swings



Interactive swing set invites people of all ages together to play an ever-evolving soundtrack inspired by the pendulum.

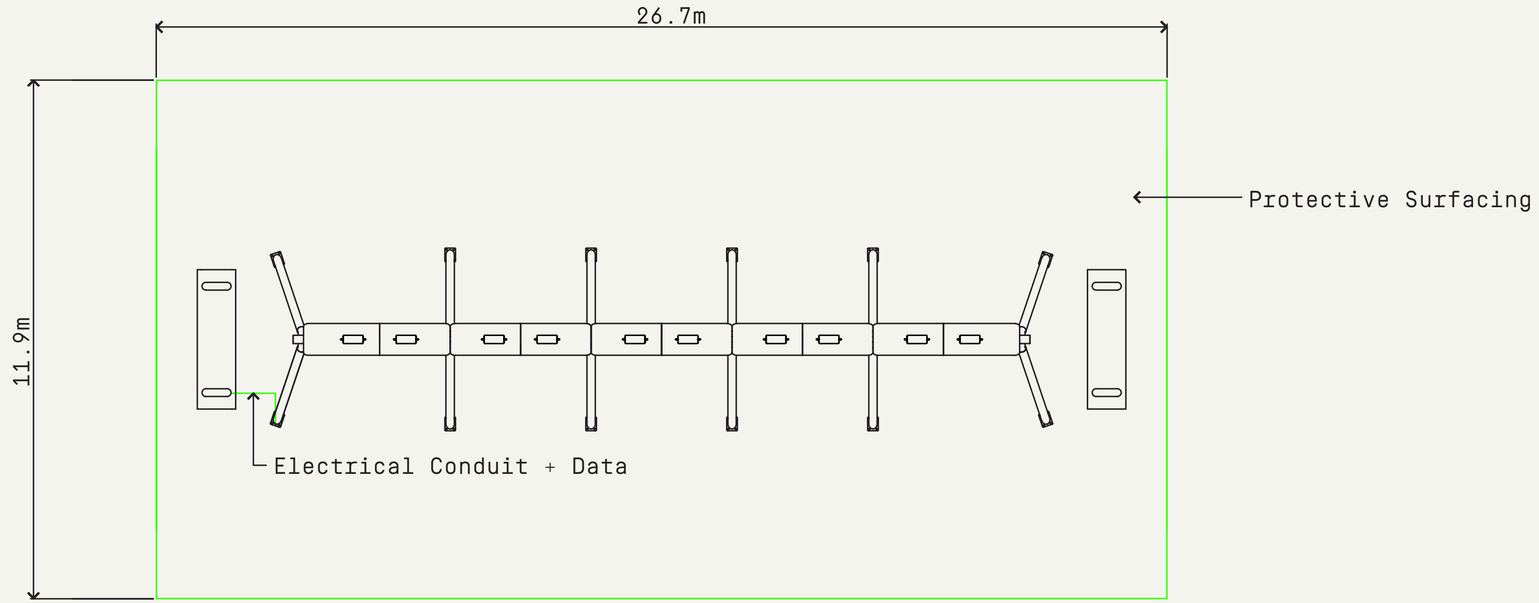
HOW IT WORKS

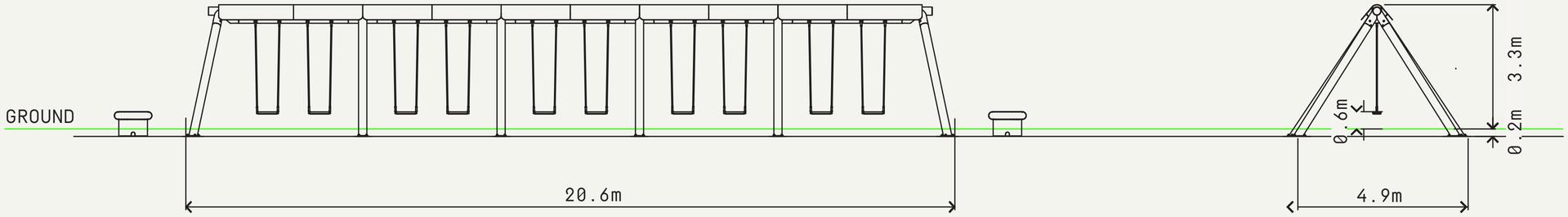
Each swing triggers notes from a classical instrument: piano, guitar, harp and vibraphone. The higher the swing, the higher the note. Synchronised motion between participants unlocks secret melodies.

COMPONENTS & MATERIALS

- Aluminum and steel structure, powder coated
- Aluminum and foam swing seats
- Sensing system and LED lights housed in swing seats
- Sound system housed in structure
- Computer with custom software and soundtrack, amplifiers, and other tech components housed indoors [close by] or in electrical cabinet

Musical Swings





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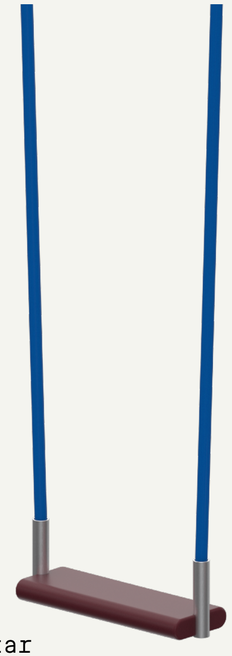
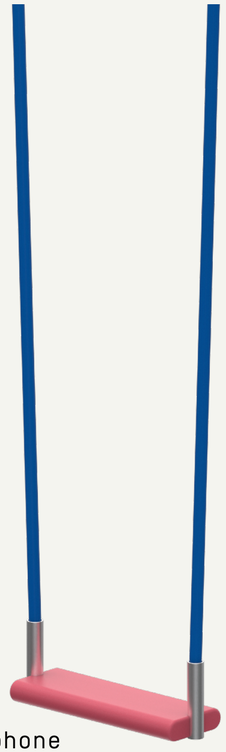
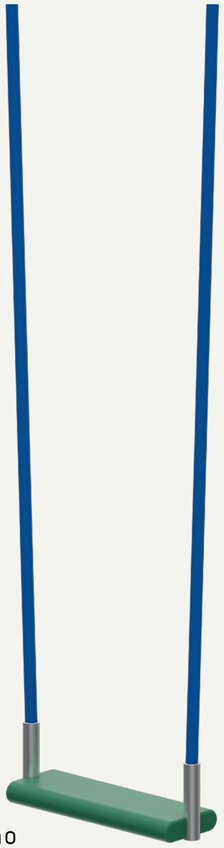


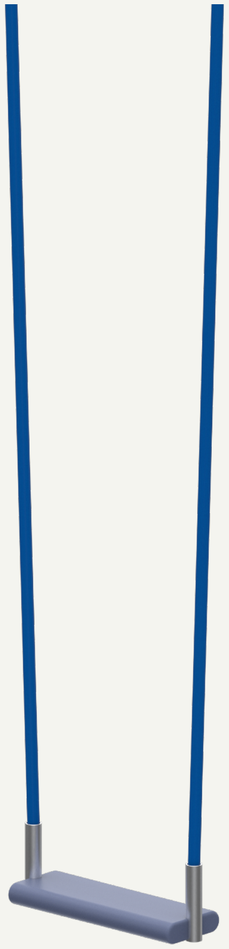
Guitar



Vibraphone



Piano



Harp

ELECTRICAL REQUIREMENTS

North America: 30A @ 120/240V [split phase] @ 60Hz: L1 + L2 + N + GND [PE]

/OR/

30A @ 120/208V [single phase derived from 3-phase source] @ 60 Hz: PA + PB + N + GND [PE] Europe/

International: 32A @ 220 or 230V, @ 50 or 60Hz: L + N + GND [PE]

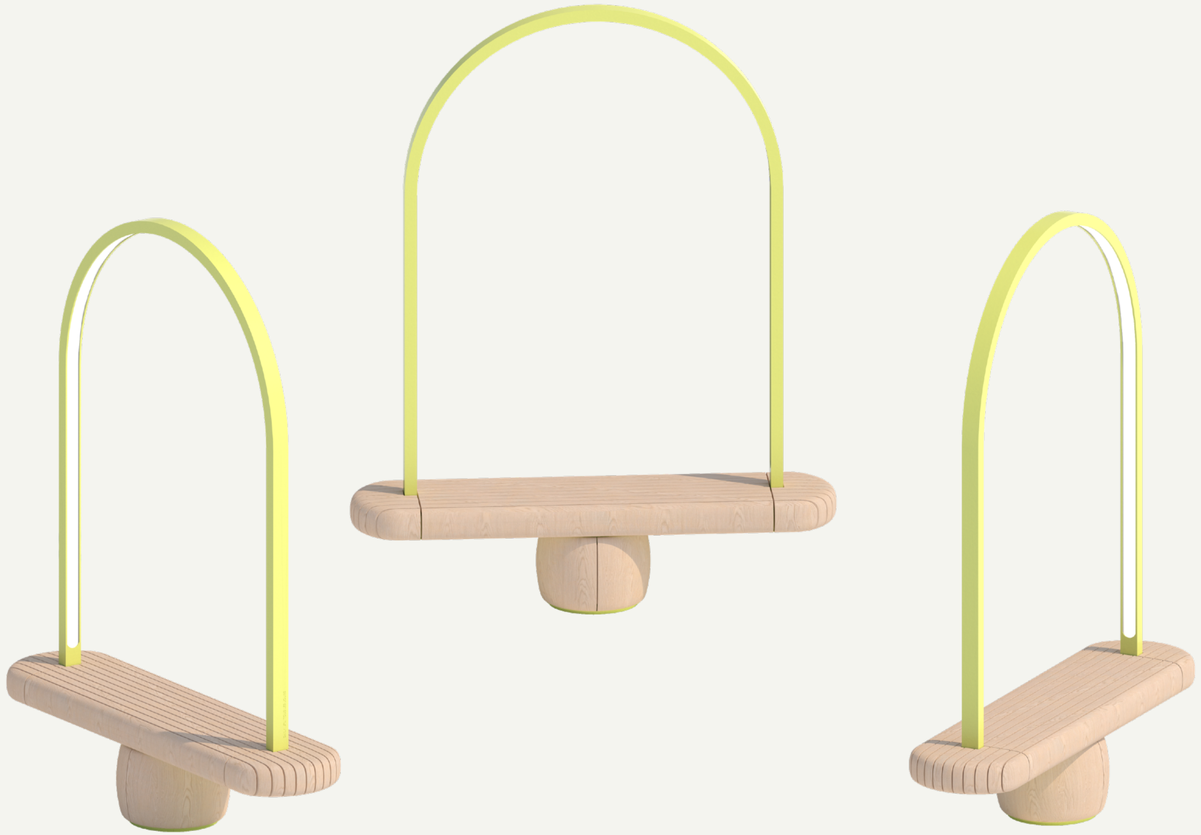
* A conduit carrying electrical and data cables runs underground from the control room into the leg of the structure

CERTIFICATION

- Structure:
  Certified by a licensed engineer according to Canadian [CSA Z614 -14], American [ASTM F1487], European [EN 1176 - 2], and Australian [AUS 4685.2 - 2014] playground equipment standards

- Electronic Components:
  International electronic equipment standards [CSA, CE on request]

Daydreamer



Sculptural series of interactive, slowly rocking benches that compose gentle music and encourage synced-up choreographies.

HOW IT WORKS

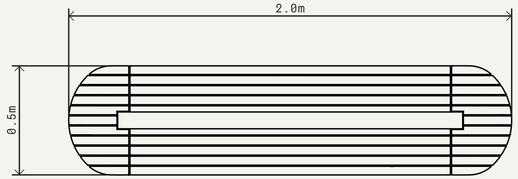
When people rock or spin the benches, music and light animations are triggered through motion detection, merging analog and digital movements.

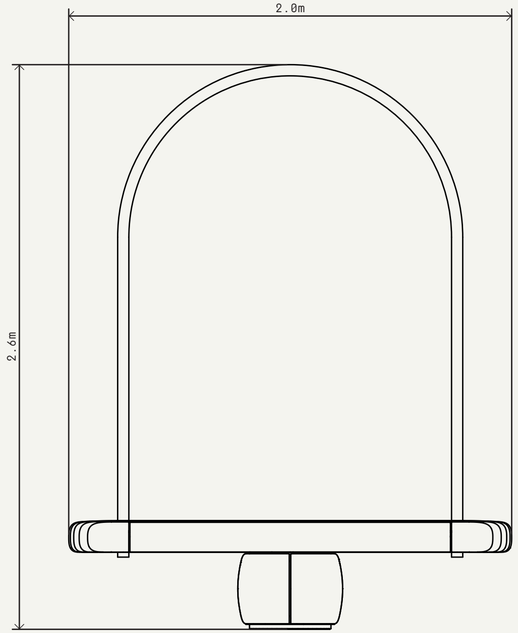
The benches rock in four quarters, or rotate 360° with a bit more push from the user. The mechanism inside the benches' pivot centre ensures the motion is slow.

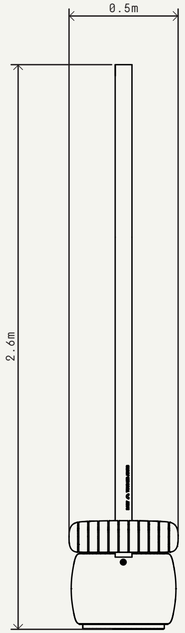
COMPONENTS & MATERIALS

- Steel bench structure finished in Canadian white oak with a powder-coated aluminum arch
- Sound and sensing system housed in bench structure
- Interactive LED lights housed in arch and under seat
- Custom pivot mechanism ensures slow movement
- Computer with custom software and soundtrack, amplifiers, and other tech components housed indoors [close by] or in electrical cabinet

Daydreamer







ELECTRICAL REQUIREMENTS

In control space:
- 15A @120VAC for the control space equipment
- Additional ~15-30A for environmental control of control space [TBD]

At the base of each bench:
- 5A @120VAC for each bench, with individual breaker accessible in control space .

General Technical Considerations

SURFACING

Protective surfacing such as mulch, wood chips or engineered wood fibres, sand, cork, pour-in-place rubber, pea gravel, is required for both artworks.

NETWORK

Hardwired high-speed internet connection.

Download speed: 10 mbps
Upload speed: 3 mbps, no firewall

If no local internet infrastructure is available, a modem can be installed directly in the structure's console by an approved local internet provider.

Remote access configuration [ex. Team Viewer] is set up for software updates and data collection.

WEATHERPROOFING

Sensitive electronics are enclosed in a temperature-controlled box.

Specific recommendations will be made for extreme and unexpected weather conditions.

WARRANTY

Overall: 1 year

Musical Swings Structure: 5 years covering manufacturing defects

REMOTE MONITORING

A remote monitoring interface is provided for each artwork, featuring average daily usage, peak days, hours, etc.

It can be used to program opening hours and volume controls on an hourly basis.

The monitoring interface also serves as a detailed overview of the installation's log for maintenance purposes.

Field reports on the impact and usage of the Musical Swings can also be produced.