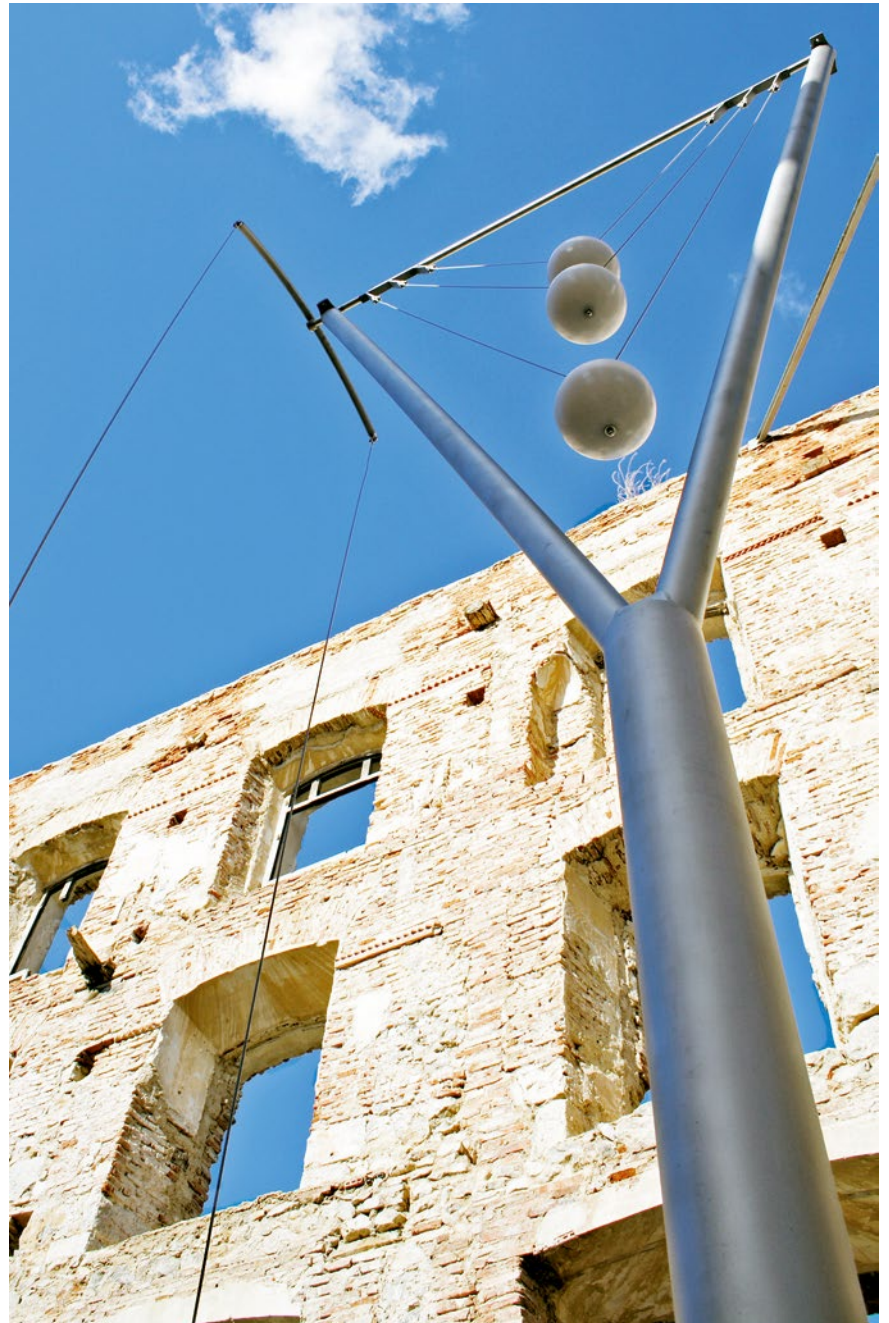


Play value

Three pendulums with spherical weights are suspended from a common axis high above the heads of the observers. The axis can be set in motion at any velocity by a rope according to the belfry principle. The correct rhythm for pulling the string and controlling the turning velocity of the axis making the spheres swing one after the other, can be found by careful trial and error. The length of the pendulum arms determines the amount of vibration and has been designed in a way that the result is a harmonic, integral relationship between the vibrations. In the same way that the tones of 3 different bells ringing together results in an accord the spheres also meet repeatedly for a short moment in a vibrational pattern. This moment is especially fascinating for the observer.

Recommended for

- School children
- Young people
- Adults
- Older people
- Public play areas without supervision, such as playgrounds, parks or similar



Vandalism	not vulnerable
Supervision	not necessary
Explanation Board	included
Installation	outdoors
Safety check (DIN EN 1176)	has been completed
Installation in concrete	possible

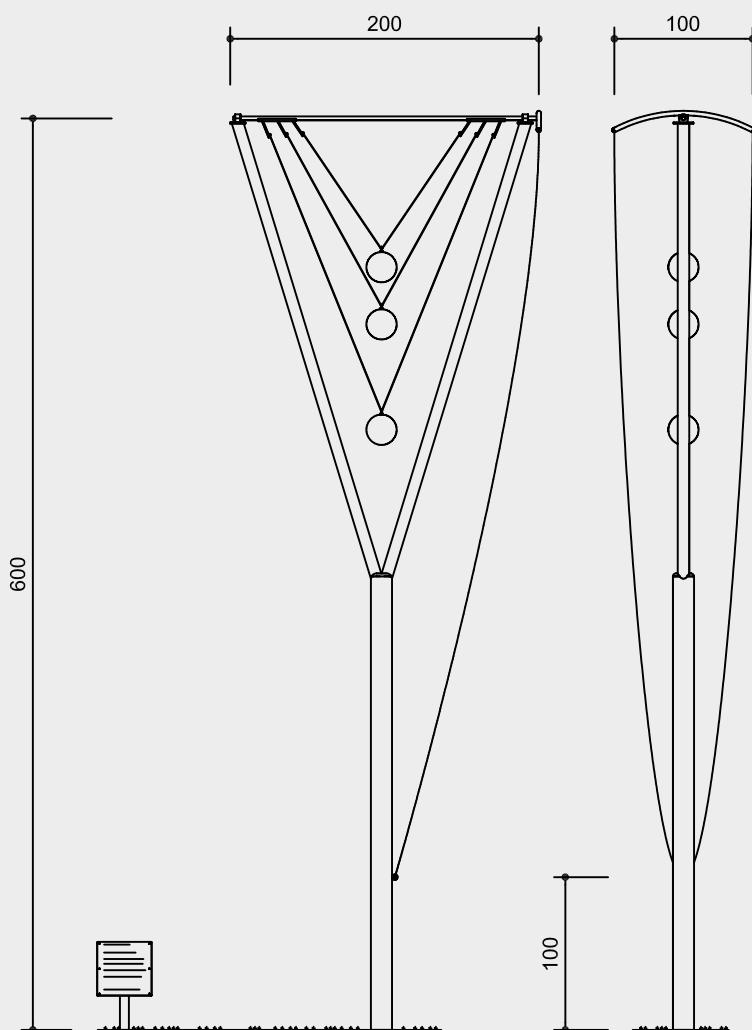
Three-Frequency Pendulum *graubner* Play Stations for Developing the Senses



10.12100

Order No. 10.12100
Three-Frequency Pendulum

Safety distance →
 Device dimensions —●—
 Functional distance —|—



Scale 1:100

Safety check according to DIN EN 1176

Components

- 1 Complete piece of equipment with foundation anchor
- 1 Explanation Board with support for dowelling and 4 heavy duty anchors

Trademark

30 2005 500 000 Germany
 40-0682207 South Korea

Installation information

Recommended space with functional distance
 5.00 x 3.00 m

Foundations
 1 item 130 x 130 x 70 cm reinforced
 Blinding layer
 1 item 130 x 130 x 5 cm
 Total excavation depth 115 cm

Explanation Board

1 item 40 x 40 x 40 cm
 Excavation depth 60 cm

Attention:

Exact measurements may vary, for all installation dimensions refer to current installation instructions.

Technical changes reserved.

Technical information

Frame made of stainless steel

Sintered bush

For all reciprocating movements we use sintered plain bearings which are self-lubricating in use and can easily be exchanged if necessary



Ground anchor

All parts used for anchoring to the ground are made of hot-dip galvanised steel or stainless steel



Roller bearings

High-quality roller bearings made of chrome steel or stainless steel for rotating elements, easy to maintain and exchange, sealed



For more detailed explanation of the quality characteristics see price list.

Surface blasted with glass beads

Three heavy plastic spheres, suspended separately on stainless steel cable, to be set in motion by a bow with rope

Support for Explanation Board made of stainless steel

Dimensions

(small deviations possible)

Height	6.00 m
Width	2.00 m
Depth including bow with rope	1.00 m
Weight	200 kg



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