

Jednostka projektowania :

„Ha-art”
Studio Architektury Krajobrazu
Małgorzaty Haas-Nogal
ul. Władysława Jagiełły 9a/2
70 -260 Szczecin

tom :

temat / obiekt / część :

**PROJEKT ZMIANY URZĄDZEŃ ZABAWOWYCH
NA PLACU ZABAW II – MIEJSCA EDUKACJI EKOLOGICZNEJ
NA TERENIE PARKU ZDROJOWEGO
W ŚWINOUJŚCIU**

adres :

Świnoujście: ul. Mieszka I dz.145

inwestor / adres :

Gmina Miasto Świnoujście
ul. Wojska polskiego 1/5
72-600 Świnoujście

Oświadczenie: Nizej podpisani potwierdzają, że projekt został sporządzony zgodnie z obowiązującymi przepisami oraz zasadami wiedzy technicznej.

branża :	projektant:	tom / teczka :
Mała architektura zieleni	mgr inż arch. krajobrazu Małgorzata Haas-Nogal	I

SZCZECIN 2008

Zawartość opracowania

Część opisowa - opis techniczny

1. Podstawa opracowania.
2. Przedmiot opracowania.
3. Projektowane urządzenia zabawowe
 - 3.1 Zestaw sprawnościowy 1
 - 3.2 Zestaw sprawnościowy 2
 - 3.3 Zestaw sprawnościowy 3
 - 3.4 Karuzela
 - 3.5 Zjeżdżalnia
 - 3.6 Zestaw
 - 3.7 Huśtawka
 - 3.8 Platformy
4. Uwagi

Część rysunkowa

1. Projekt zagospodarowania – zmiana urządzeń zabawowych1: 250
2. Projekt zagospodarowania - poprzedni
 - Zestaw sprawnościowy 1
 - Zestaw sprawnościowy 2
 - Zestaw sprawnościowy 3
 - Karuzela 4
 - Zjeżdżalnia 5
 - Zestaw 6
 - Huśtawka 7
 - Platformy 8

1. Podstawa opracowania

- Umowa nr WIM /258/2008 z dnia 27.10 2008r.

2. Przedmiot opracowania

Celem opracowania jest zmiana urządzeń zabawowych na placu zabaw dla dzieci nr 2, położonego przy ul. Mieszka I .
Poprzedni projekt placu zabaw powstał w ramach dokumentacji „Rewaloryzacja Parku Zdrojowego w Świnoujściu” w 2001r.

3. Projektowane urządzenia zabawowe

Zmianie podlegają wyłącznie urządzenia zabawowe. Układ przestrzenny i komunikacyjny placu pozostaje bez zmian.

Zaprojektowano ustawienie następujących urządzeń zabawowych wybranych z oferty firmy „Richter Spilgeräte” lub równoważne.

3.1. Zestaw sprawnościowy 1

E 6.50000

3.2. Zestaw sprawnościowy 2

E 7.73000

3.3. Zestaw sprawnościowy 3

8.81500 – 3 szt.

3.69830 – 2 szt.

3.69820

3.69800

3.69840

3.69822 – 4 szt

3.4. Karuzela

6.26502

3.5. Zjeżdżalnia

8.83300

3.6. Zestaw

5.06200

3.7. Huśtawka

L6.14520

3.8. Platformy

6.06000 – 6 szt.

Lp.	Nazwa materiału	Powierzchnia m ²
2	Nawierzchnia piaskowa gruboziarnista	1 500 m ²
3	Nawierzchnia z kostki drewnianej	310 m ²

4. Uwagi

- Wszystkie wymiary powinny być weryfikowane na budowie.
- W trakcie realizacji obiektu należy stosować materiały i wyroby posiadające obowiązujące świadectwo dopuszczalności do stosowania w budownictwie, lub, jeśli są przedmiotem norm państwowych, zaświadczenie producenta potwierdzające ich zgodność z postanowieniami odpowiednich norm.

PRZEPISY I NORMY.

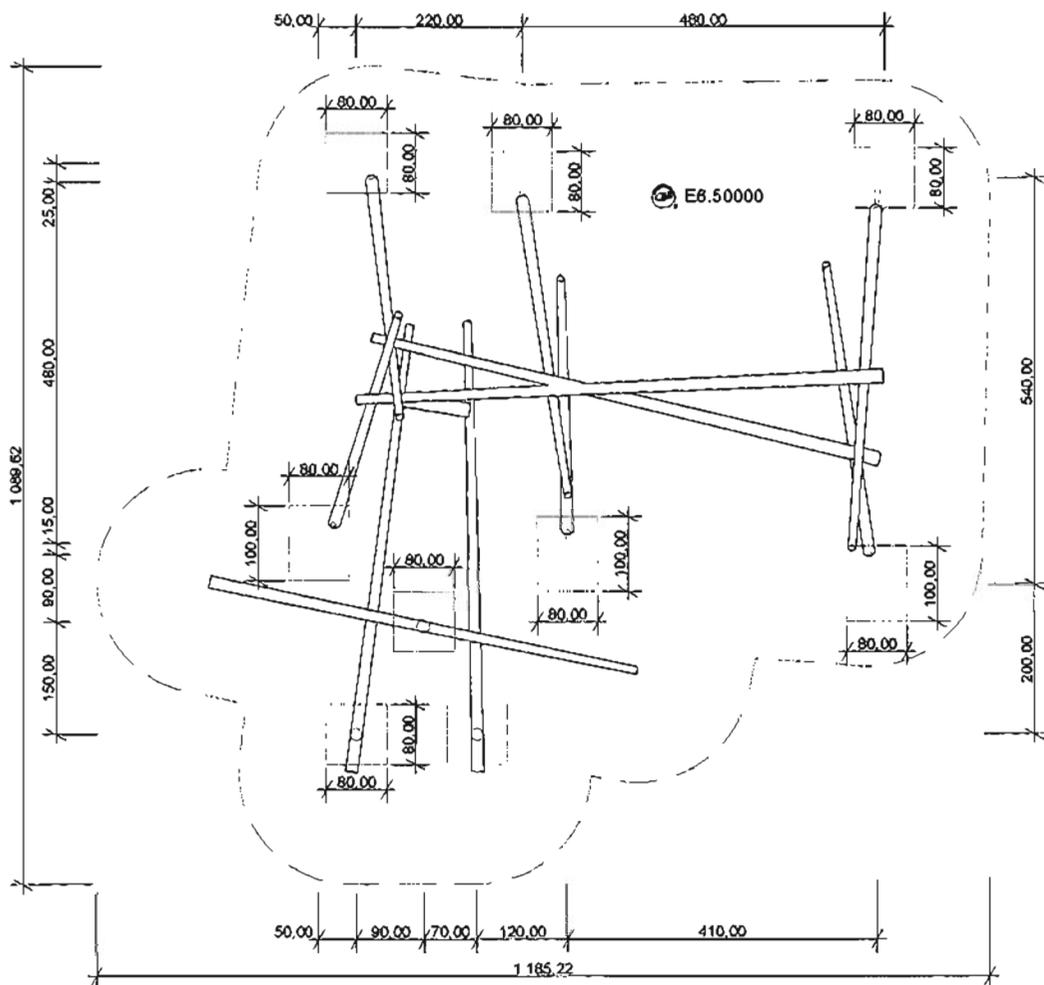
- Wszystkie prace należy wykonać zgodnie z zasadami i instrukcjami.
- Roboty należy wykonywać zgodnie z przepisami administracyjnymi, w szczególności:

Ochrona Środowiska :P.I.O.S.

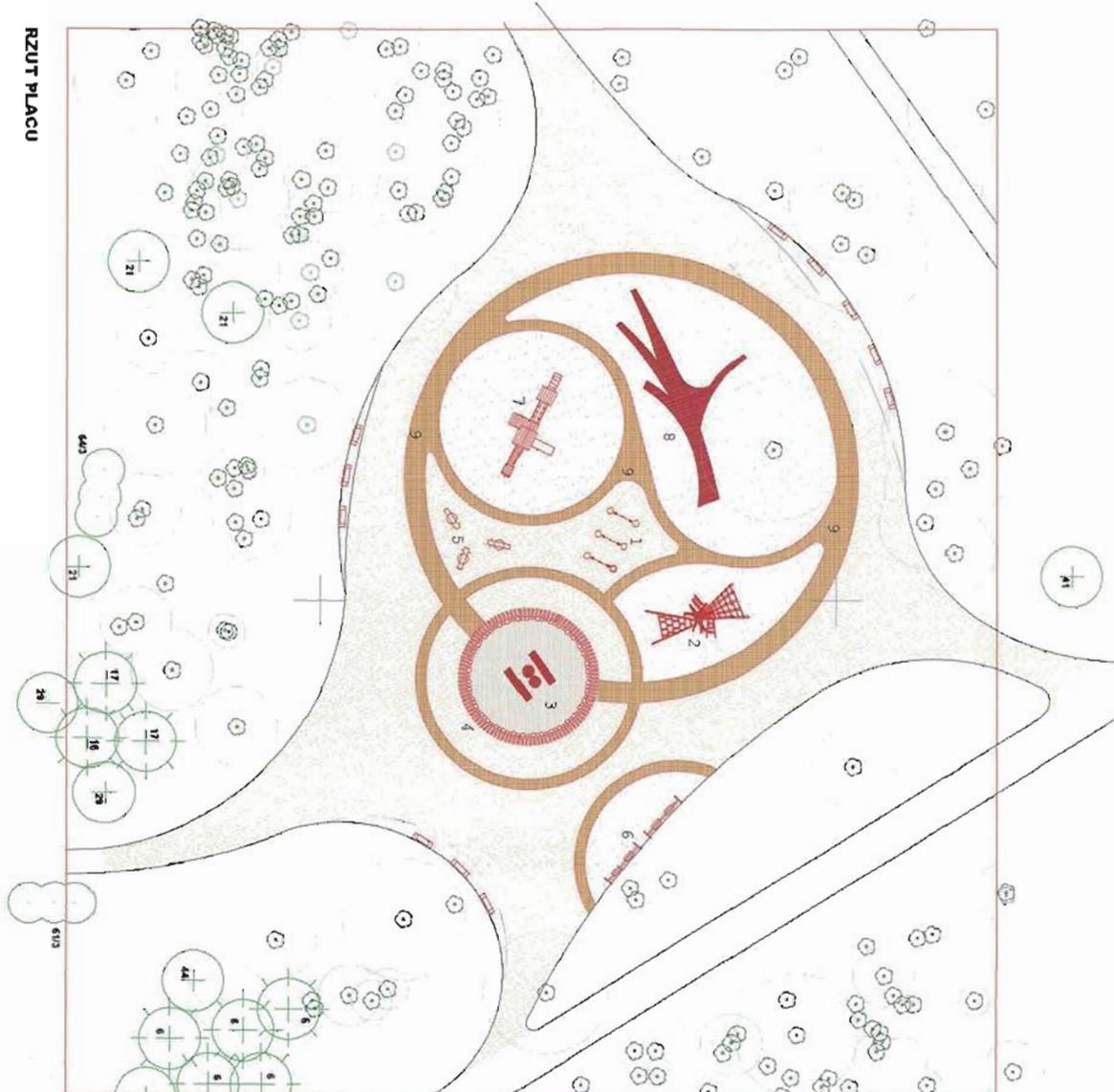
Przepisy bezpieczeństwa pracy :B.H.P

Prawo o ruchu drogowym :KODEKS DROGOWY

ZESTAW SPRAWNOŚCIOWY 1



RZUT PLAGU
PROJEKTOWANA ZIELEN 1:250

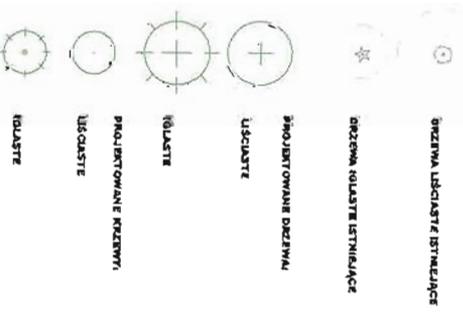


- NAMIESZCZENIE:**
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URZADZENIA:

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2. Piekarnia
3. Siatka
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21. Siatka

LANIWA



WYKAZ PROJEKTOWANYCH ROŚLIN:

- Drzewa liściaste
4. Prunus montana - 5 szt.
 16. Thuja occidentalis "Smaragd" - 2 szt.
 17. Thuja plicata - 2 szt.
- Drzewa liściaste
21. Abutilon striatum - 3 szt.
 22. Prunus serotina "Pendula" - 2 szt.
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PKZ Projekt i Architektura

ul. ...

14-100 ...

1250

1/15

DRZEWY LIŚCIASTE ISTNIEJĄCE

DRZEWY IGLASTE ISTNIEJĄCE

PROJEKTOWANE DRZEWY:

LIŚCIASTE

IGLASTE

PROJEKTOWANE KRZEWY

LIŚCIASTE

IGLASTE

PROJEKTOWANE URZĄDZENIA:

1. Zestaw sprawnościowy
2. Zestaw sprawnościowy
3. Zestaw sprawnościowy
4. Karuzela
5. Zjeżdżalnia
6. Zestaw
7. Huśtawka
8. Platformy

PROJEKTOWANE
OŚWIETLENIE

LAWKA



obiekt	REWALORYZACJA ZABYTKOWEGO PARKU ZDROWEGO W ŚWINKOWIE	nr. rys.	1
tytuł	PLAC ZABAW DZIECI II PROJEKT ZAGOSPODAROWANIA ZMIANA URZĄDZEŃ ZABAWOWYCH	skala:	1:250
projektant	mjr. inż. arch. kraj. obr. M. Hase-Nogal	data:	11.2008

Play value

The Timberwood Tangle is a construction of long trunks standing around as if collected by chance. The trunks lie, hang or stand more or less even on the play area, they have interconnections and create a dynamic structuring of the area. Depending on their self-confidence and on their degree of self-perception, the climbers can climb up high or stay near the ground. Different offers for play and movement deepen the attraction of the installation. The Timberwood Tangle promotes physical skill, perception of body and space. It strengthens the self-confidence of children who take and master the challenge according to their feeling. The size of the Timberwood Tangle can be designed variably according to the number of children playing on it.

Fundamental characteristics

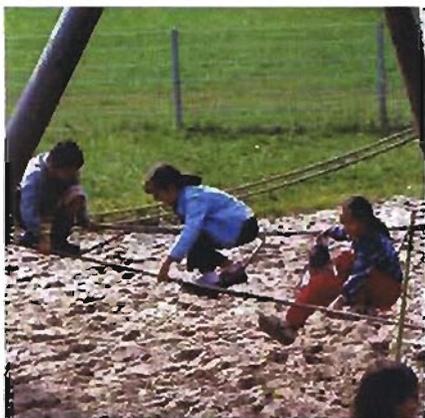
- unique and original
- natural, strong posts
- no predetermined use, individual mastering and use
- incentive for playing: strong, challenging construction
- movement: climbing, balancing, doing exercise, crawling

Suitable

- for children from 6 years and teenagers
- for schools
- youth institutions
- sports grounds
- leisure areas
- parks
- tourist centres



Timberwood Tangle

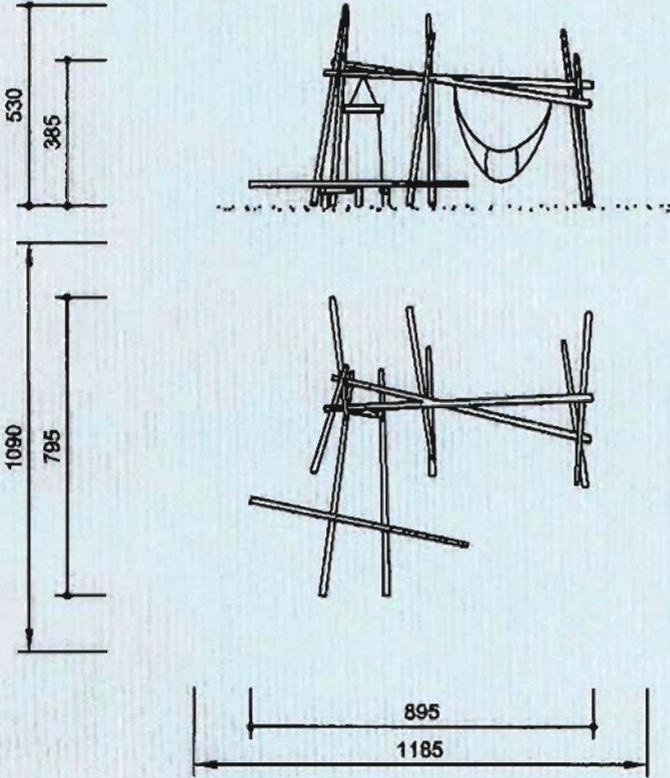
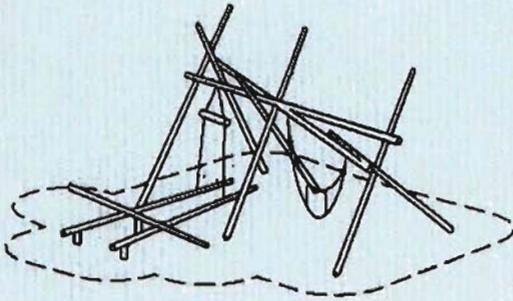


13.0491620
13.001702



6.50000 - 6.50030

Timberwood Tangle
Order no. 6.50000
Type 1



scale 1:200

Safety check according to DIN EN 1176/1177 and „safety in another way“

Components

- 3 pre-fabricated support frames with steel feet
- 5 posts
- 3 support posts for swinging beams
- 1 suspended rope construction
- 1 monkey swing

Installation information

Surfacing requirements corresponding to a fall height of 3,00 m (please refer to Introduction for more detailed information)

Foundations
 6 items 80 x 80 x 80 cm
 3 items 80 x 100 x 80 cm

Note
 Timberwood Tangles are individual play structures which are only partly pre-assembled in our workshop. Therefore, the installation needs to be carried out by an installation company authorised by us. Technical changes reserved.

Materials for all types

de-barked posts
 de-barked posts, Ø 16 - 18 cm, of mountain larch, selected according to eight quality criteria;



angle cut
 vertical support posts with angle cut in the end grain section as constructive wood preservation;



Corocord® rope
 special ropes of „Hercules“ type six-strand Corocord® rope of the special „Hercules“ type, abrasion protected



aluminium swages
 double-conical aluminium swages with rounded-off ends;



S-clamps
 neatly rounded Corocord®S clamps made of stainless steel, Ø 8 mm;



swing joint
 drop-forged swing joint with bush with graphite sleeve for self-lubrication and integrated swivel;



concealed head
 large surface for pressure distribution, prevents water from getting inside, protects the bolt head, easy procurement of spare parts by company trademark indelibly inscribed on the equipment;



adjustable bolts
 no projecting threads after re-tightening due to two-piece bolt connection;



ground anchor
 steel feet hot-dip galvanised;



distance fitting
 to avoid entrapment of chords;



in addition at Type 2 and 3
pendulum seat
 with large rubber surface, with a soft, protecting edge and steel insert;



Dimensions
 (small deviations possible)

Order no. 6.50000
Type 1

total height 5,30 m
 length 8,95 m
 width 7,95 m

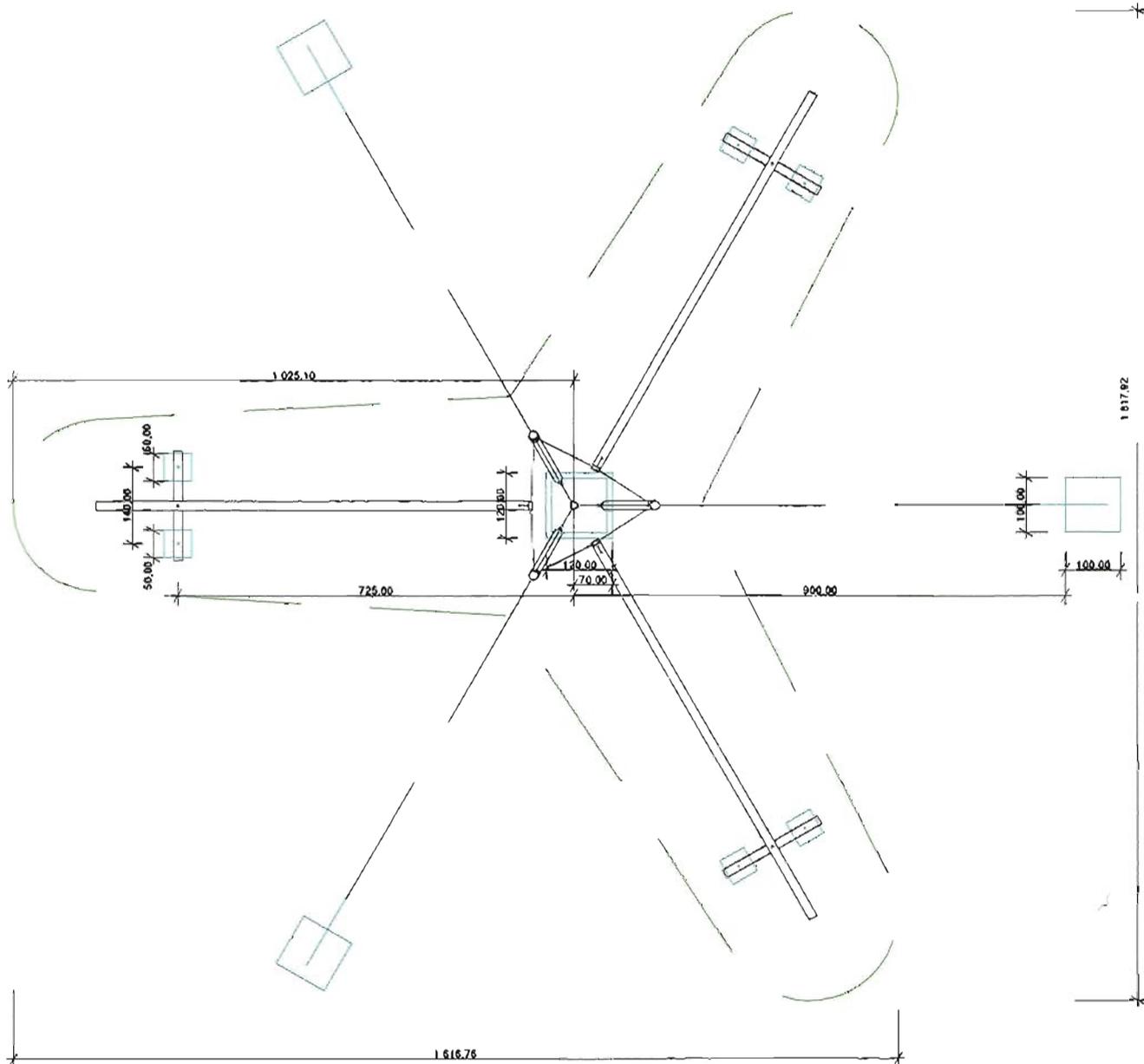
required space 10,90 x 11,85 m

For more detailed explanation of the quality characteristics see introduction



6.50000 - 6.50030

ZESTAW SPRAWNOŚCIOWY 2



TRIPLE BEAM SWING
 7.730.000

Play value

The inclined masts mounted on moving joints are connected to each other at the top ropes and are balanced by long tensioners. The horizontal sway beams are each suspended centrally from the connection ropes of the masts in such a way that they affect each other's movement. The size of the equipment generates broad, smooth movements. Many people can swing, sway, hang or dare each other to upset the balance of the other.



Fundamental characteristics

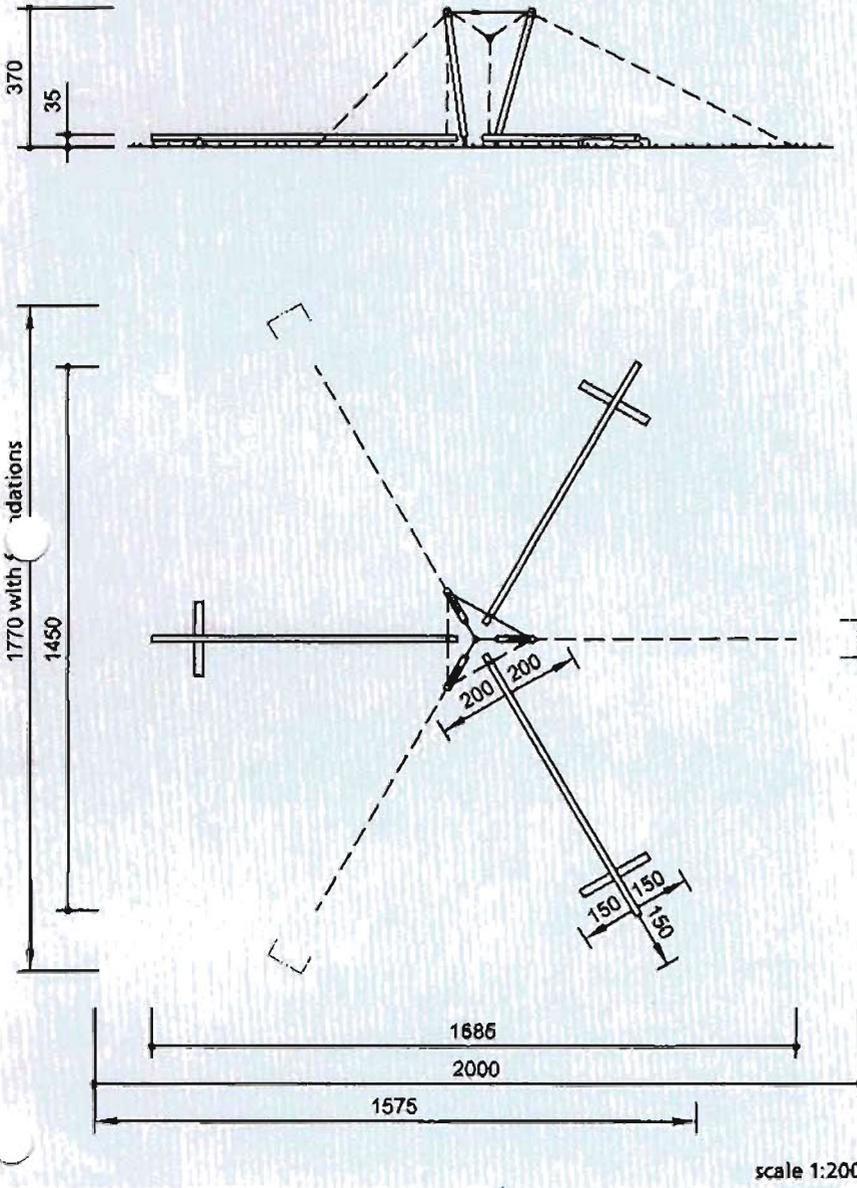
- unique and original
- can be used by many children at the same time
- incentive for playing: attractive eye-catcher
- movement: swinging, swaying, balancing

Triple Beam Swing

Suitable

- for children from 6 years and young people
- for public playgrounds
- school playgrounds
- leisure areas
- parks
- excursion areas





Safety check according to EN 1176/1177

Components

- 3 swinging beams, 8 m long
- 3 inclined poles including all necessary ropes and joints
- 3 bearings for swinging beams
- 1 foundation frame

Installation information

Surfacing requirements
 corresponding to a fall height of 1,00 m
 (please refer to introduction for more detailed information)

- Foundations**
- 6 items 50 x 50 x 50 cm
 - 3 items 100 x 100 x 110 cm
 - 1 item 120 x 120 x 50 cm

Attention:
 Exact measurements may vary, for all installation dimensions refer to current installation instructions.
 Technical changes reserved.

Materials

de-barked posts

de-barked posts, Ø 18 - 21 cm, of spruce/fir, boiler pressure impregnated according to DIN 68800, hazards class 4;



Corocord® rope

special ropes of „Hercules“ type all ropes of 19 mm six-strand Corocord® rope of the special „Hercules“ type, abrasion protected through heating of the six steel strands and melting the polyamide sleeve onto them; guy ropes with turnbuckles;



aluminium swages

double-conical aluminium swages with rounded-off ends;



universal joint

drop-forged joint yoke; the universal joint insert consists of two swing bearings;



rope connection with joint

close fitting connection without dangerous openings; the bearing consists of one brass bush;



double rope connection

the double rope connection is an effective and durable construction for complicated swing and swivel motion;



concealed head

large surface for pressure distribution, prevents water from getting inside, protects the bolt head, easy procurement of spare parts by company trademark indelibly inscribed on the equipment;



adjustable bolts

no projecting threads after re-tightening due to two-piece bolt connection;



ground anchor

steel feet of carrying beams hot-dip galvanised;



all fittings hot-dip galvanised;

base plate with 3 welded on ball bearings for the support posts, hot-dip galvanised, anchorage with foundation frame;

Dimensions

(small deviations possible)

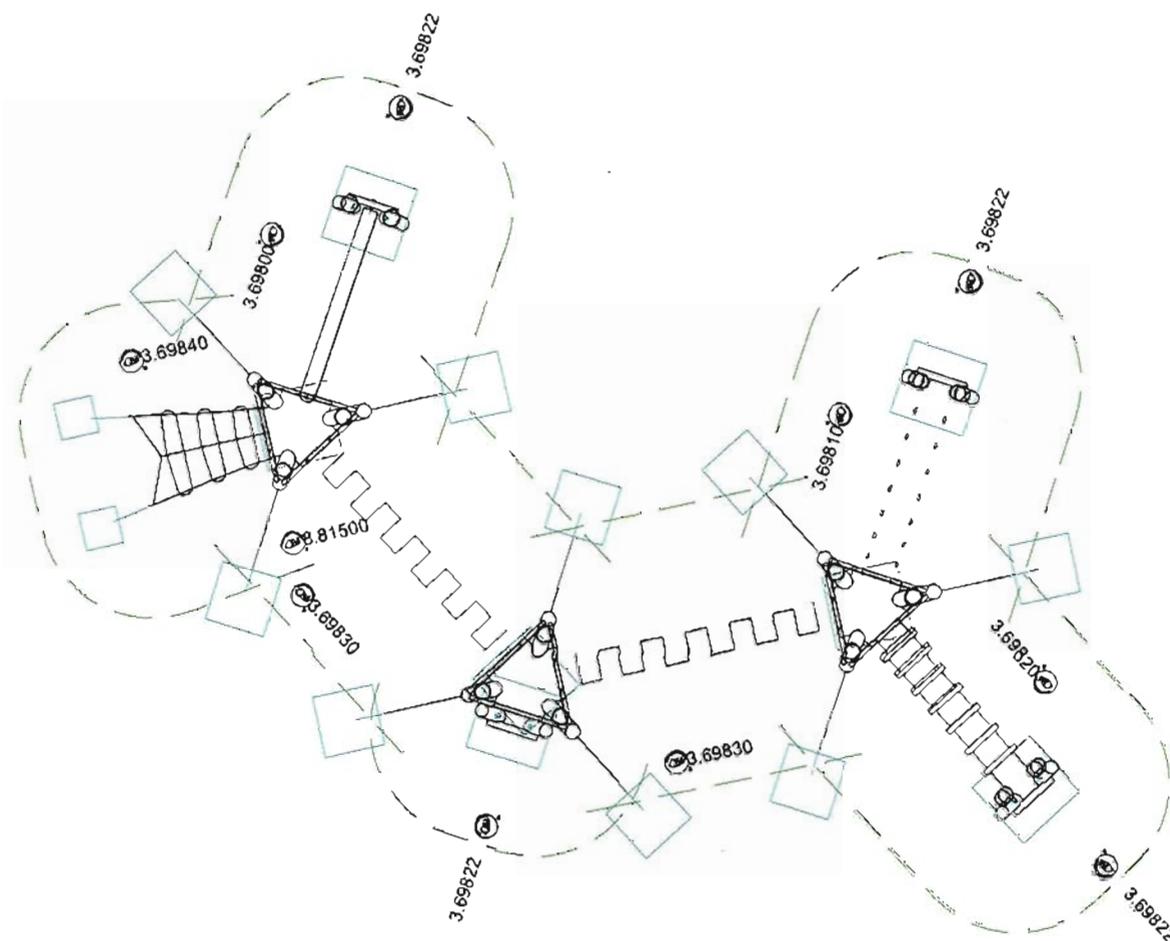
- swinging beam, length 8,00 m
- poles, height 3,70 m
- weight approx. 1100 kg



7.73000

For more detailed explanation of the quality characteristics see introduction

ZESTAW SPRAWNOŚCIOWY 3



22.172.ELKO
23.157.60 PL

Play value

The Wobbly Platform is an interesting combination element for play centres. Its unusual shape and the inclined support posts contribute to the outstanding appearance. As soon as a participant steps on the platform, he gets surprised by a gentle movement.

Fundamental characteristics

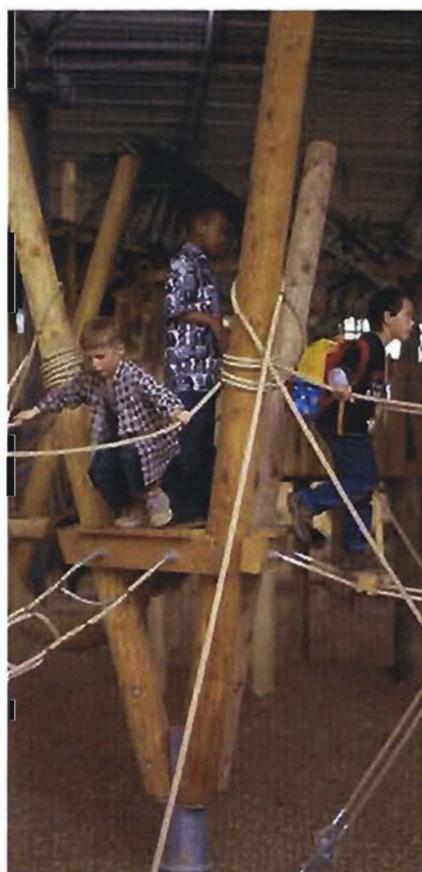
- sturdy wooden construction with natural posts, fitted together in a foundation joint
- gentle springy and swinging movement

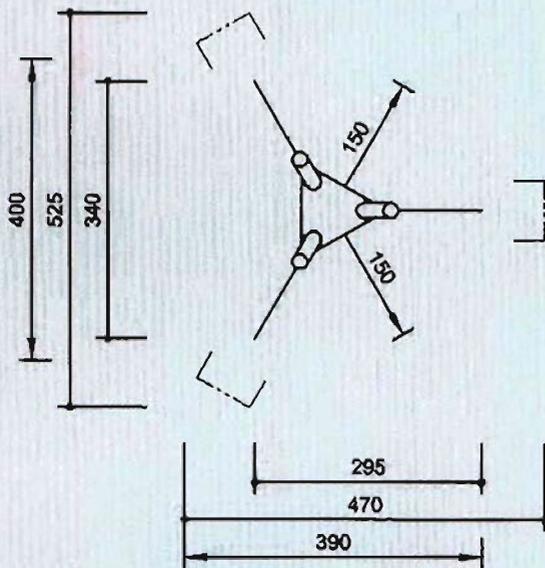
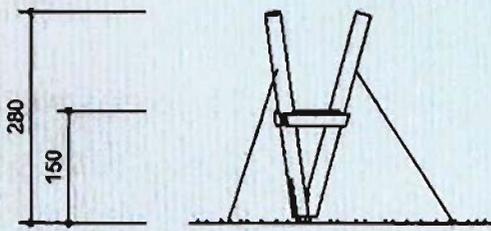
Suitable

- for children from 5 years
- for public playgrounds
- leisure areas
- parks
- school playgrounds



Wobbly Platform





scale 1:100

Materials

Equipment of mountain larch, selected according to eight quality criteria;

de-barked posts
de-barked posts, Ø 15 - 18 cm



core-free timber
sawn-timbers are core-free, measurements refer to wood before planing;



Corocord® rope
special ropes of „Hercules“ type
six-strand Corocord® rope of the special „Hercules“ type, abrasion protected through heating of the six steel strands and melting the polyamide sleeve onto them;



aluminium swages
double-conical aluminium swages with rounded-off ends;



The central steel post is hot-dip galvanised and serves as moveable support for the platform. In addition, the steel post ensures that the platform cannot fall over if the guy ropes should fail or get destroyed;

Dimensions
(small deviations possible)

height	2,80 m
floor height	1,50 m
with guy ropes	3,40 x 2,95 m
weight approx.	300 kg

Safety check according to EN 1176/1177

Components

- 1 wooden construction with 3 guy ropes and spring elements
- 1 steel foot

Installation Information

Surfacing requirements corresponding to a fall height of 1,50 m (please refer to introduction for more detailed information)

- Foundations**
- 1 item 1,00 x 1,00 x 1,00 m
 - 3 items 0,80 x 0,80 x 1,00 m

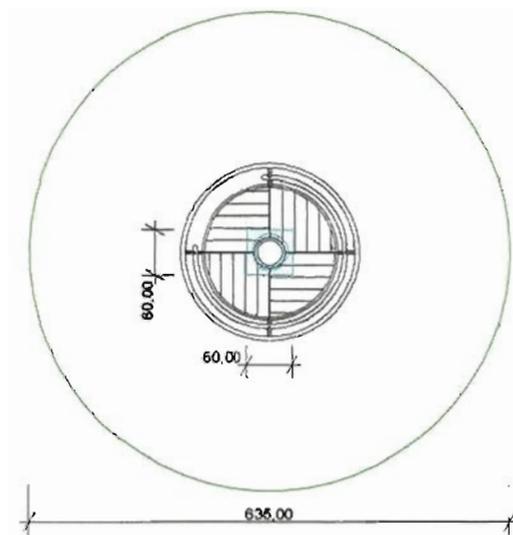
Attention:
Exact measurements may vary, for all installation dimensions refer to current installation instructions.
Technical changes reserved.



8.81500

For more detailed explanation of the quality characteristics see introduction

KARUZELA 4



8.26502

€ 403,33 - 22779,5

Play value

This well designed carousel offers place for many children at the same time. When turning around slowly, it is possible to sit down on the lower tube and lean against the upper one for having a relaxed chat. When the carousel gets turned around by the turning wheel in the middle, the speed can get higher and children hold on to the tubes. This type of carousel is also suitable as a meeting point for young people.



Fundamental characteristics

- agreeable design
- pleasant wooden floor
- different options for sitting and holding on due to the shape of the tubes and the overall design; experience of acceleration and slowing down by moving one's centre of gravity
- incentive for playing: shape of hand-rails, turning wheel
- movement: turning, moving one's centre of gravity

Suitable

- for children from 6 years
- for public playgrounds
- school playgrounds
- pedestrian areas

Carousel with Seating Ring

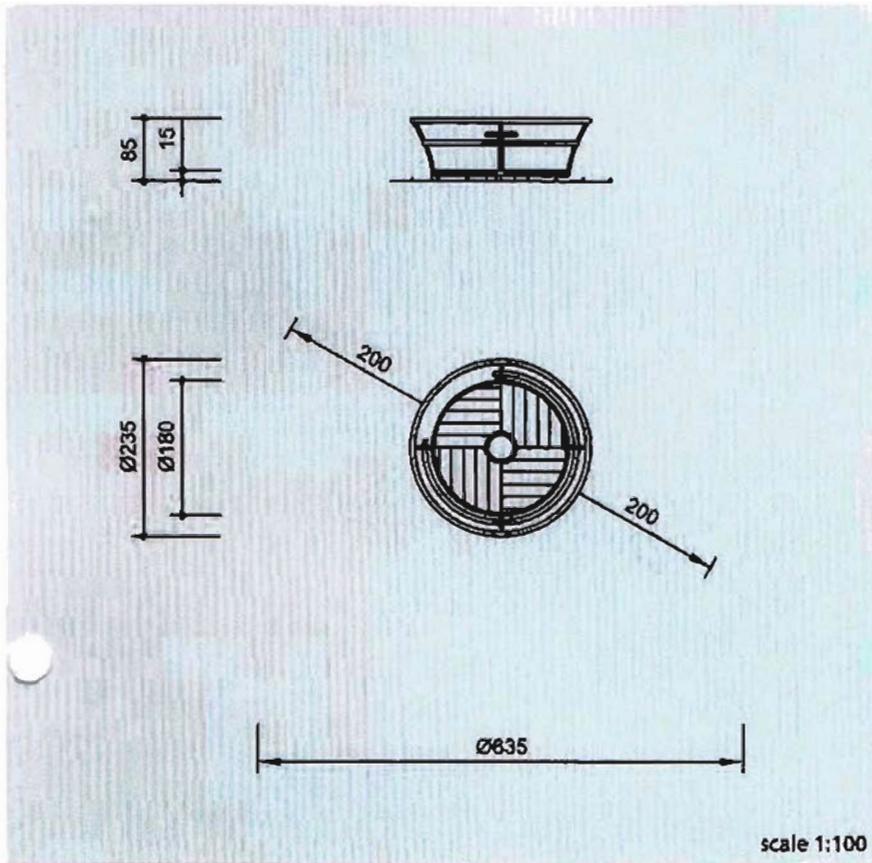
© Richter Spielgeräte GmbH 2006

Design and Copyright



6.26502





Materials

carousel structure of stainless steel;

sturdy, welded substructure;

core-free timber

rotating floor of 40 mm sawn-timbers of mountain larch, core-free, measurements refer to wood before planing, selected according to eight quality criteria, with relief cuts;



mechanism with double ball-bearings; lacquered, water and sand proof, maintenance free;

seating rings Ø 60 mm
all other tubes Ø 33,7 mm;

foundation frame of steel;

Dimensions

(small deviations possible)

equipment height	0,85 m
diameter on top	2,35 m
diameter of the floor	1,85 m
weight approx.	230 kg

For more detailed explanation of the quality characteristics see introduction

Safety check according to EN 1176/1177

Components

- 1 carousel
- 1 foundation frame

Installation Information

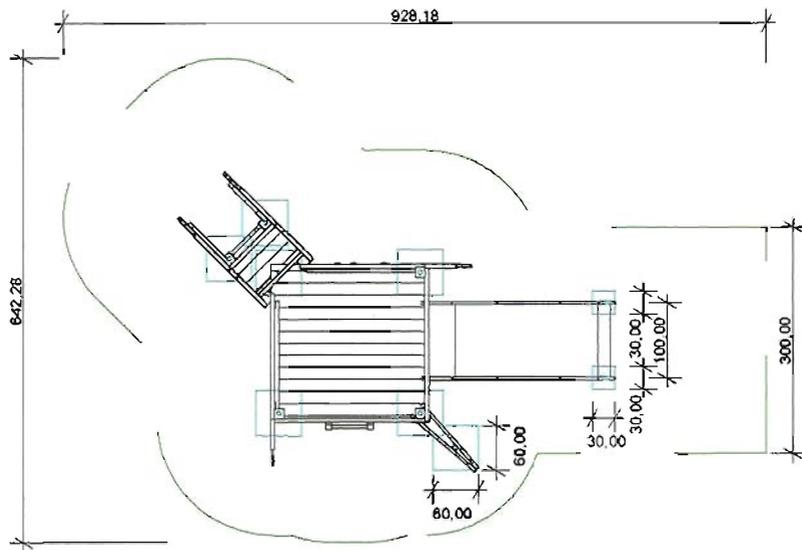
Surfacing requirements corresponding to a fall height of < 0,60 m
recommendation: fall height < 1,00 m
(please refer to introduction for more detailed information)

Foundations
1 item 80 x 80 x 80 cm

Attention:
Exact measurements may vary, for all installation dimensions refer to current installation instructions.
Technical changes reserved.



ZJEŹDŹALNIA 5



8.83300

Play value

The shape of a play equipment is one of the main factors giving children the necessary stimulus for active play. By an attractive design, children become aware of the play offer. A friendly look creates a pleasant atmosphere and invites children to play. Rope nest and slide are included in the basic elements of the Big Bird Platform. In addition, there are three coloured climbing grips attached to the head.



Fundamental characteristics

- high-quality design
- coloured elements, eye-catcher
- creates a pleasant atmosphere
- many possibilities for attaching play elements
- play offers inside the structure
- incentive for playing: climbing grips, friendly face
- movement: climbing, role games

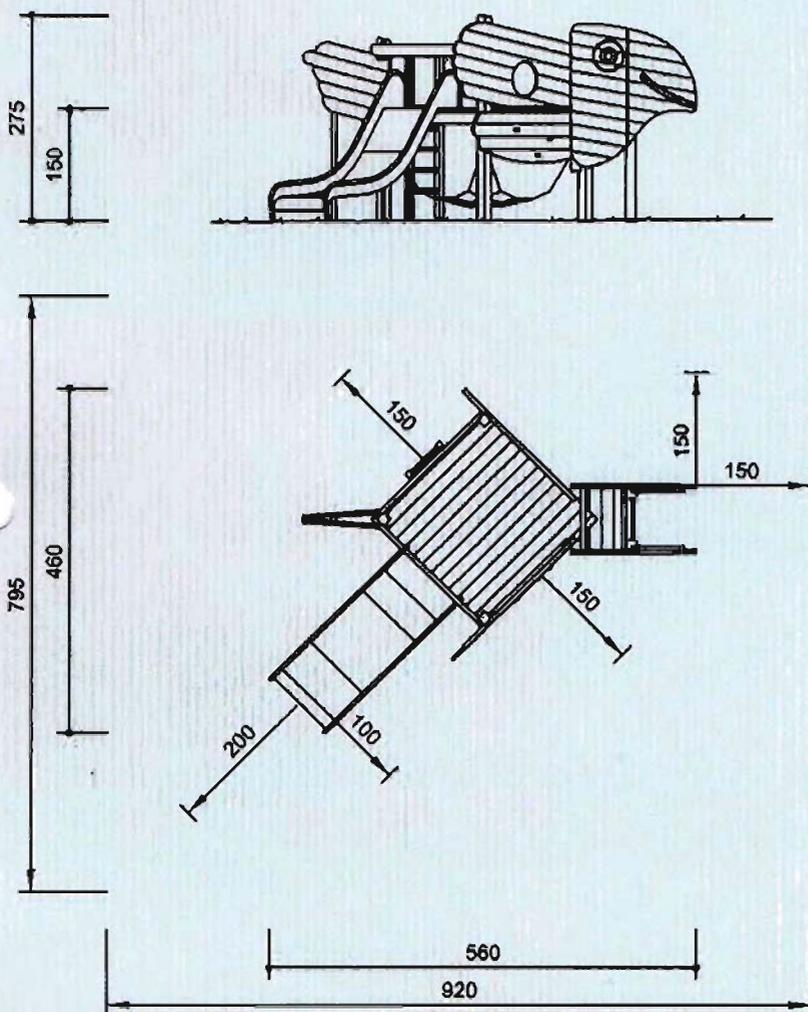
Suitable

- for children from 4 years
- for playgrounds situated near houses
- public playgrounds
- school playgrounds

Big Bird Platform

12.12.1970
60.185.40





scale 1:100

Safety check according to EN 1176/1177

Components

- 1 Platform
two sides close clad in the shape of a bird, with double sided head and tail, coloured design according to picture
- 1 ladder in the head
- 3 climbing grips
- 1 rope nest
- 1 stainless steel slide, width 1,00 m
attachment height 1,50 m

Installation information

Surfacing requirements corresponding to a fall height of 1,50 m (please refer to introduction for more detailed information)

Foundations

- 5 items 60 x 60 x 70 cm
- 1 item 30 x 70 x 50 cm
- 2 items 30 x 30 x 70 cm

Attention:

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

Materials**core-free timber**

all timbers of mountain larch, core-free, measurements refer to wood before planing, selected according to eight quality criteria;

**tongue and groove**

platform boards of 45 mm tongue and groove boarding;

**hardwood rungs**

climbing rungs of hardwood, milled and mortised, \varnothing 42 mm;

**Corocord® rope**

special ropes of „Hercules“ type rope nest of 19 mm six-strand Corocord® rope of the special „Hercules“ type, abrasion protected through heating of the six steel strands and melting the polyamide sleeve onto them;

**aluminium swages**

double-conical aluminium swages with rounded-off ends;

**S-clamps**

neatly rounded Corocord®S clamps made of stainless steel, \varnothing 8 mm;

**ground anchor**

steel feet hot-dip galvanised;



slide of stainless steel, thickness of slide metal 3 mm, handrail tube \varnothing 42 mm, thickness 2 mm;

professional climbing grips made of a mixture of sand/synthetic resin with 100% safe anti-rotation system against unintended twisting of the grips;

solvent-free acrylic paints are used for colouring; the wood is painted in a way which allows the structure of the wood to remain clearly visible;

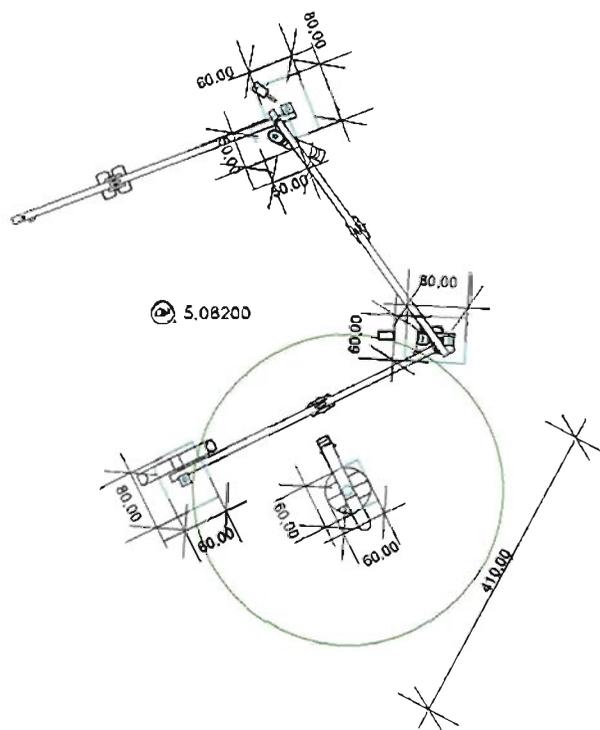
Dimensions

(small deviations possible)

total length	5,60 m
total width	4,60 m
total height	2,75 m
floor height	1,50 m
floor size	2,00 x 2,00 m
weight approx.	700 kg



ZESTAW SPRAWNOŚCIOWY 6



10.11.11
10.11.11

Play value

Sand Transport Systems are part of a building site. Conveyor tracks, cranes, sand hoists and other elements, enable children to mimic work processes realistically. Insights are awakened through play. In combination with a Building Site the experience is deepened, creativity and co-operation are promoted.



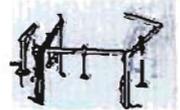
Planning Information

The single elements can be combined individually.

Sand Transport System
for attachment

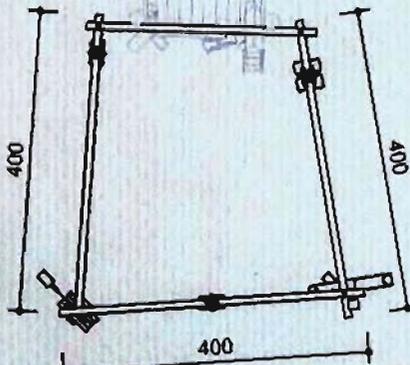
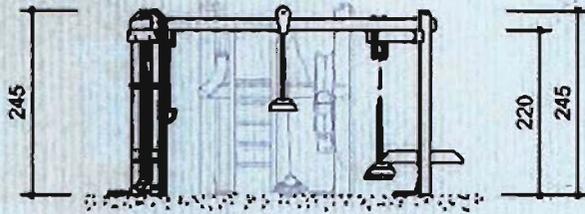


5.06100

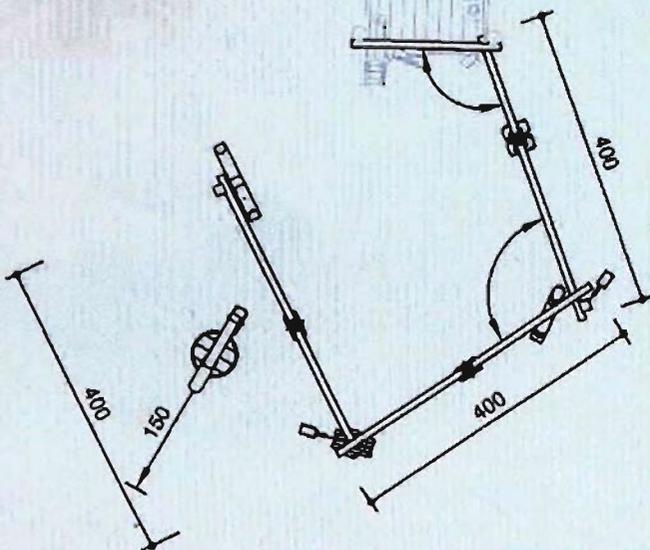
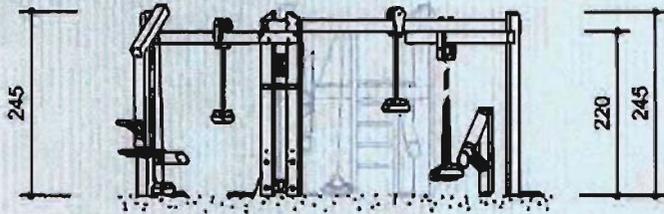


5.06200

Order no. 5.06100 Sand Transport System Type I



Order no. 5.06200 Sand Transport System Type II



scale 1:100

Materials

Equipment of mountain larch, selected according to eight quality criteria, double supports 14/16 cm, end support and middle support 14/14 cm, crane 18/18 cm, guide rails 10/15 cm;

travelling crabs of oak:

angle cut

vertical support posts with angle cut in the end grain section as constructive wood preservation;



core-free timber

sawn-timbers core-free, measurements refer to wood before planing;



tongue and groove

platform boards (crane) of 45 mm tongue and groove boarding;



ground anchor

steel feet hot-dip galvanised;



chains

suspended on short-link chains, 5 mm, welded before hot-dip galvanisation (stainless steel chains available on request);



rollers with ball bearings;

sand containers of milled-off tyres, suspended on hose sleeved chains;

chutes of plastic;

bearing of the chute with dampened impact;

sand crane, revolving 350°, with maintenance free turning mechanism;

Dimensions

(small deviations possible)

total height	2,45 m
length of conveyor tracks	4,00 m
length of connecting beam	3,00 m
chutes	0,16 m x 1,10 m

weight

Order no. 5.06100	approx. 250 kg
Order no. 5.06200	approx. 350 kg

For more detailed explanation of the quality characteristics see introduction

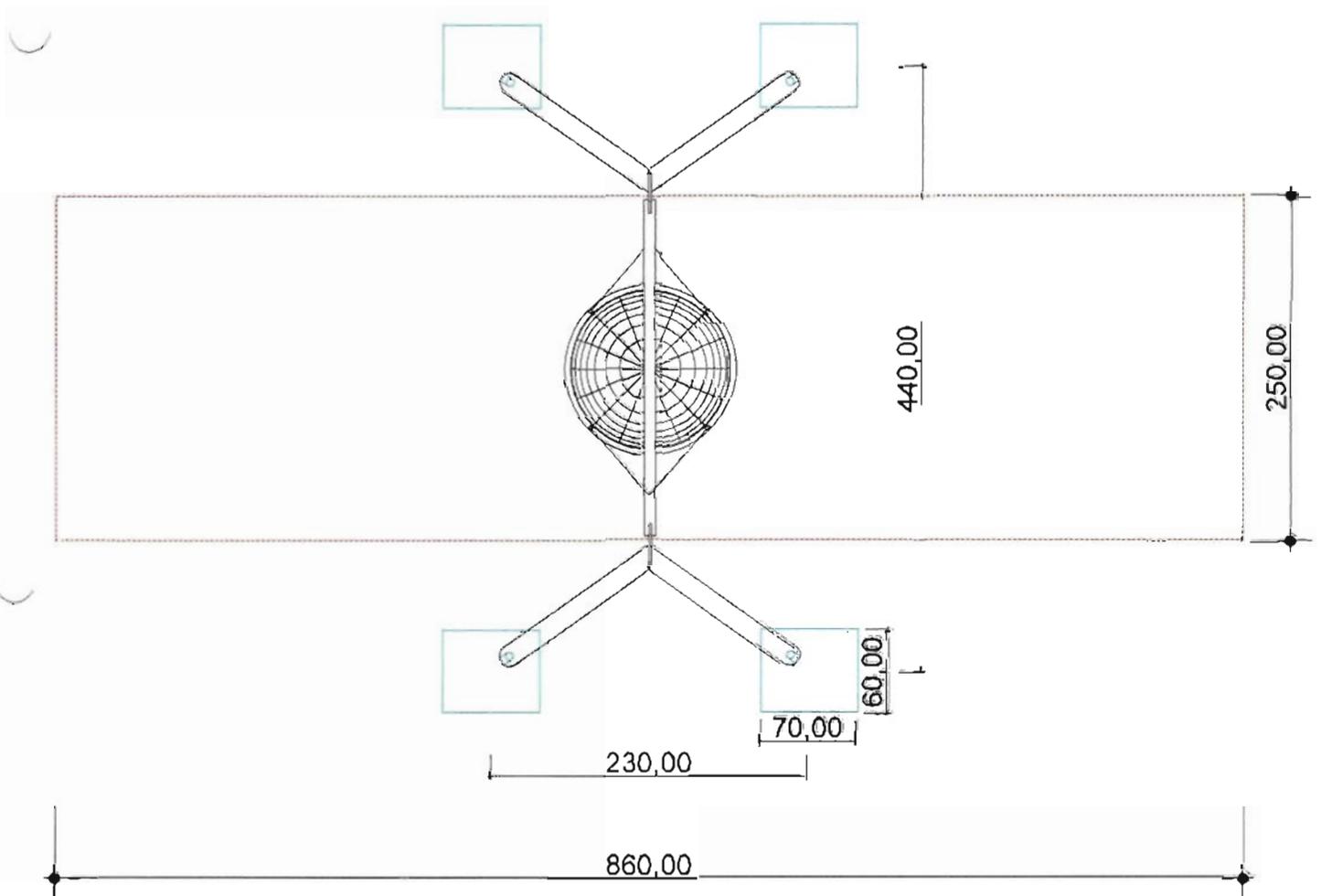
Safety check according to EN 1175/1177



5.06100

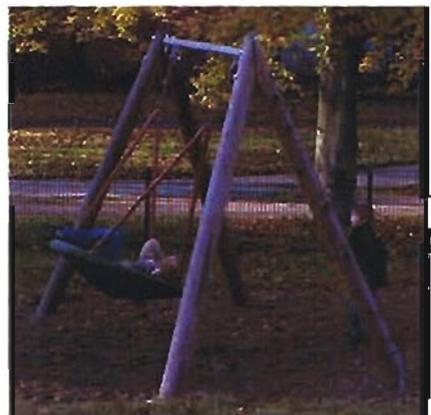
5.06200

HUŚTAWKA 7



 L6.14520

3. GEFÜHRTE
 11.550,- € PL



Play value

Swinging and rocking are typical movements in the childhood. Children are looking for possibilities to experience this swinging movement. Lying in the Cradle Swing is above all pleasant when a friendly co-player sets the swing in motion from outside. It is special fun if there are several "chicks" in the nest.

Fundamental characteristics

- appealing design
- sturdy construction of round poles
- older children can also use the nest as a swing
- incentive for playing: lying oneself in a nest
- movement: swaying, rocking and swinging

Suitable

- for children from 3 years
- for nurseries
- public playgrounds
- playgrounds near houses
- institutions for children with special needs



**Cradle Nest
 Cradle Nest special**

Order no. 6.14500 Cradle Nest



6.14500

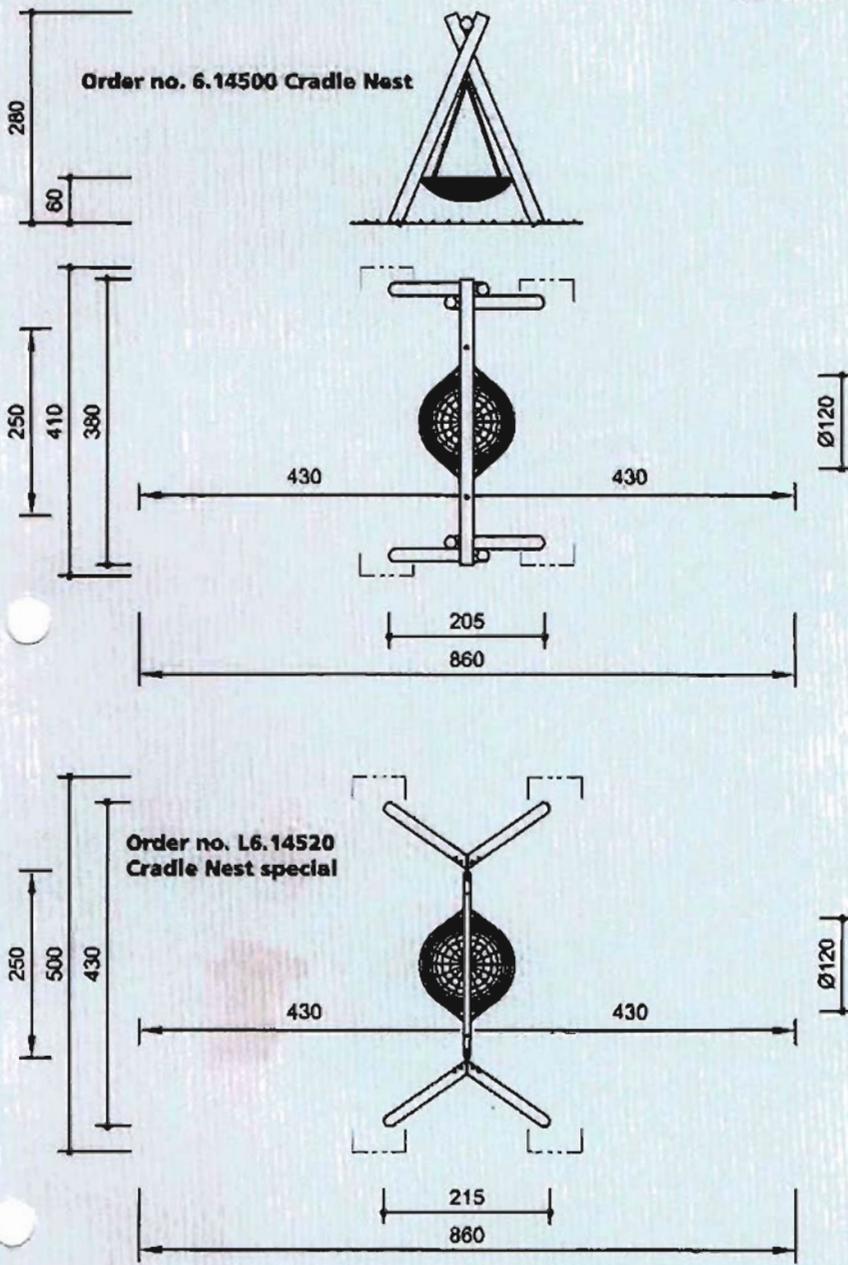


L6.14520

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scale 1:100



Safety check according to EN 1176/1177

Components**Order no. 6.14500
Cradle Nest**

- 1 cross beam
- 2 support frames
- 1 cradle nest suspended on hose-sleeved chains

**Order no L6.14520
Cradle Nest special**

- 1 metal cross beam
- 2 support frames with steel feet
- 1 cradle nest suspended on hose-sleeved chains

Installation Information

Surfacing requirements corresponding to a fall height of 1,25 m (please refer to introduction for more detailed information)

Foundations
4 items 60 x 70 x 80 cm

Attention:

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

Order no. 6.14500 Cradle Nest also available with steel feet.

Materials**Order no. 6.14500 Cradle Nest****de-barked posts**

de-barked posts, \varnothing 15 - 18 cm, of spruce/fir, boiler pressure impregnated according to DIN 68800, hazards class 4;

**perforated**

the earth/air zone of the wood is perforated by small bore holes to ensure that the impregnating agent penetrates this particularly endangered zone;

**universal joint**

drop-forged joint yoke; the universal joint insert consists of two swing bearings;

**concealed head**

large surface for pressure distribution, prevents water from getting inside, protects the bolt head, easy procurement of spare parts by company trademark indelibly inscribed on the equipment;

**adjustable bolts**

no projecting threads after re-tightening due to two-piece bolt connection;

**strong fastening**

bolt connections with milled metal rings for connections which are stressed cross-wise,

**brass bush**

for all to and fro movements we use bush bearings which allow for self-lubrication while in use;



cradle nest, \varnothing 120 cm, with coloured rope ring, basket of recycling rubber-chain-steel cable mat;

suspended on 8 mm hose-sleeved chains, hot-dip galvanised;

fittings hot-dip galvanised, reinforced;

**Order no. L6.14520
Cradle Nest special**

Description of materials as before, but posts of mountain larch, selected according to eight quality criteria;

crossbar

of galvanised steel, with rigid corner connection;

**ground anchor**

steel feet hot-dip galvanised;

**Dimensions**

(small deviations possible)

Order no.	6.14500	L6.14520
height	2,80 m	3,00 m
width	3,80 m	4,30 m
depth	2,05 m	2,15 m
weight approx.	330 kg	330 kg

For more detailed explanation of the quality characteristics see introduction

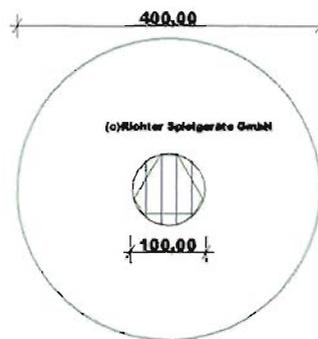


6.14500



L6.14520

PLATFORMY 8



6.06000

5045100 1.1.17
2.18.1.20 PL

Play value

Round spring platforms are mounted on strong, low springs. It is not only fun to jump on them, but one can jump off the disc in any direction, as from a spring-board. The momentum which is enforced by the springs propels the jumping child quite far. Jumping from one disc to the other represents a special sequence of movements and a challenge for small children. Therefore the installation of at least two Jumping Discs is recommended.



Fundamental characteristics

- wooden surface with natural structure for a good grip
- incentive for playing: round, low wooden plate, springs
- movement: jumping up and down, jumping off, hopping

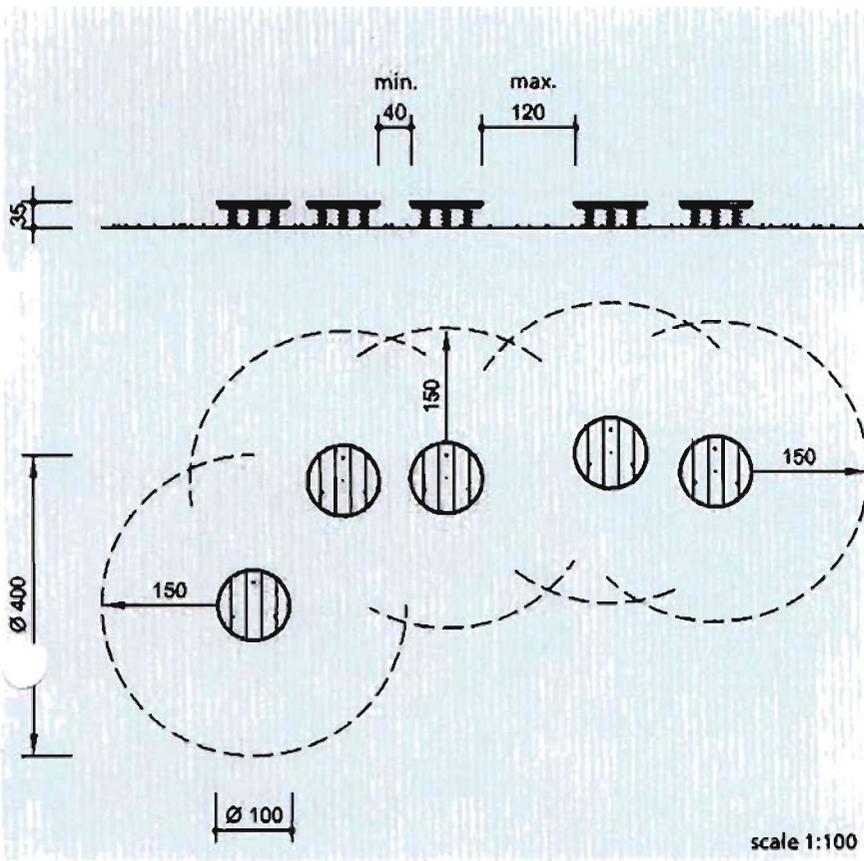
Suitable

- for children from 4 years
- for public playgrounds
- institutions for children
- school playgrounds
- parks
- open-air swimming pools
- as play offer alongside paths

Jumping Disc
with pre-cast foundation



6.06000



Materials

equipment of mountain larch, selected according to eight quality criteria;

core-free timber

sawn-timbers of mountain larch, core-free, measurements refer to wood before planing;



top of 45 mm boards, screwed together with expansion joints;

coated springs, standard colour red;

fastening elements galvanised;

Dimensions

(small deviations possible)

height	0,35 m
diameter	1,00 m
weight approx.	140 kg

Safety check according to EN 1176/1177

Components

- 1 disc complete with 3 springs
- 1 pre-fabricated concrete foundation

Installation information

Surfacing requirements corresponding to a fall height of < 0,60 m (please refer to introduction for more detailed information)

Foundations

For installation in loose material, an additional anchorage in concrete is necessary on-site.

Attention:

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

Technical changes reserved.

For more detailed explanation of the quality characteristics see introduction

