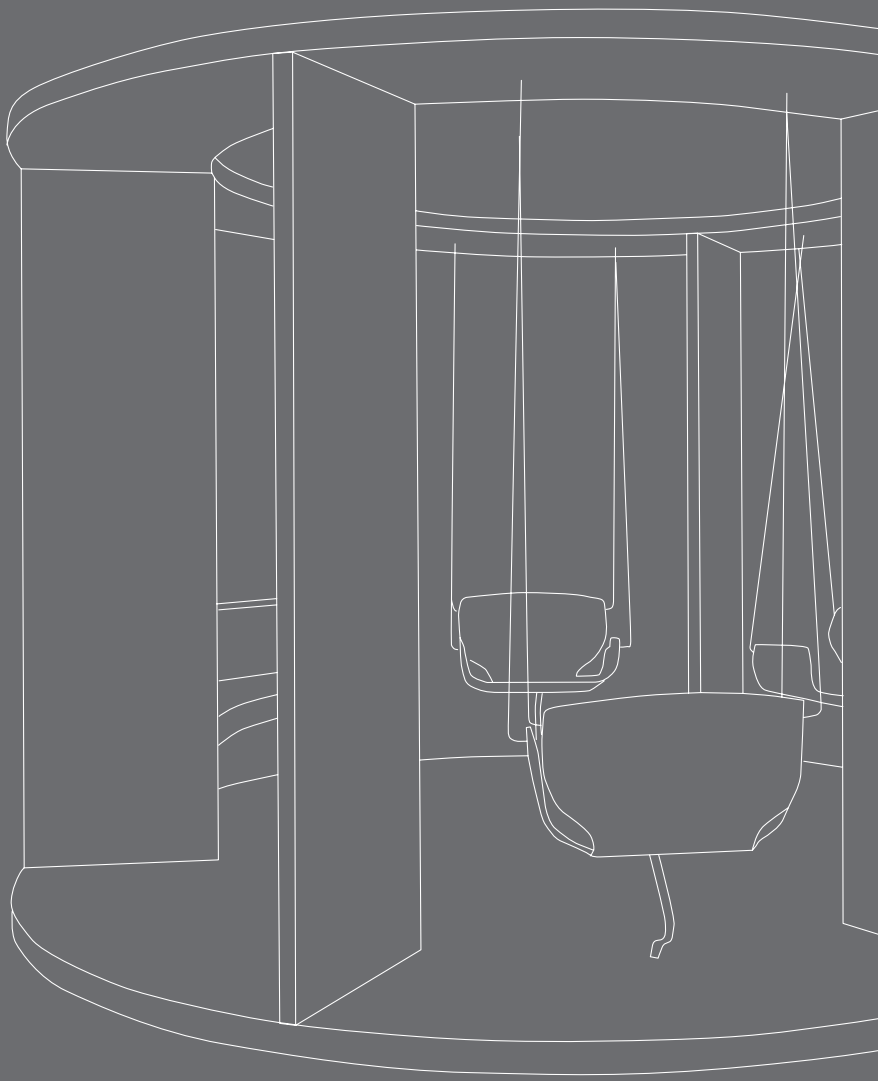
bejot

SOCIAL SWING ROUND



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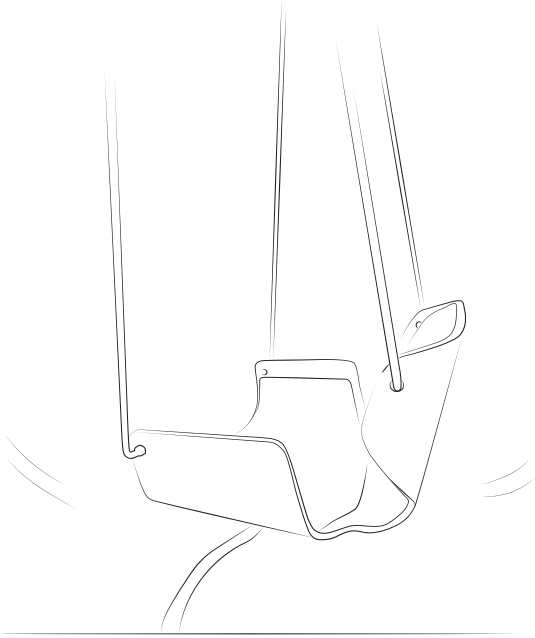
Social Swing creates an informal meeting place that stimulates creativity. This is the place where the most inspiring and surprising ideas can arise in an atmosphere of a free discussion. All of this thanks to a slight swinging motion of the seats, which has an impact on simmering down emotions, stimulating concentration and increasing effectiveness.

Social Swing transfers an atmosphere of the nearby park to your office, and an option of a configuration makes it possible to be used simultaneously by from 1 up to 10 persons.

Advantages of Social Swing

1. supports **endorphin** production
2. helps in creating new **neural connections**
3. enables to move and develops a better **orientation in space**
4. **relaxes**
5. calms **deep sensibility**
6. simulates **creativity**
7. developed according to the **biophilic design concept**
8. supports **team building**
9. may be a **source of inspiration**



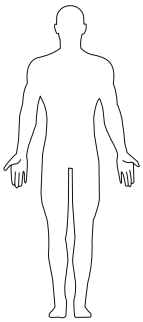
Calm swinging motion is beneficiary for your PHYSICAL, SOCIAL and COGNITIVE development and offer certain therapeutic benefits. The suspended seats promote movement and sensory integration, including a vestibular development.

Swinging motion stimulates a labyrinth and a proprioceptive sense and as a result a number of the new neuronal connections is increased. Furthermore, a feeling of peace caused by a usage of the swings enhances an endorphin – happiness hormone – production what influences advantageously not only the further work, but also effectiveness of rest.

Source: Frost, Joe L., Pei-San Brown, John A. Sutterby, Debora Wisneski *Function and Value of Swings: The Benefits of Playground Swings*

Do You know that...

...the SENSE OF BALANCE organ is located in the labyrinth, that is in the inner ear. It enables to sense a spatial position of your own body. All information received from the labyrinth is sent to a balance centre in the brain. There it is compared with the information from the other senses, in particular the proprioceptive sense.



PROPRIOCEPTIVE SENSE (named also kinaesthesia or deep feeling) is responsible for a spatial position of the individual parts of the body. Proprioceptors are located in the muscles, fasciae, tendons, ligaments, articular capsules and periosteum.

A primary consequence of the abnormally functioning kinaesthesia is weakening of the sense of balance, motor coordination and body awareness.

The exercises stimulating a vestibular and proprioceptive system include, inter alia, **rocking, swinging motions of the entire body and a head.**

Opinions of experts

The furniture set of Social Swing with suspended armchairs meets the most important requirements which are set for office space projects from the perspective of current sociological knowledge about collective work. The condition for an effective meeting is to enable visual and auditory interaction in the optimal range. The interplay of interlocutors is ensured by the arrangement of the seats in the circle. The Social Swing Round design helps create narratives of shared benefits. The interlocutors see each other in full-size figures, which is not possible at conference tables. This signals greater openness and mutual acceptance. Pendular movements of bodies on suspended seats serve as illustrative gestures and express readiness to accept the informal way of conversation, allowing the departure from the main strand and the use of the method of distant associations. As a result, the respondents are more likely to use such techniques of creative thinking as inference by analogy. The analysis of the communication situation allows to recognize that the Social Swing Round furniture set has an impact on the smooth of the creative conversation and its democratic character. It indirectly evokes the flexibility of the creative process, understood as the willingness of the discussants to spontaneously change the direction of thinking. It serves the evaluation of initial ideas, the free and easy recalling and rejection of various categories of assessments.

dr Marek Chojnacki

University lecturer
researcher of creative processes
specialist in social communication

Social Swing is a product that meets the necessary standards related to the construction and usage of the product. It underwent a series of tests, among others related to the strength of the furniture and suspended seats' construction.

Construction elements are made of appropriate materials certified and admitted to trading in construction in the light of the provisions of the Construction Law.

The design of the seats meets the standards of the chair, which guarantees the comfort of sitting and usage. In addition, each suspended seat has the seats' blockade – a special nylon belt, which protects against excessive swing outside the Social Swing, thereby reducing the likelihood of collision with a person standing or passing near the Social Swing product, as well as between users.

The presented certificates and solutions meet all health and safety standards and certify that the product can be safely used in public spaces.

Marcin Jarzyna

OHS specialist

Product designation

PRIOR TO COMMENCING AN ASSEMBLY OF THE FURNITURE,
PLEASE READ THE ASSEMBLY INSTRUCTIONS PROVIDED BY THE MANUFACTURER.

Intended use

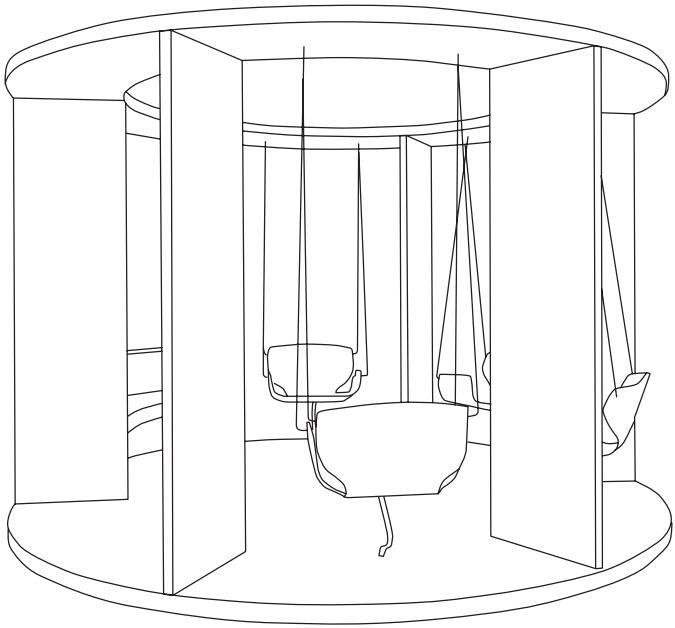
SOCIAL SWING ROUND is a furniture set with the suspended seats intended only for the indoor use, in the office and public spaces.

Depending on a configuration, the furniture set may be used simultaneously by 1 up to 10 persons. An exemplary layout intended for 6 persons included four suspended seats and one two-person bench. Maximum number of persons – 10, in the layout with five two-person benches. It is forbidden to use a single suspended seat by more than one person.

Maximum total static load is of 1000kg. In case of the excessive aggregate total weight of the users exceeding maximum permissible load a number of the users should be reduced.

Dimensions

3600mm x 3600mm x 2300mm [width x length x height]



Instruction for use

PLEASE, **READ THE INSTRUCTIONS PRIOR TO THE FIRST USE**
AND KEEP THE INSTRUCTIONS FOR FUTURE REFERENCE.

1. A use is allowed for persons over 18 years of age.

2. The Social Swing furniture set should be used in accordance with its intended use.

3. Use the furniture set only on a hard, horizontal surface. The furniture is not fixed permanently to the ground.

4. The furniture should not be placed at a distance less than 2.5 m from the active gas heaters or fire sources.

5. For safety reasons, a suggested distance from passageways should not be less than 80 centimeters from the maximum reclining point of the seat.

6. When moving the furniture and its elements, it is necessary to protect all upholstered elements against damage and dirt.

7. The correct position on the suspended armchair is the position with feet resting on the ground. It is not allowed to rock in the position with the upright legs. When using the seat, do not overly tilt the seat forward or backwards, as this may result in the loss of stability of the furniture or a hit of the persons staying nearby.

8. It is forbidden to stand, climb, sit on the top structural panel (roof) and sit with feet on the seat of a suspended armchair and bench.

9. When using a piece of furniture, do not consume any beverages or food.

10. It is recommended to conduct a functional review of the Social Swing Round every 3 months, consisting in checking the screw connections of the structure, a stability of the structure, mechanisms limiting the seat inclination. In the event of an occurrence of any product defects, cracks or damage to the seat or bench surface, or load-bearing elements or any loosening of the elements, immediately withdraw the furniture from service in order to ensure the safety of the user.

11. The worn elements should be replaced with the identical ones or the ones featuring the identical properties. For replacement or repair, please contact the manufacturer. Any unauthorized repairs, interference with the construction, use of the elements other than those recommended by the Manufacturer shall void the warranty.

12. Pregnant women should exercise extreme caution when using the furniture.

13. It is forbidden to use the furniture by the intoxicated persons.

14. Do not put your legs or hands in the course of the assembly or the use between the side surfaces of the seat, and the frame of the armchair structure due to the risk of injury.

15. Warranty period: 24 months.

Technical data

Ceiling
A wooden structure placed on a steel frame covered with foam and upholstered with fabric.

Structure
A steel structure filled with HDF board, covered with foam and upholstered with fabric.

Floor
A wooden structure placed on a steel frame covered with foam and finished with a mask according to a Bejot colour fan-deck and artificial grass.

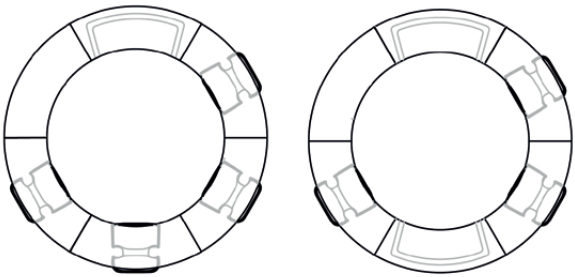
Suspended seat
Bucket made from plywood, coloured according to the Bejot colour fan-deck. A cover on the seat and a backrest made from the foam, upholstered with fabric or leather. **Maximum permissible load of one seat is of 120 kg**.

Slings
Metal slings powder painted according to Bejot colour fan-deck.

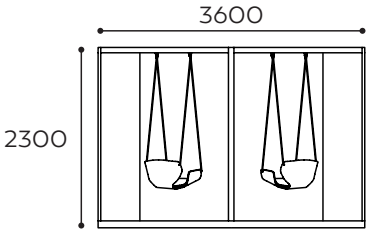
Bench
A two-person bench based on a box construction covered with foam and upholstered with fabric.

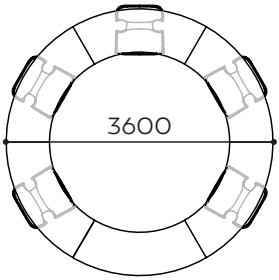
Lock
A nylon strip limiting the leaning out of a suspended armchair.

Configure your own set



Dimensions



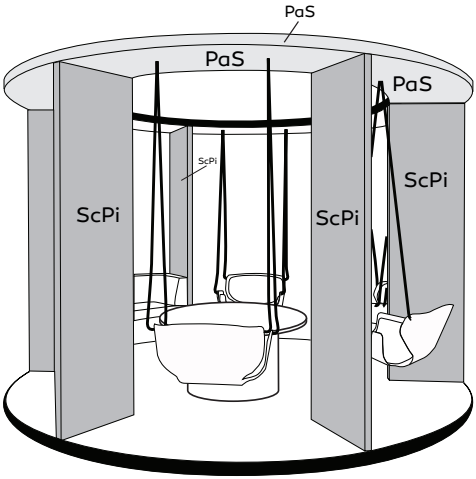


2x pallet:
H: 1000
W: 800
L: 2400

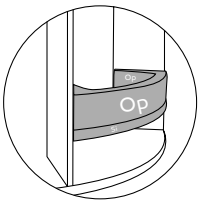
1x pallet:
H: 1000
W: 1000
L: 1800

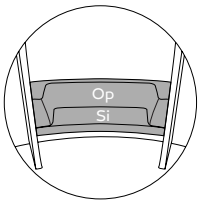
550

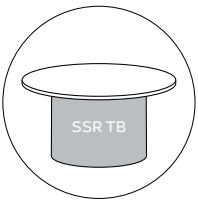
Upholstering

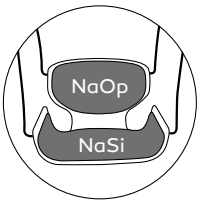


1. **ScPi** – vertical walls — **first colour of the fabric**
2. **PaS** – ceiling panels — **second colour of the fabric**
3. **Si+Op** – bench — **third colour of the fabric**
4. **NaSi** – seat overlay of the suspended seat
   NaOp – backrest overlay of the suspended seat — **fourth colour of the fabric**
5. **SSR TB** – table base — **fifth colour of the fabric**



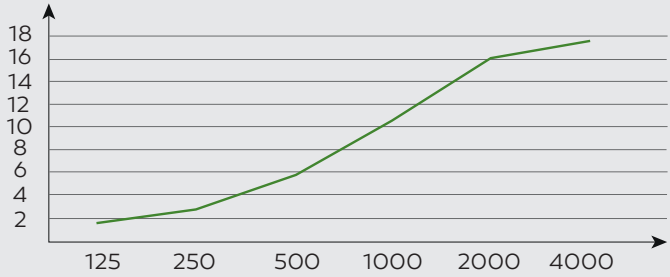




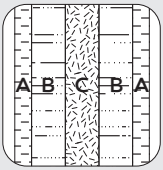


Acoustic tests

Estimated sound absorbency A_{obj} [m^2] depending on frequency [Hz]*



* results for an outlay of 4 swinging seats and 1 bench



A – fabric
B – absorption material
C – load-bearing structure

University of Natural Sciences in Poznań, Faculty of Wood Technology, Department of Furniture
Laboratory of Furniture Testing and Certification

TEST REPORT NO 39/17/S

1. ***Test subject and scope:***

   Verification of compliance of furniture with standards

2. ***Order number: RDM 45/A/17/S***

3. ***Name and address of customer:***

   BEJOT Sp. z o.o.
   63-112 Brodnica k/Poznania
   Manieczki, ul. Wybickiego 2a

4. ***Designation and symbol of type of product/products covered by tests:***

   Social Swing

5. ***Test carried out in the period:*** **29/09/2017 – 04/10/2017**

6. ***Identification of tested product/products covered by tests:***

   Technical description and design drawing of the product

7. ***List of standards on the basis of which the tests have been carried out:***

   PN-EN 581-1:2017_04
   PN-EN 581-2:2016_02
   PN-EN 1728:2012
   PN-EN 16139:2013_07
   PN-EN 12520:2016_02
   PN-EN 1022:2007

8. ***Test results:***

   The results of the strength and life tests are given in the sheets from 1-39/17/S to 4-39/17/S to the test certificate No 39/17/S.

   The test results presented in this report only apply to the tested samples. The test report may not be copied in part or whole.

9. ***Assessment of test results:***

   The above products comply with the standard requirements.

Director of the Laboratory of Furniture Testing and Certification
Illegible signature
Karol Łabęda, M Sc. Eng

Director of the Furniture Department
Illegible signature
Prof. Jerzy Smardzewski

Stamp "University of Natural Sciences in Poznań, Department of Furniture, Laboratory of Furniture Testing and Certification, ul. Wojska Polskiego 38/42, 60-627 Poznań"

Poznań, 4th October 2017

NUMERICAL ANALYSIS OF SOCIALSWING STEEL LOAD-BEARING STRUCTURE

Tomasz Awłasewicz, MSc, Eng.

Grzegorz Gileta, MSc, Eng.

Extended version – February 2018

Calculations were made for: Office For Design Maciej Karpiak

SocialSwing
Numerical strength calculations of a steel load-bearing structure

FINAL CONCLUSIONS

It is clear that the use of skew stiffeners of the vertical trusses has reduced over 30 times the reduced stresses in the structure and reduced almost **1000 times** the absolute displacement of the structure: from almost 23 mm to 0.023 mm.

In all calculation variants, despite the assumed significant dynamic safety factors, the stresses in the structure are below the assumed permissible stresses of 164.5 MPa.

The vector analysis of the forces has shown that the free-standing structure is not at risk of overturning under the assumed operating loads.

Tomasz Awłasewicz, MSc, Eng.
Grzegorz Gileta, MSc, Eng.

LIFTING SLINGS RESEARCH AND CONSTRUCTION
LABORATORY
Mateusz Kowalski, MSc Eng.
ul. Przemvsłowa 21, 62-030 Luboń
tel./fax 61 810 50 53 mobile.501 029 843

Luboń, 28/02/2018

REPORT 134/2018
TEST OF A STIRRUP BOLT

1. SUBJECT OF TEST
The subject of the test was a M 10 screw ended with a stirrup with a bolt ø 10.
After the test the sample was marked: Al/02/18

2. CUSTOMER
ABAKOSTEEL S.C.
Mr Robert Maniak
84-300 Lębork, ul. Artylerzystów 4a
Order dated 26/02/2018

3. PURPOSE OF TEST
Measurement of the static breaking load of the component described in par. 1.

4. TECHNICAL CONDITIONS OF TEST
The test was performed on 28/02/2018.

For the load test, a vertical three-range testing machine for static tensile strength tests up to 100 kN was used, mark ZDM 10/91, serial number 2214/18, manufactured by WPN Rauenstein. Range B up to 50 kN was applied.

Two tests were carried out. The tested part was fastened from the thread side each time using a GP M10 eye nut. In the first test, the tested part was clamped with a flat bar (4.5 mm wide) with an opening of ø 11 (photograph No 1), and in the second test with a chain connector (10 mm wide).

Photograph 1: Fastening arrangement in the first test

5. RESULT OF TEST
First test: flat bar system – the recorded tensile strength was 33.8 kN (i.e. approx. 3,446.58 kG); the broken element was the flat bar which fastened the test piece. The tested part was slightly deformed, but it did not break.

Therefore, a second test was carried out where, instead of a flat bar, a chain connector was fastened. In this case, a force of 44.8 kN (i.e. approx. 4,568.25 kG) was recorded, while the broken element was the middle part of the thread (except for the fastening in the eye nut).

Stamp "Head of the Laboratory, Mateusz Kowalski, Owner"
Illegible signature

Assembly Manual

WKI M6x10

WKI M6x16

WKI M8x16

WWI M6x25

SIM M8x30

SIM M8x60

SIM M8x80

8x24

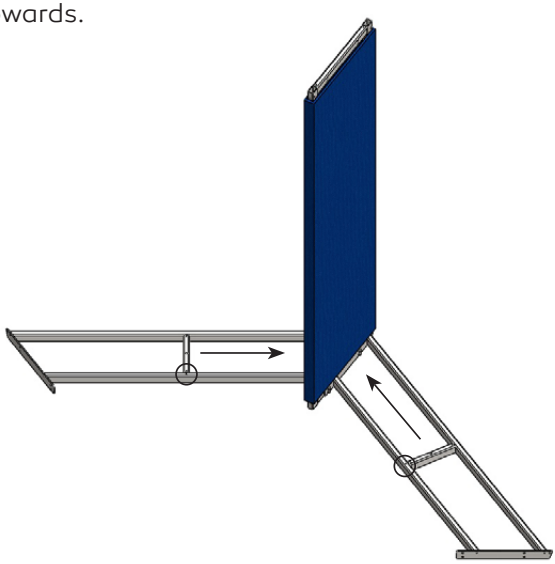
M8

allen key 4

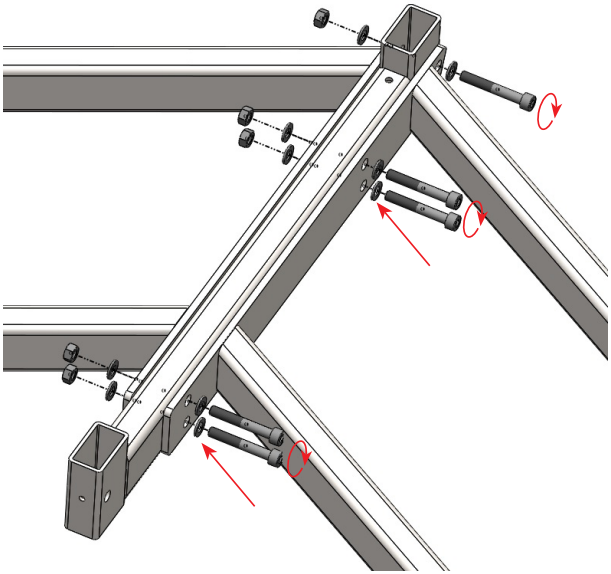
allen key 6

Suggested number of installers: 2 people

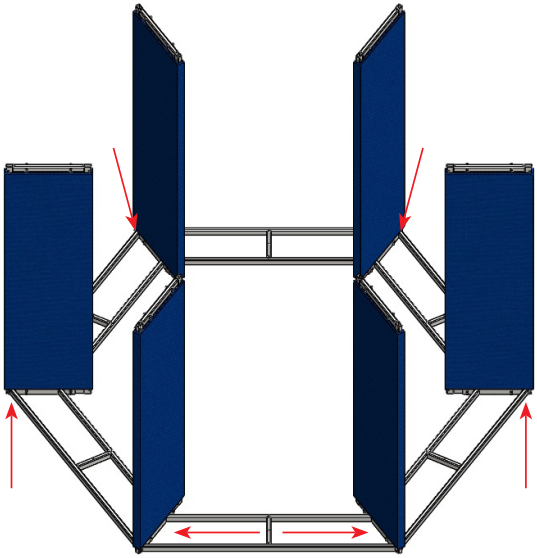
1. Move the bottom structures to the vertical panels with the holes marked upwards.



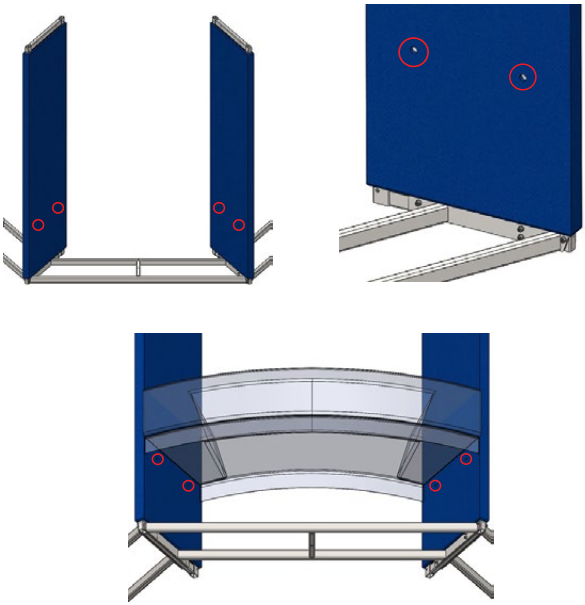
2. Screw with M8x60 SIM screws – 24 pcs. + M8 self-locking nuts – 24 pcs, + washer 8x24 – 48 pcs.



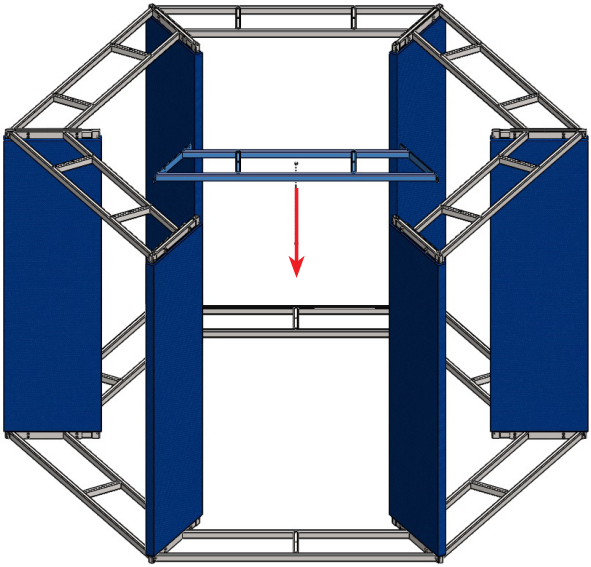
3. Screw 6 pieces around this way.



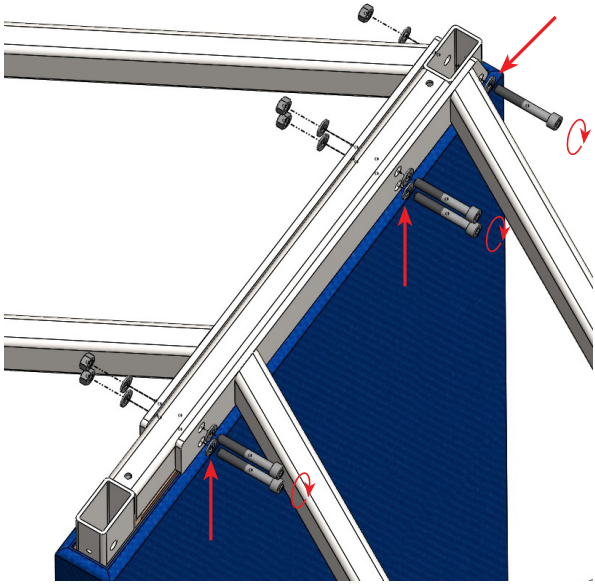
4. In the place of the sofa, screw the vertical walls with burnt holes.



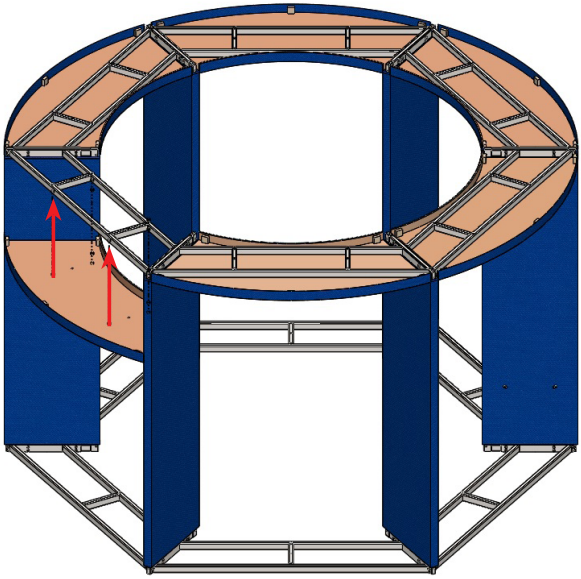
5. Apply the upper constructions to the vertical panels.



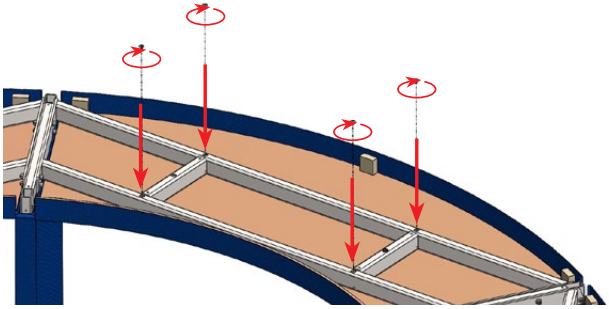
6. Screw with M8x60 SIM screws - 24 pcs. + M8 self-locking nuts - 24 pcs, + washer 8x24- 48 pcs.

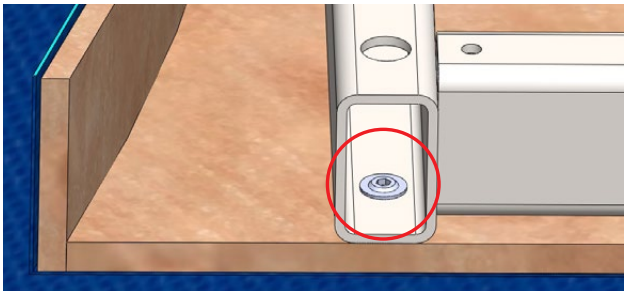


7. Apply the bottom panels of the top panels.

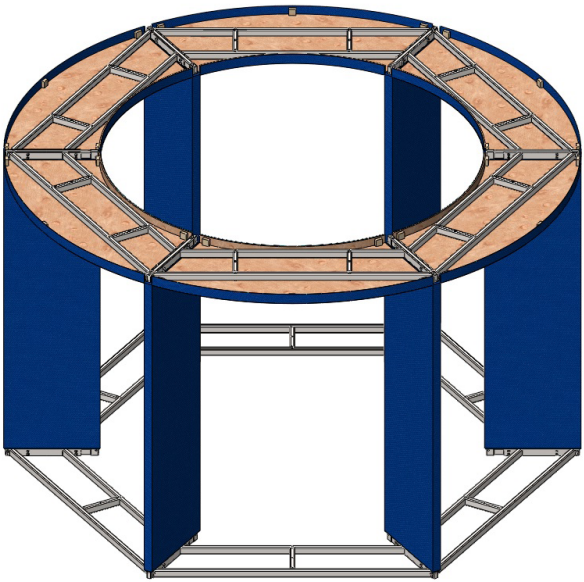


8. Screw the overlays with WKI M6x10 screws without glue - 24 pcs.

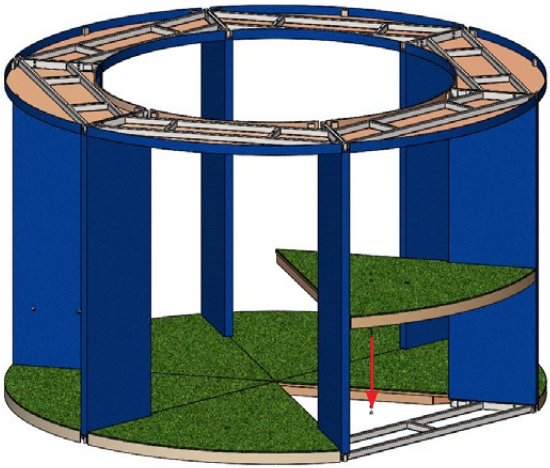


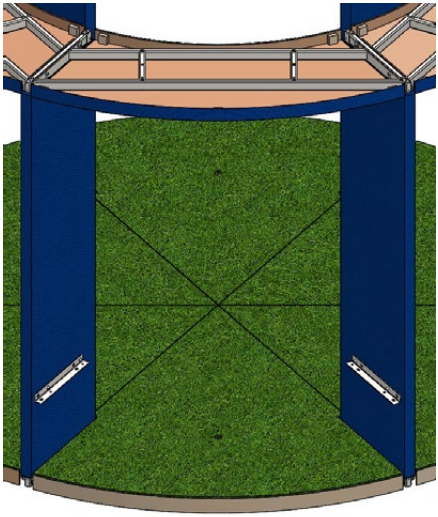


9. Screw 6 pieces around this way.

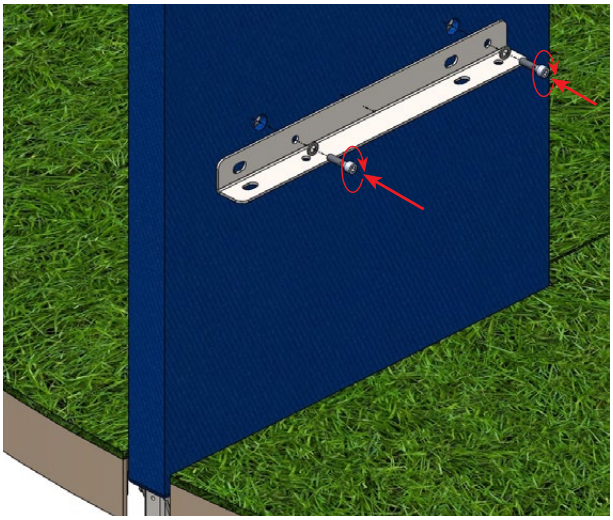


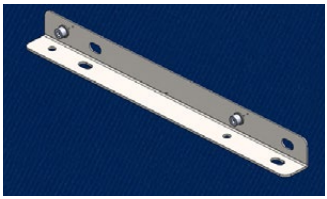
10. Apply floor panels.



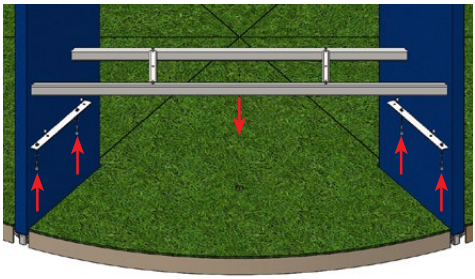


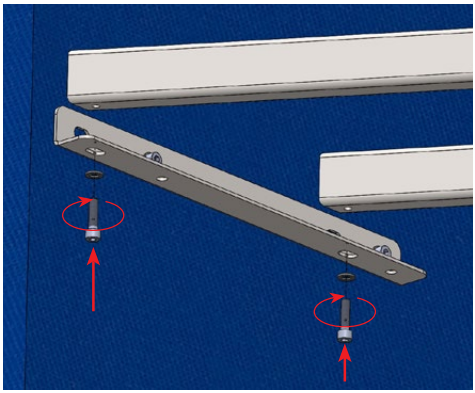
11. Screw the side bench brackets into the vertical panels with SIM M8x30 screws – 4 pcs.



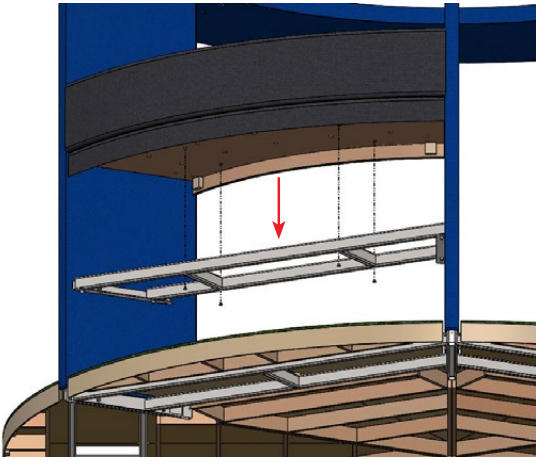


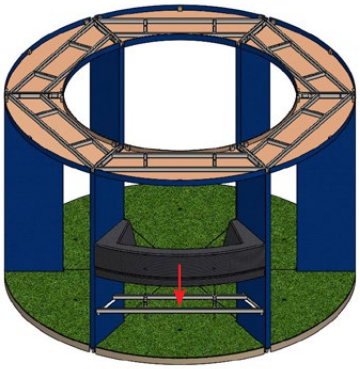
12. Screw the metal frame of the bench to brackets with M8x30 SIM screws – 4 pcs.

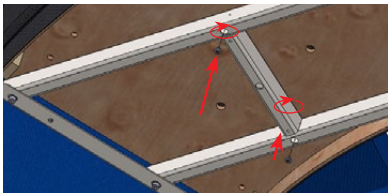




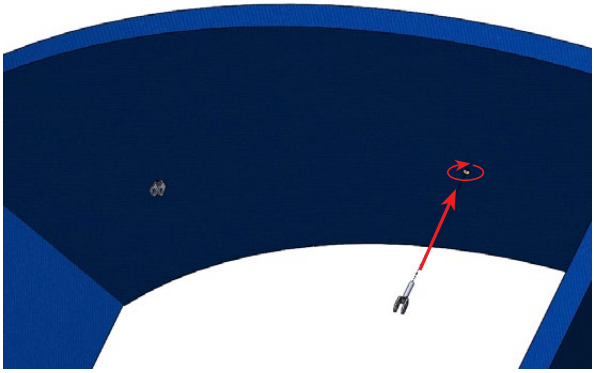
13. Put on and screw the bench to the structure with WKI M6x16 screws – 4 pcs.



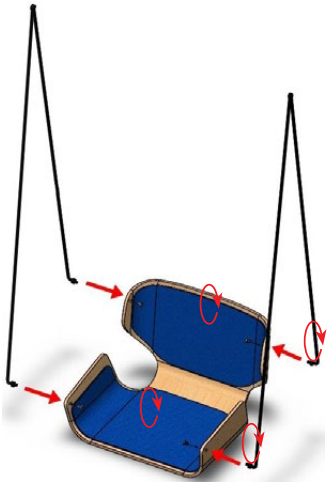




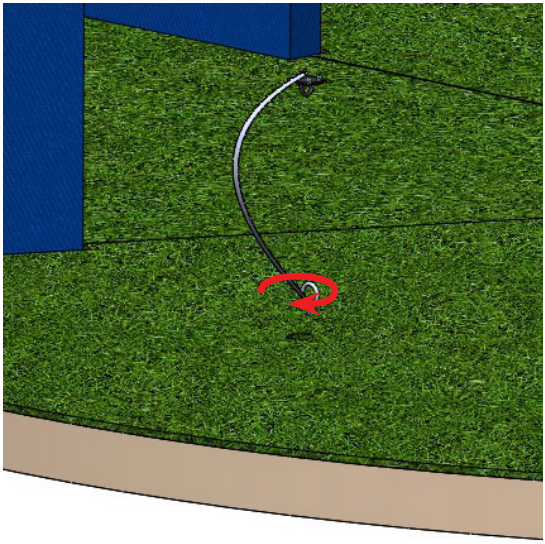
14. Screw the slings in the upper constructions.



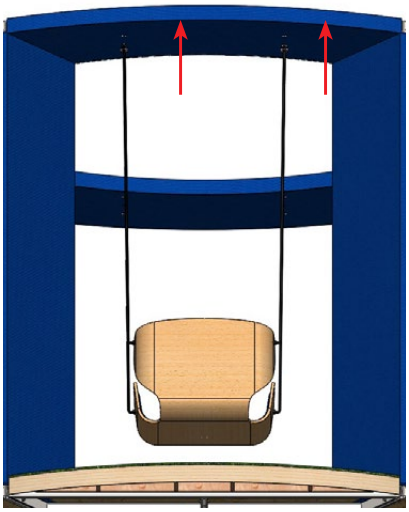
15. Insert the rods into the buckets and screw with WKI 8x16 screws.

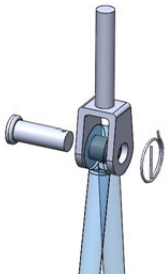


16. Screw the belt to limit bucket movement to the ground.

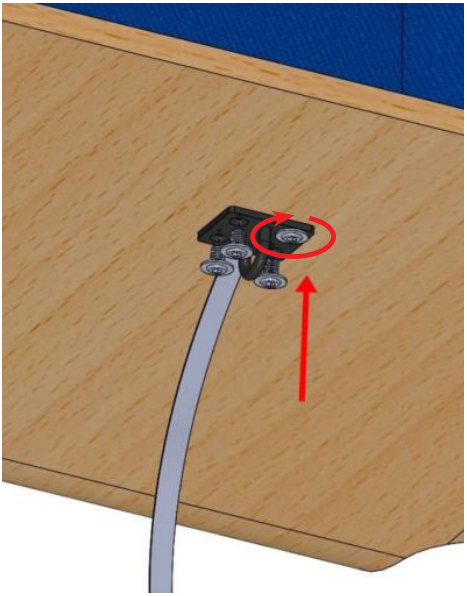


17. Attach the rods with the bucket to the slings, secure with a metal ring.

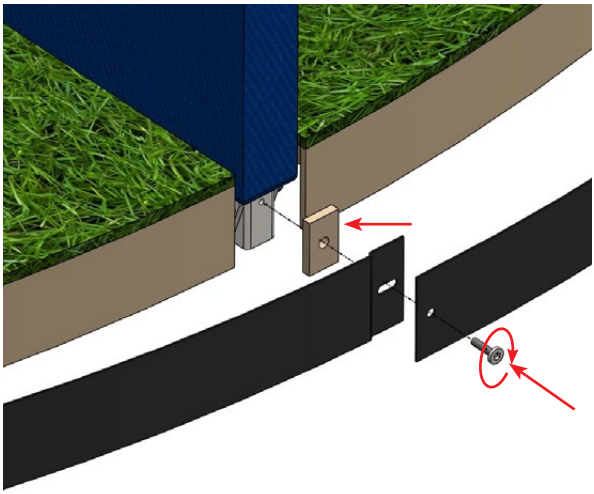


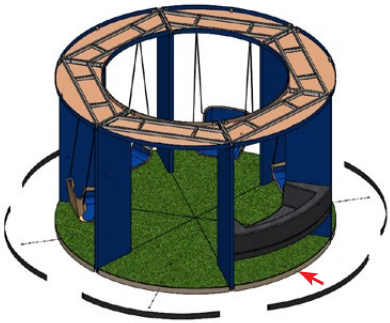


18. Screw the second side of the limiting strap to the bottom of the bucket - WKI M6x16 (4 pieces for each bucket).

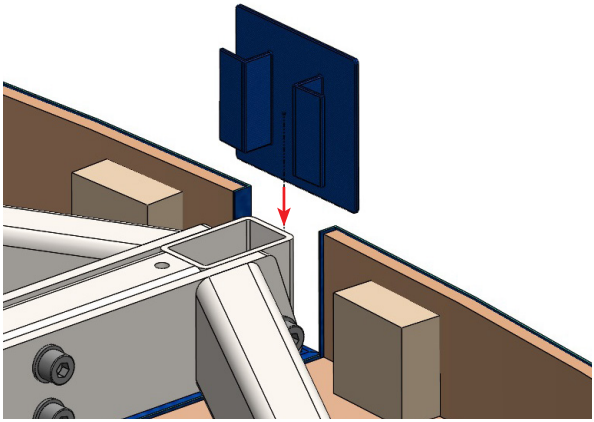


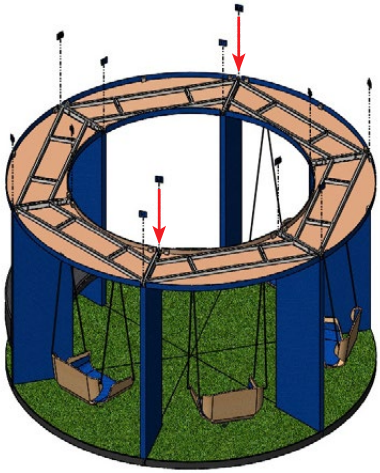
15. Apply a wooden Block spacer to the vertical structure in the designated 6 places. Apply the sheet-bolt, screw with black WWI M6x25 screws.



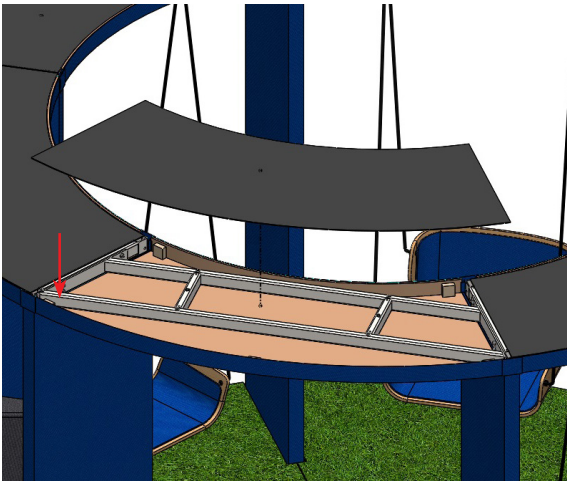


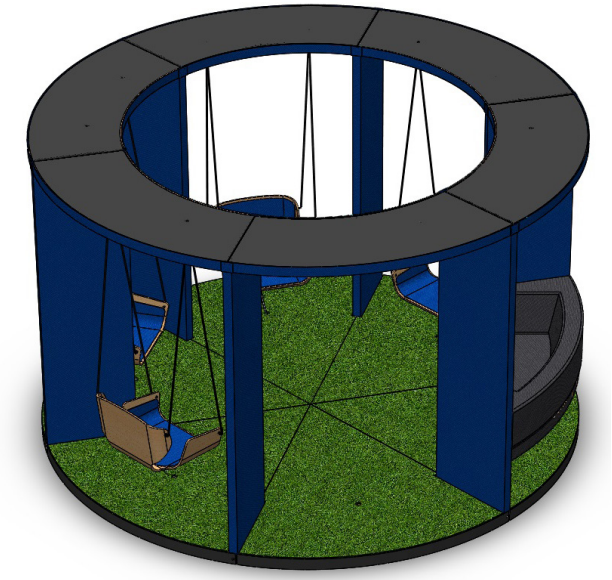
16. Insert the top end caps.





17. Place the masks on top.





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