

moovife

**Development and
rehabilitation
blocks for children**



B A F F I N[®]

Proudly presents

moov*ie*

**Development and
rehabilitation
blocks for children**

Our daughter Sophie is a smiling, happy little girl who is always energetic and loves singing, dancing, and being with her friends. But I always worried about the future for Sophie when she was younger.

Sophie was born on time and there was no indication that our daughter would ace any developmental problems, which gradually surfaced in the following weeks, months and years. One of the very first things we noticed was her eating. She rejected the taste of a dummy and formula milk. Another one was her hypersensitivity to light and unfamiliar sounds. Despite these challenges, she was a joyful and calm child until sleep issues began to appear.

She was crying with her eyes closed, was very restless and had episodes which resembled seizures often associated with epilepsy.

At the same time, there were problems of a physiological nature, probably due to impaired proprioception and bathyanesthesia.

Simultaneously it was noticeable that Sophie had a shallow pain threshold (hypersensitivity). She loved to squeeze and bite everything and everyone; intuitively, she demanded strong hugs, squeezing, kneading and massaging. While playing, when she hit herself or fell, she never cried and was very rarely upset. It was as if she was not aware of what had happened. Despite not communicating very much, Sophie always enjoyed any form of physical movement, either on her own or with other people. We also noticed that she did not respond to her name.

Seeing her needs related to movement and strong hugs, a sensory playground was created for her in the apartment. Her dad installed a giant swing on which she would spin, hang upside down, and sometimes even sleep. He also built a suspension system on which toys, balls and stretching tapes were fastened. In addition, there were mattresses, pillows, and rollers on the floor so she could safely climb and jump. After a session of physical activity, she calmed down and relaxed.

Later, it turned out that we unconsciously used elements of sensory integration therapy, i.e. rehabilitation through play. We acted intuitively, improving our daughter's gross motor skills, and this certainly helped Sophie.

After an evaluation at the Physiotherapy Centre, we found out that Sophie's brain processes the information provided by the senses in an unorganised manner (sensory processing disorders). The proprioception disorders shown in the tests partly explained the problems with speech. In addition, the analysis of behaviour suggested possible autism.

Our daughter used a dozen or so words typical for children her age, i.e., mum, dad, Daniel (older brother), drink, though, hello, give and a few others. She showed no desire or need to expand her vocabulary. She communicated with her family with her hands: showed objects, brought specific things and acted out scenes. The movement was the most important thing in her life. She could show everything, even tell a fairy tale or a movie.

Sophie entered the local nursery at the age of three with a sensory impairment diagnosis. The first year was challenging, but each week and month brought positive changes. When Sophie left the nursery, she was referred for examination at a specialist clinic.

There is now virtually no sign of any autistic-like behaviour and her speech problems were diagnosed as motor aphasia, and Sophie sees a speech therapist at her SEN school. Sophie loves movement and attends dance classes. She has also been learning to ride a horse for several years and enjoys swimming.

Sophie also enjoys drawing and painting, sings beautifully, and is very empathetic and friendly. Sophie's development was and still is irregular, with long gaps between positive advances. Despite this, she keeps moving forward.

The long road we have been through as a family, looking for the causes of Sophie's condition, prepared us as we learnt more about her world.

The information collected and the observations and knowledge I gained enabled me to design the MOOVIE rehabilitation blocks. Using them for fun and rehabilitation helped Sophie open up to us and the outside world, and I hope they will help many other children in the same way.



1. THE REHABILITATION SETS OF MOOVIE

The MOOVIE developmental and rehabilitation toy consists of two sets of blocks: a large MOOVIE 23 and a small MOOVIE 15. When folded, they form the shape of a cylinder with the following dimensions: the first (23-element) Ø1080 mm, height 480 mm, the second set (15-element) Ø900 mm, height 300 mm.

Both sets can be connected in the same way as a jigsaw and this enables children to build various structures, which can help improve their motor skills, spatial planning and awareness and hand-eye coordination.

Assembling the jigsaw system is intuitive and gives a sense of satisfaction. The uniform colour helps children to calm down and focus on exercise and when both sets are used together it opens up a world of possibilities for more children as it can then be used by larger groups.

MOOVIE: the rehabilitation sets:

- a modular structure - elements are easy to connect and disconnect
- a minimum dimensions when folded and a maximum variety of games and exercises when unfolded
- a minimum amount of colour stimuli and easy to clean
- resistant to atmospheric conditions and negative UV light
- made of durable, certified materials (closed- cell polyethylene foam WU 45 XPE)
- the products meet the requirements of a medical device

- CE declaration available
- Registered utility model: nr W.124682

The products meets the Oeko-TEX Standard 100, Product class 1.

2. MOOVIE FOR CHILDREN

The MOOVIE has been designed to support children with changes in the functioning of the central nervous system. It is intended for use in occupational therapy sessions by children with sensory motor disorders as early rehabilitation and intervention in the form of targeted play can really make a difference.

3. MOOVIE WITH CHILDREN

The MOOVIE rehabilitation toy is designed to provide general development support for children, including:

- improving fine and gross motor skills
- strengthening the nervous system through movement
- developing and maintaining good balance, posture and spatial cognition
- developing motor-auditory-visual perception
- peer group integration

4. MOOVIE FOR FACILITIES

The large MOOVIE set can be used in spacious rooms such as a gym, nursery rehabilitation room, hospital, school common room or playroom. The small set is designed for smaller rooms such as an apartment, a small rehabilitation room or a common room in a children's hospital. Both sets can also be used in an outdoor environment.

We believe that speech is silver, silence is golden, but the movement is PLATINUM.



Eva and Greg - Parents of Sophie and Inventors of MOOVIE

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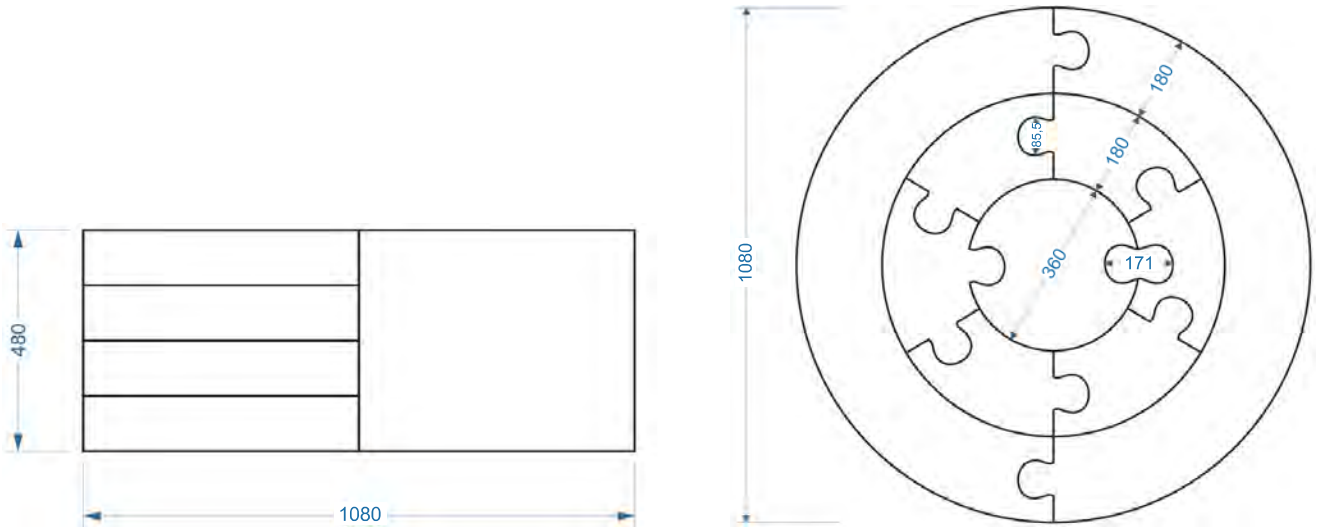


S

sets of blocks

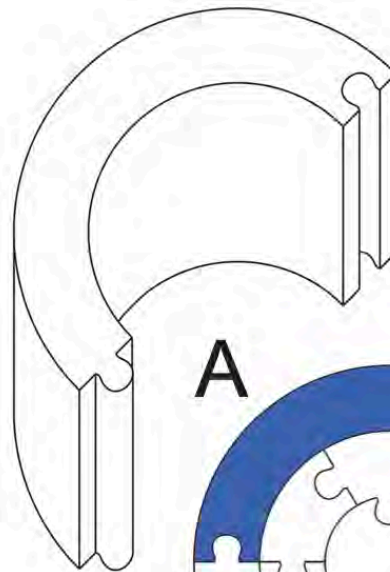
MOOVIE 23

Large set of rehabilitation blocks consisting of 23 parts.

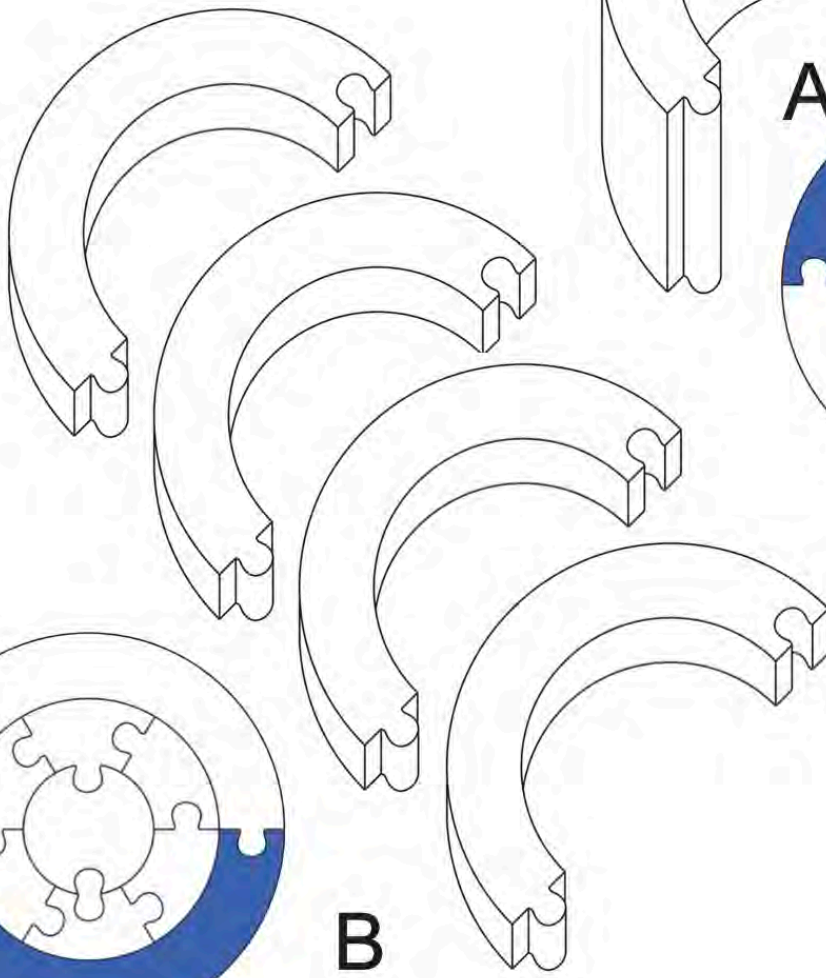


Element A

1/2 of the external ring of the cylinder 1 piece., h. 480 mm



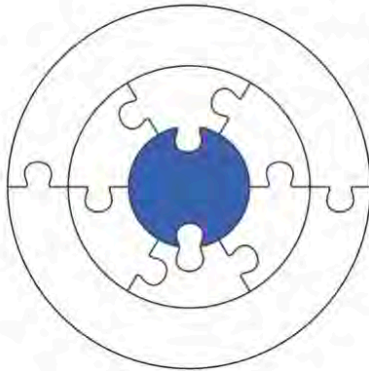
A



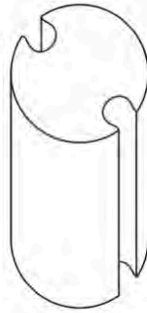
B

Element B

1/2 of the external ring of the cylinder 4 pieces., h.120 mm



C

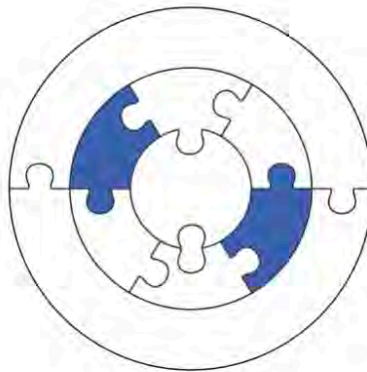


Element C

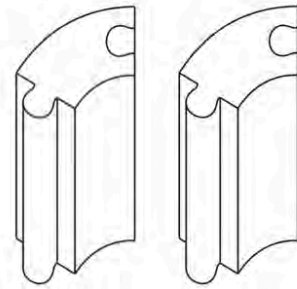
The core cylinder 1 piece., h. 480 mm

Element D

1/6 of the middle ring of the cylinder 2 pieces., h. 480 mm.



D



Element E

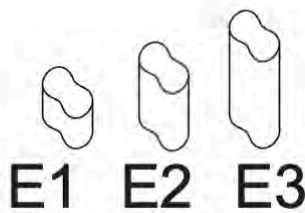
Figure eight connector 3 pieces.

E1 - h. 80mm

E2 - h.160mm

E3 - h. 240 mm

E



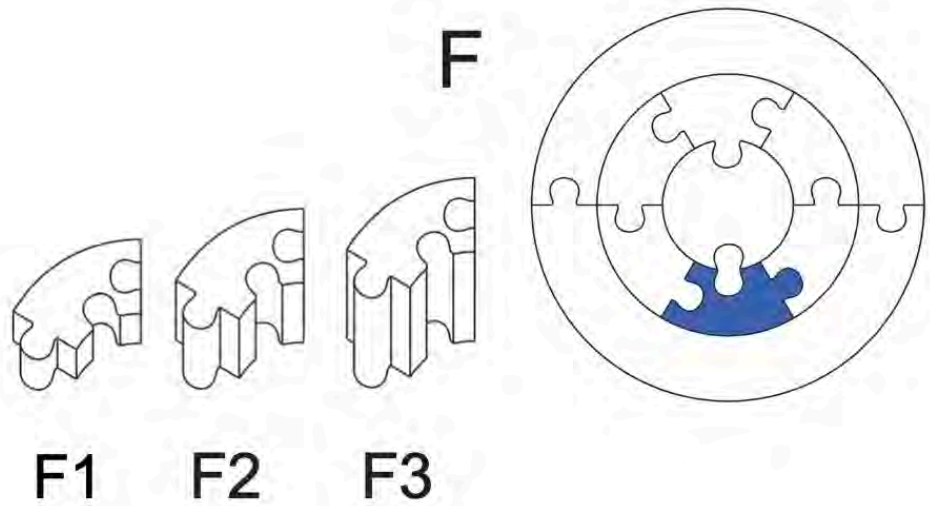
Element F

1/6 of the middle ring of the cylinder 3 pieces.

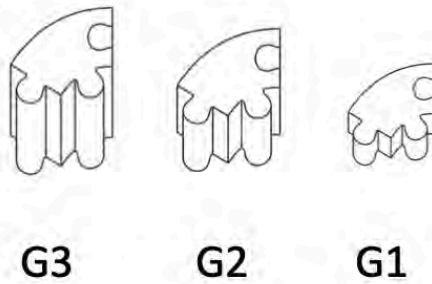
F1 - h. 80 mm

F2 - h. 160 mm

F3 - h. 240 mm



G



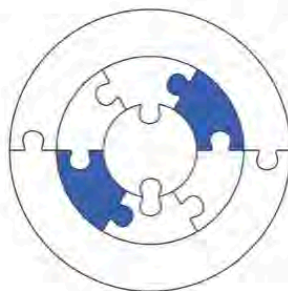
Element G

1/6 of the middle ring of the cylinder 3 pieces.

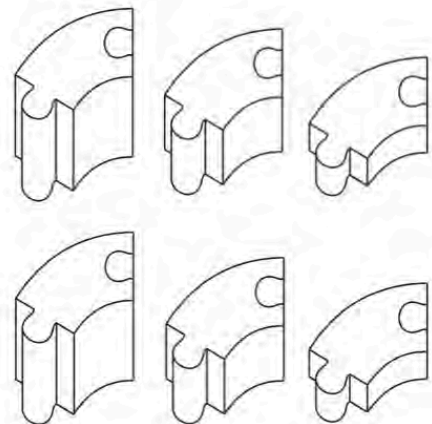
G1 - h. 80 mm

G2 - h. 160 mm G3 - h.

240 mm



H



Element H

1/6 of the middle ring of the cylinder 6 pieces.

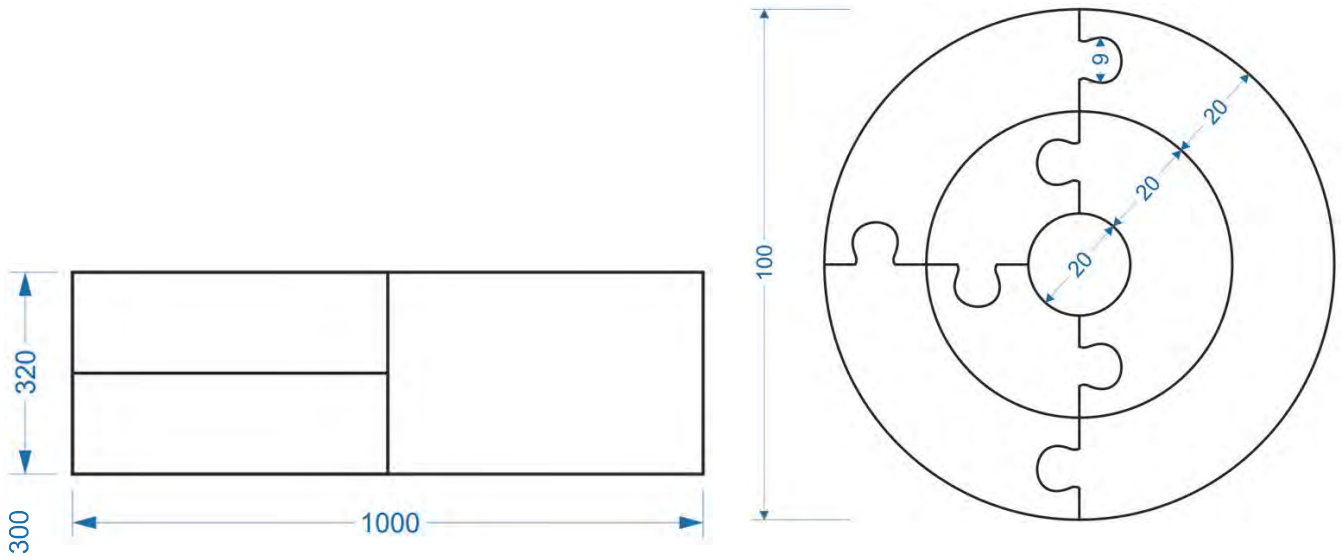
H1 - 2 pieces. h. 80 mm

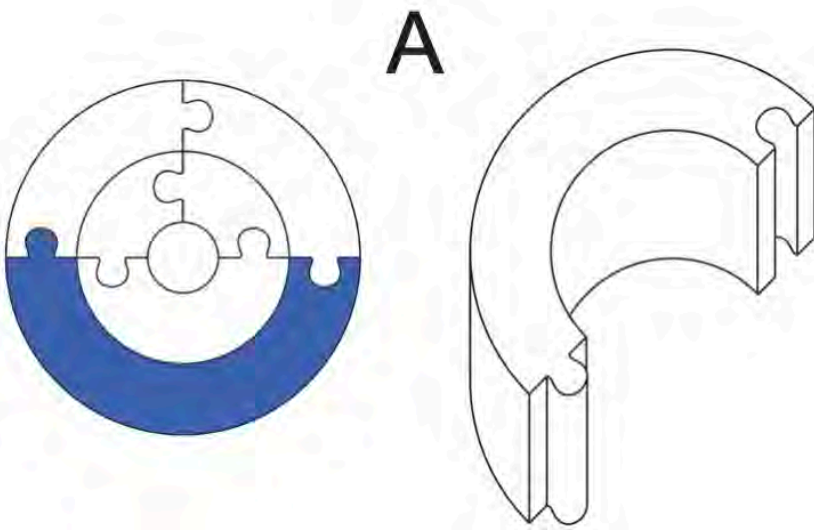
H2 - 2 pieces. h. 160 mm

H3 - 2 pieces. h. 240 mm

MOOVIE 15

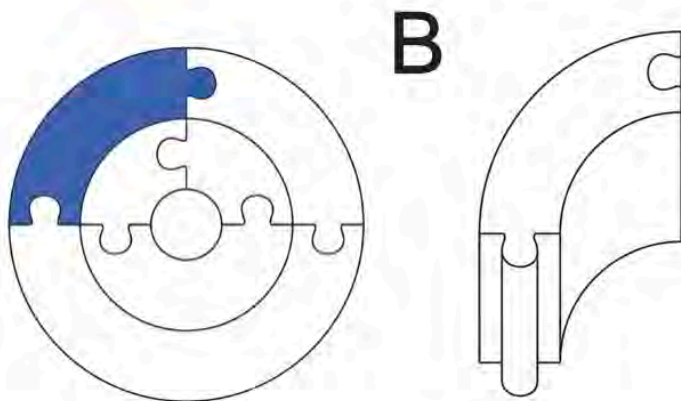
A small set of rehabilitation block consisting of 15 elements





Element A

1/2 of the external ring of the cylinder
1 piece, h. 300 mm

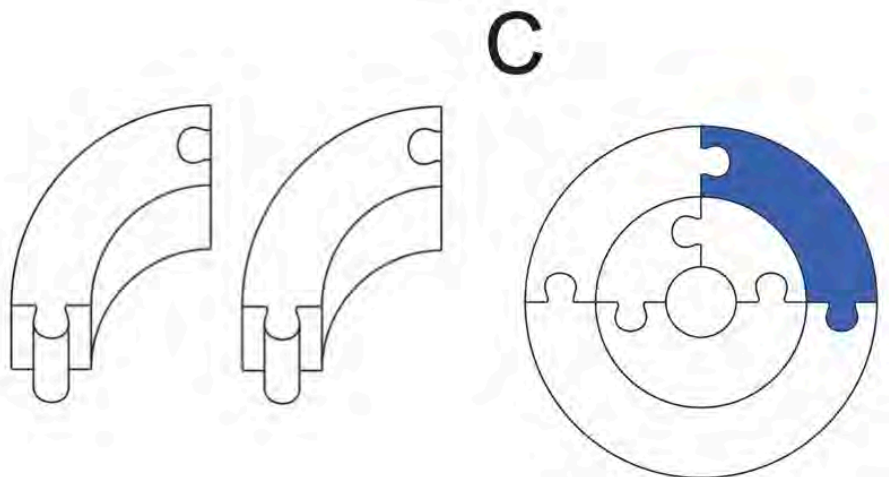


Element B

1/4 of the external ring of the cylinder;
1 piece.; h. 300 mm

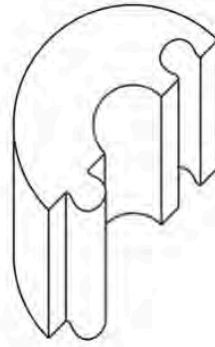
Element C

1/4 of the external ring of the cylinder 2 pieces., h. 150 mm

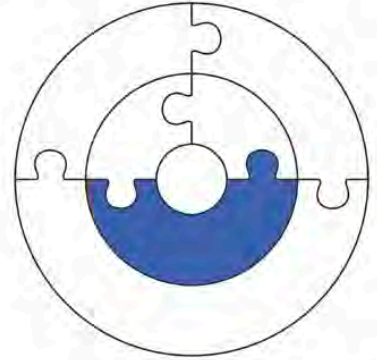


Element D

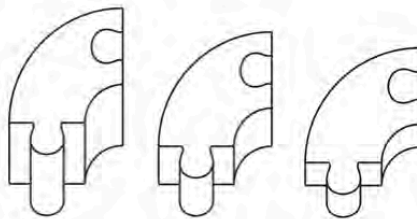
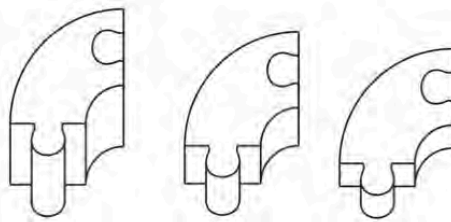
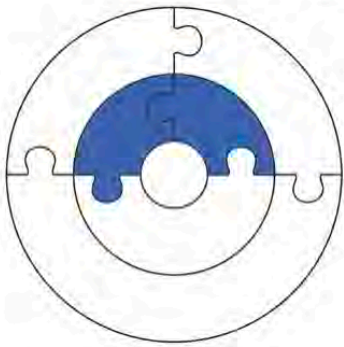
1/2 of the internal ring of the cylinder; 1 piece., h. 300 mm



D



E



E3

E2

E1

Element E

1/4 of the internal ring of the cylinder; 6 pieces.,
E1 - 2 pieces. h. 50 mm
E2 - 2 pieces, .h. 100 mm
E3 - 2 pieces. h. 150 mm

Element F

The core cylinder 3 pieces.

F1 - 2 pieces. h. 50 mm

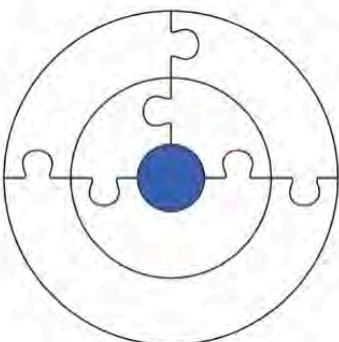
F2 - 2 pieces h. 100 mm

F3 - 2 pieces. h. 150 mm

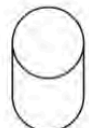
exchangable

F4 - 1 piece., h. 300

F



F1



F2



F3



F4

S

Sets of exercises

1. THE CHIMNEY

Goal: building a dynamic pattern of smooth movements as the child climbs up and over into the chimney to help increase their balance skills.

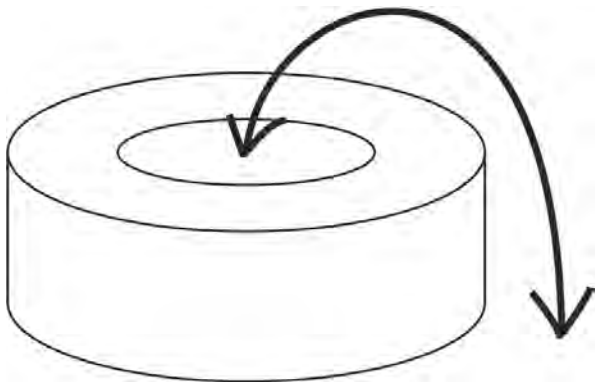
Exercise: entering and exiting the roller while maintaining balance by using various muscles and joints.

Outcome: improvement of balance, hand-eye coordination, general movement, balance-carrying and maintaining body balance.

MOOVIE 23

Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece, h. 480 mm,
B - 1/2 of the external ring of the cylinder, 4 pieces, h. 120 mm.



2. THE CYLINDER

Goal: To improve hand-eye coordination and motor planning (praxis) along with balance by strengthening the paraspinal muscles. Maintaining postural stability and correct foot load while walking.

Exercise: Walking around the circumference of the cylinder hoop while maintaining balance.

Outcome: Maintaining the best possible posture while walking with the correct pressure on each foot. Developing motor coordination and feeling the position of individual body parts in space while improving the sense of balance which helps to overcome gravity anxiety.

MOOVIE 23

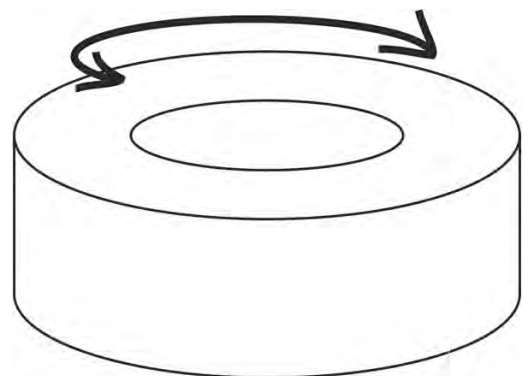
Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece., h. 480 mm,
B - 1/2 of the external ring of the cylinder, 4 pieces., h. 120 mm.

MOOVIE 15

Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece, h. 320 mm,
B - 1/4 of the external ring of the cylinder 1 piece, h. 320 mm,
C - 1/4 of the external ring of the cylinder, 2 pieces., h. 160 mm.



3. THE HOOP

Goal: To improve hand-eye coordination and motor planning (praxis) along with balance by strengthening the paraspinal muscles. Maintaining postural stability and correct foot load while walking.

Exercise: Walking around the circumference of the cylinder hoop while maintaining balance.

Outcome: Maintaining the best possible posture while walking with the correct pressure on each foot. Developing motor coordination and feeling the position of individual body parts in space while improving the sense of balance which helps to overcome gravity anxiety.

MOOVIE 15

Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece., h. 320 mm,

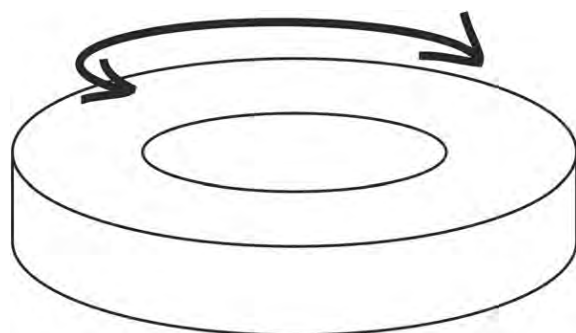
B - 1/4 of the external ring of the cylinder 1 piece, h. 320 mm,

C - 1/4 of the external ring of the cylinder 2 pieces., h. 160 mm.

MOOVIE 23

Elements applied:

B - 1/2 of the external ring of the cylinder, 4 pieces., h. 120 mm.



4. THE BARREL

Goal: To improve motor planning by improving muscle tone throughout the body. This is achieved by using the rotating elements of the movement to roll in the barrel.

Exercise: the child sets the barrel in motion by rotating their own body.

Outcome: intensive stimulation of the vestibular system, and improvement of muscle tone throughout the body.



MOOVIE 23

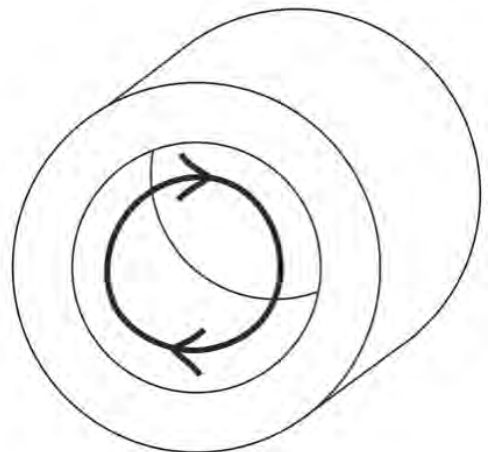
Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece., h. 480 mm,
B - 1/2 of the external ring of the cylinder, 4 pieces., h. 120 mm.

MOOVIE 15

Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece., h. 320 mm,
B - 1/4 of the external ring of the cylinder, 1 piece, h. 320 mm,
C - 1/4 of the external ring of the cylinder, 2 pieces., h. 160 mm.



5.THE ROCKING HORSE

Goal: To improve the sense of balance by stimulating the work of the arms and legs, by leaning forward and backwards. This strengthens the postural muscles and stimulates the vestibular system while developing the correct activity of the trunk muscles.

Exercise: The child sits on the cradle (legs on either sides) and moves their body forward and backwards. Feet resting on the ground, the child pushes off with their legs and sets the cradle in motion.

Outcome: Intensive vestibular stimulation, body balancing and strengthening of the muscles of the whole body while developing movement coordination.

MOOVIE 23

Elements applied:

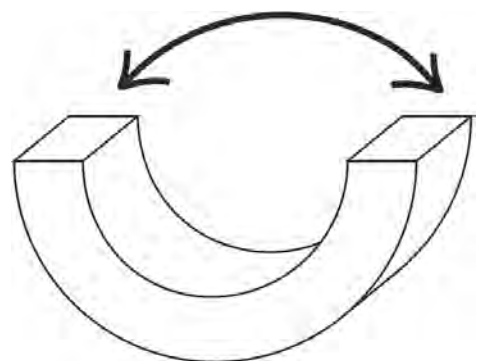
A - 1/2 of the external ring of the cylinder 1 pieces., h. 480 mm,

B - 1/2 of the external ring of the cylinder, 1 pieces., h. 120 mm.

MOOVIE 15

Elements applied:

A - 1/2 of the external ring of the cylinder, 1 pieces, h. 320 mm.



7. THE CAVE

Goal: perfecting the coordination of the whole body and individual parts by arranging the elements of the block (closer-farther, straight-arc). They develop general fitness by taking different positions during exercise and improving alternating movements.

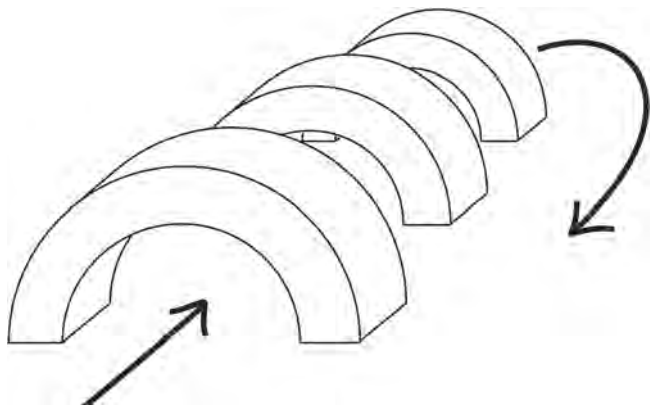
Exercise: from a crouching position, go to crawling and then crawl forward and backwards, in a straight line and with a change of direction, if the elements of the block form an arc or S.

Outcome: activation of muscles and joints. Improving flexibility which helps child to exercise and position their body to ensure they do not knock over any of the blocks while maintaining a good posture.

MOOVIE 15

Elements applied:

A - 1/2 of the external ring of the cylinder, h. 320 mm.



MOOVIE 23

Elements applied:

A - 1/2 of the external ring of the cylinder, h. 480 mm,

B - 1/2 of the external ring of the cylinder, 4 pieces., h. 120 mm,

C - internal cylinder, h. 480 mm,

D - 1/6 of the internal ring of the cylinder, 1 piece., h. 480 mm,

E2 - figure eight connector, 1 piece., h. 160 mm,

G2 - 1/6 of the internal ring of the cylinder, h. 160 mm,

G3 - 1/6 of the internal ring of the cylinder, h. 240 mm ,

H2 - 1/6 of the internal ring of the cylinder,

8. THE TUNNEL

Goal: To develop and enhance the coordination of the whole body and individual parts, by arranging the blocks in different ways such as close together, far apart, in a straight line or an arch. The child develops general fitness by adopting various postures during the exercise and perfecting alternating movements.



Exercise: crawling on all fours or moving forward and backwards in a straight line and changing direction if the block elements form an arc or S.

Outcome: by correctly positioning their body to ensure they don't touch the blocks, the child improves their flexibility and dexterity.

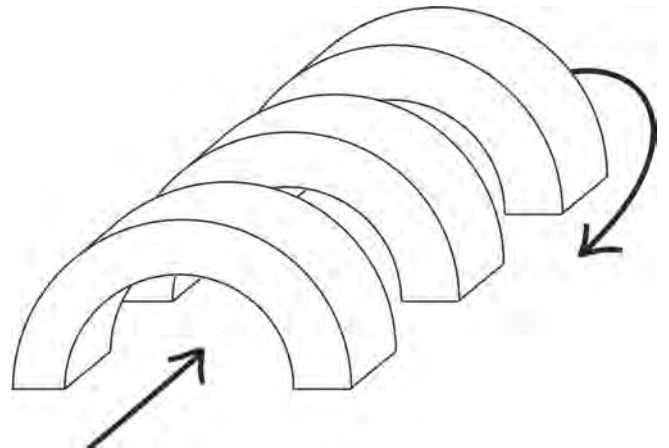


MOOVIE 23

Elements applied:

A - 1/2 of external ring of the cylinder,
h. 480 mm,

B - 1/2 of external ring of the cylinder, 4
pieces., h. 120 mm.



9.PLAYGROUND SLIDE

Goal: To improve the sense of balance by changing the position and direction of shoulder movement stimulation.

Exercise: Move by pulling up with arms in front, turning at the top to the crab walk position. Leg extension and slide.

Outcome: improvement of balance, hand eye coordination, balance-carrying and strengthening gravity confidence during changes in head and body position.



MOOVIE 23

Elements applied:

A - 1/2 of the external ring of the cylinder, h. 480 mm,

D - 1/6 of the internal ring of the cylinder 2 pieces, h. 480 mm,

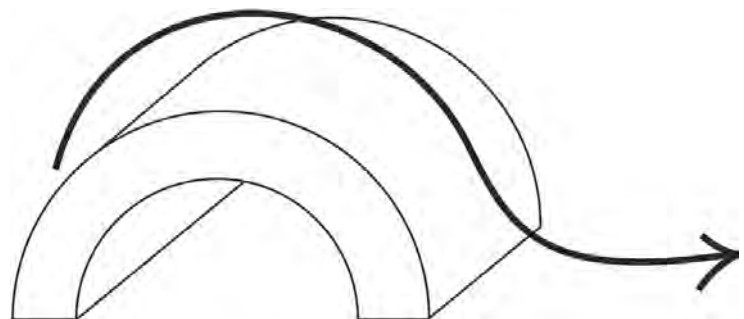
H1 - 2 pieces. h. 80 mm, H2 - 2 pieces. h. 160 mm, H3 - 2 pieces. h. 240 mm.

MOOVIE 15

Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece., h. 320 mm,

D - 1/2 of the internal ring of the cylinder, h. 320 mm



10. STAIRS

Goal: To improve hand eye coordination by shaping the musculoskeletal stabilization of the spine and stimulating the sense of balance. Alternate movements to work on both cerebral hemispheres.

Exercise: walking up the stairs in a circle.

Outcome: The correct positioning of the child's body by maintaining the correct posture during exercises while developing hand-eye coordination and a sense of balance through different movements. Strengthening gravity confidence during changes in the position of the head and body.



MOOVIE 23

Applied elements in the order of arrangement:

C - internal cylinder, h. 480 mm,

D - 480 mm,

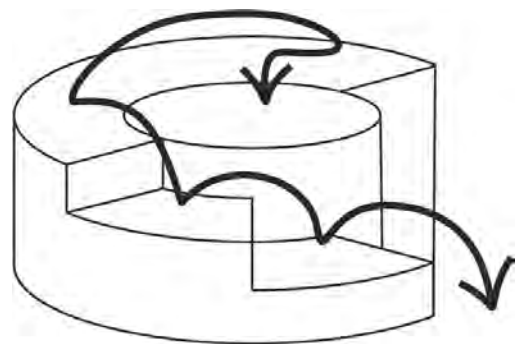
F2 - 160 mm, E3 - 240mm,

F3 - 240mm,

E2 - 160 mm, H1 - 80 mm, H3 - 240mm,

H3 - 240mm,

G2 - 160 mm, H1 - 80 mm.



11. THE COBBLESTONE – PATH

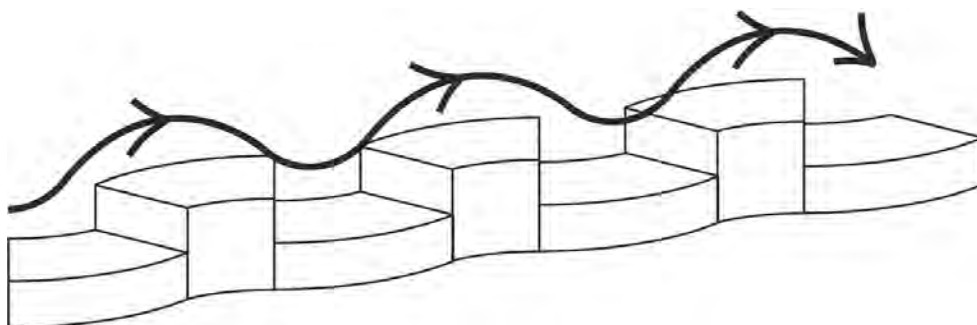
Goal: Improve the sense of balance and Hand-eye coordination, through exercises that stimulate the sense of balance by using flexibility and dexterity to help overcome the fear of falling.

Exercise: Step by step movement with changes in direction and height.

Outcome: Improved balance, movement, hand-eye coordination.

MOOVIE 23, MOOVIE 15

The set of parts needed to build the path is selected according to the level of mobility of the child



12.THE WELL – HITTING THE TARGET

Goal: A range of exercises to develop and increase hand and arm dexterity, motor planning (praxis) and hand-eye coordination.

Exercise: Throwing an object at a target.

Outcome: reducing dyspraxis



MOOVIE 15

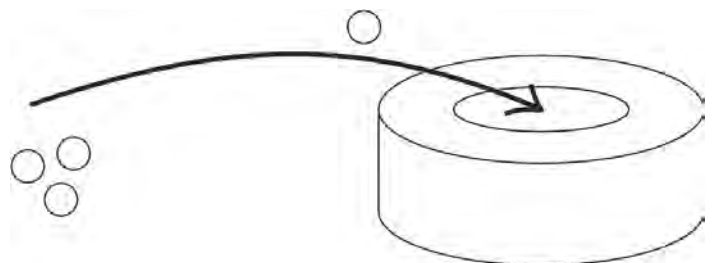
Elements applied:

A - 1/2 of the external ring of the cylinder, 1 pieces., h. 320 mm,
B - 1/4 of the external ring of th; cylinder, 1 pieces., h. 320 mm,
C - 1/4 of the external ring of the cylinder, 2 pieces., h. 160 mm, F1 - 2 pieces. h. 60 mm,
F2 - 2 pieces. h. 100 mm.

MOOVIE 23

Elements applied:

A - 1/2 the external ring of the cylinder, 1 piece., h. 480 mm,
B - 1/2 the external ring of the cylinder, 4 pieces., h. 120 mm,
E1 - h. 80 mm, E2 - h. 160mm,
E3 - h.240mm.



13. THE CRADLE - A CALMING EXERCISE

Goal: Helping a child relax after intense physical effort and stimulation of the vestibular system.

Exercise: The child can sit or lie on the cradle as it gently rocks back and forth.

Outcome: Muscle rest, heart rate reduces and general relaxation



MOOVIE 23

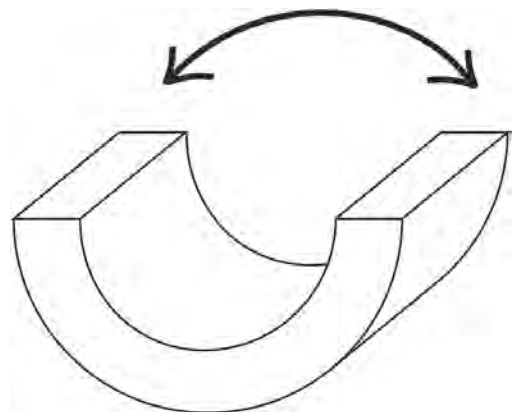
Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece,
h. 480 mm.

MOOVIE 15

Elements applied:

A - 1/2 of the external ring of the cylinder, 1 piece.,
h. 320 mm.



14. ACTIVE PATH

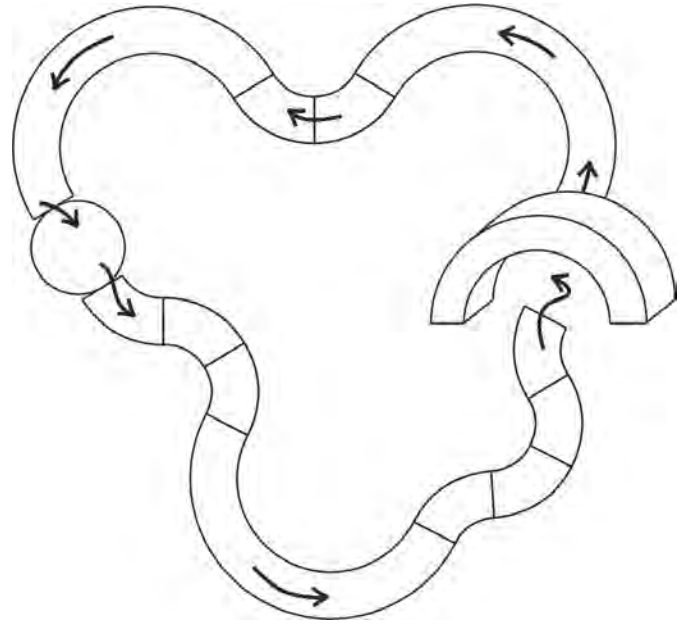
Goal: General support of a child's physical development

Exercise: themed games with a tutor - arranging a story for the layout of blocks.

Outcome: All round improvement of motor skills and coordination.

MOOVIE 23, MOOVIE 15

A path is built to meet the needs of the child depending on their level of mobility motor skills and independence



15.FITNESS TRACK

Goal: To improve the agility, coordination, flexibility and motor planning.

Exercise: Use a course with a change of direction and an under/over obstacle.

Outcome: Improvement of motor coordination, motor planning and agility.

MOOVIE 23

Elements applied:

D - 480 mm,

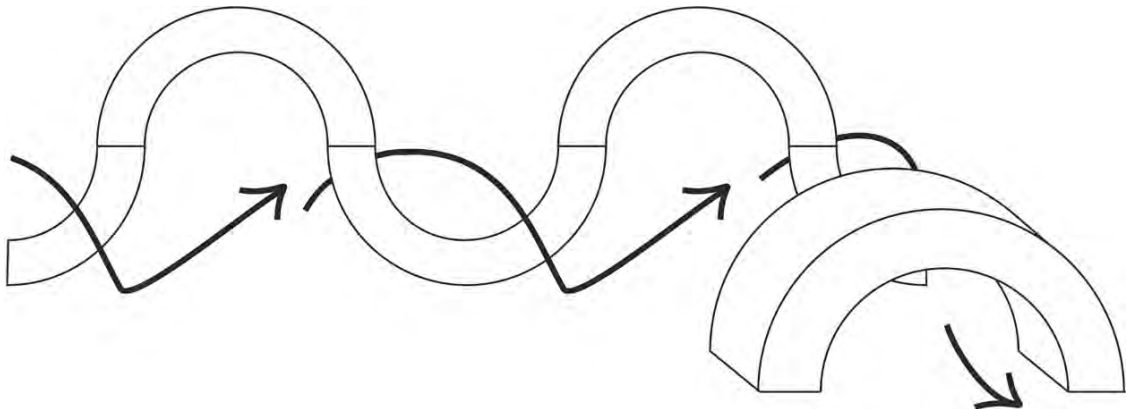
B - 120 mm,

G2 - 160 mm,

H3 - 240mm,

H2 - 160mm,

B - duplicated layout of





moovife



B A F F I N
YOUR SECOND SPINE®

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