

ROX Climbing Structures

HAGS[®]
Inspiring all generations

Why is climbing good?

Climbing is one of the best ways to stay active for both children and adults.

In addition to running, hopping, jumping and throwing; climbing is a fundamental form of human motion.

Climbing can help enhance:

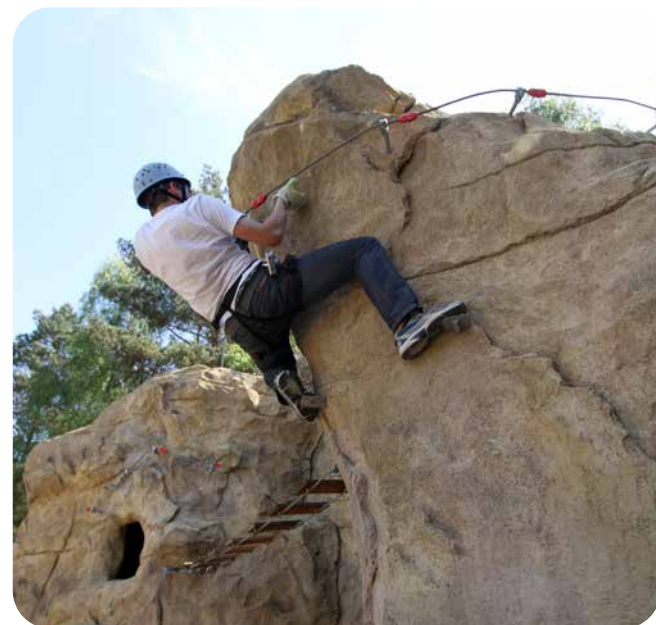
- Strength
- Stamina
- Mobility
- Coordination (especially balance & orientation)
- Concentration
- Judgement in risk-taking
- Confidence
- Team building & leadership



Physical Development

Climbing is a great exercise as it engages muscles from all over your body, giving you a full body workout.

- Helps increase cardiovascular fitness
- Enhances balance, coordination, and flexibility
- Assists in muscle strength and endurance
- It's a part of your aerobic and anaerobic activity
- Improves motor planning
- Enhances body awareness



Why rock climb?

Looking for an activity that gives you a complete mental and physical boost? Look no further than rock climbing!

This sport pushes you to your limits and gives you a huge sense of accomplishment.

Other than being great for your health, rock climbing is exhilarating. Often, the excitement that you feel when climbing, will mask the fact that you are actually exerting yourself physically.





Social-Emotional Development

Managing our emotions and connecting with others is important throughout our journey in life.

Below is a list of social-emotional skills that climbing can assist with:

- Positive risk taking
- Increased self-confidence and self-reliance
- Enhanced patience, perseverance, courage, will power and self-control
- Meeting challenges
- Stress management
- Awareness of others
- Team play and leadership



Cognitive Development

Climbing helps keep our minds active as it provides opportunities to learn and develop.

Some of the cognitive functioning enhancements that can come from climbing are:

- Problem solving, including the identification of multiple solutions for challenges
- Decision-making and judgment-making opportunities
- Increased focus and concentration
- Visualization and mental imaging
- Following directions and safety rules
- Goal setting exercises



Challenge activities – fun for all

Climbing provides opportunities for teamwork and leadership development for teams and groups.

There are a variety of climbing activities/challenges that can be done on climbing structures – whether it be for individuals or groups/teams.

From these, individuals and teams can:

- Learn to work cooperatively
- Gain trust of self and others
- Increase self-confidence and willingness to take positive risks
- Develop their leadership skills
- Enhance their interpersonal communication skills (listening, speaking, and writing)
- Increase their creative problem solving skills



Climbing should be for everyone

Rock climbing can also be great fun for people with physical and/or cognitive limitations.

Rock climbing can help people with:

Sensory disabilities: Touch and visual attention is further helped by the introduction of ROX wall fixings and additional components.

Physical disabilities: ROX climbing structures provide multiple ways to learn and play through a varied range of movement.

Social/Communicative disabilities: Many challenges can involve interaction where activities are led by instructions which helps build on communication skills.

Cognitive disabilities: climbing is a great way to enhance decision making processes which is important as it engages the brain.

Did you know?

Rock climbing can burn between 500 to 900 calories per hour?







HAGS working with X-Move

Partnering with X-Move means our customers get the best climbing structures on the market.

X-Move provide ROX - which is a range of multi-functional sports and fitness climbing rocks that offer the ultimate climbing experience with a natural look and feel.

All ROX products conform to:

- EN 1176 for playground equipment
- EN 12572 for artificial climbing facilities

HAGS & XMOVE

Strategic partnerships enable businesses to bring the best of their talent and strengths forward.

HAGS' collaborative partnership with X-MOVE will:

- Provide some of the best climbing products in the world.
- Encourage people of all ages to be fit and healthy through play and exercise.
- Provide people with something unique.
- Give you structures that are life-like, attractive and fun.



What is ROX?

ROX products are life-like rock structures that are designed for climbing.

They consist of a reinforced concrete wall covered in a coloured and modelled jetcrete layer of 50mm to 150mm thickness. The climbing wall is stabilized by a formed foundation base making each element self-supporting.

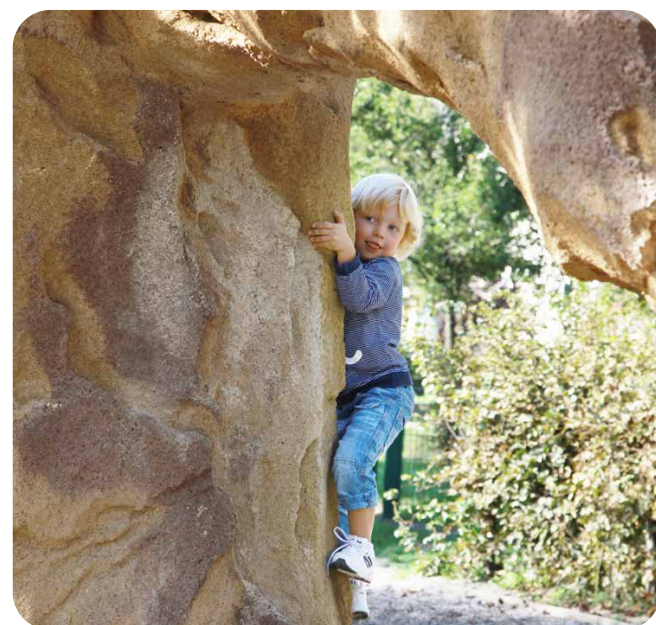
- They are strong and sturdy
- They are eye-catching and attracts play and exercise
- The colour can be adapted to suit location
- They are low maintenance

Beginners to experts

We believe climbing is for everyone, whether you are just starting out or are familiar with it.

- Beginners can use the climbing hand and footholds that are attached to the surface. These will provide extra confidence and assist with balance.
- Experienced or confident climbers can progress their skills by using only the hand crafted rock finish.

The surface on the products has a relatively rough finish which is ideal for climbing and resembles an almost life-like rock.



Great for outdoor spaces

In combination with the prescribed safety areas and fall protection materials, the ROX climbing facilities are great for installation in:

- Schoolyards
- Municipal playgrounds and green areas
- Leisure and sports facilities

They are also eye-catching and inviting which encourages play and activity.

Experts in design

We are proud to have provided our customers with distinctive climbing structures.

Over the last 15+ years, we have developed and proven our technical abilities with some amazing designs and installations.

When putting together a design, our focus is:

- Optimum usability and functionality
- For all products to be safety compliant
- Strength and durability
- To have attractive aesthetics and to suit all environments
- Low maintenance costs

Guide to HAGS icons



Impact area
EN 1176



Free height of
fall EN 1176



Age guideline



No. of
Users



Assembly time



Accessible



Space needed

Anchoring: **CC** Cast in place
OM Above ground

For more information about product options please visit: www.hags.com

Levels of customisation

We understand that each location will have different demands.

X-MOVE's ROX climbing products can be:

- Individually provided with different surface textures. These come in Limestone, Anthracite, Red-Brown and Sandstone-Yellow.
- Fitted with handles to become more inclusive and assist beginners and children. These can also be coloured to provide clear routes and indicate levels of difficulty for each path to the top.
- Fitted with other accessories such as connection bars and ropes to enhance the play values, just the way you want it.



Fast Installation

Quick and safe installation on the construction site is possible.

As the ROX products are large structures, the key to a quick and safe installation is to ensure access is considered. Here are some basic things to think about:

- There should be access for a heavy-duty lorry for delivery.
- A crane stand should be deployed at a maximum distance of 15m from the settling point.
- Since no sprayed concrete work is carried out on site, protective measures against dust are not necessary and any excess material must be safely disposed of.



Inspection & Maintenance

The ROX structures are generally maintenance-free.

Safety should be paramount. Even though the structures are built to be maintenance-free, inspections should still be carried out. Here are a few things to remember:

- A monthly check is recommended.
- A main inspection should be carried out once a year by a qualified safety officer.
- The stability of the climbing handles, the control of the nets and ropes, including the connections, must be checked.
- The examination of the correct impact absorbing surface, height and the quality of the IAS material must be assessed.





Limestone



Anthracite



Red-brown



Sandstone-Yellow

Design Rock Texture

The ROX climbing structures are available in 4 standard colours and are individually designed.

ROX are available in 4 standard colours:

- Limestone
- Anthracite
- Red-brown
- Sandstone-Yellow

As the products are individually designed by a sculptor and the colour can be chosen, it is possible to create a bespoke design or even imitate rocks from the surrounding area.

Climbing handles

Adding climbing handles is a great way of making the structure more inclusive.

Providing handles not only helps give that extra bit of confidence by supporting the body but can also work as a sensory item to help with climbing. Coloured handles can also be used to mark out a clear route or to distinguish between an easy and difficult route.

All handles are made from high-quality polyurethane resin, they have a high impact and breakage resistance (compared to commercially available handles made of polyester resin). They are also theft resistant as they are anchored and glued into the concrete, providing additional safety.



Enhancing your structure

Having additional attachments can enhance the play experience and make the structure inviting.

Having traditional items such as ropes, nets and bars have always enhanced and added value to the play experience as it provides so many other ways to play. Additional attachments also give a chance for children to use their imagination and play creatively.

Placing these items strategically can also provide varying levels of challenge and help build confidence in those that need it. These additional items can be anchored into the ROX structures and/or into the ground.

Suitable for all ages

We believe that there shouldn't be any age limits when it comes to play.

Although age ranges are provided for safety/ precautionary guidelines, our whole ROX range is:

- Designed so that it can be enjoyed by all.
- Great for adults to help children learn and develop.
- Made for children and adults to play and have fun together.

Promoting exercise and wellbeing

Exercise is important for both mental and physical health. ROX products are designed to provide plenty of exercise through play.

ROX climbing structures:

- Are fun and helps build strength through twisting, turning, swinging, climbing and many other forms of play.
- Encourages children to assess risk which helps build confidence.
- Are ideal for cognitive development through problem solving, use of skill and knowledge.



Material Specification

Climbing Walls

All concrete climbing elements (units) are produced with a concrete strength class of C25/30 and reinforced according to standard DIN 1045. They possess a specially designed climbing surface which has been created by spraying dyed concrete to produce a natural stone effect. Walls can also be backfilled on one side and function as a retaining wall.

The elements meet all the requirements of the standards for playground equipment (EN 1176). The elements carry a guarantee of 5 years with the exception of natural wear and tear. Colour variations in the jetcrete are used to create a natural effect on the surface of the rock.

Ropes, Nets and Tubes

Ropes and nets are constructed of 4 stranded braided cables. The outer strands are coated with a textured, highly abrasion resistant and highly UV resistant polyester yarn (no polypropylene). Aluminium cross connectors are used where ropes interconnect.

The ropes and nets are secured using a specially developed "ROX" stainless steel chain attachment. All steel tubing is either made of hot dipped galvanised steel or stainless steel with end sections sealed.

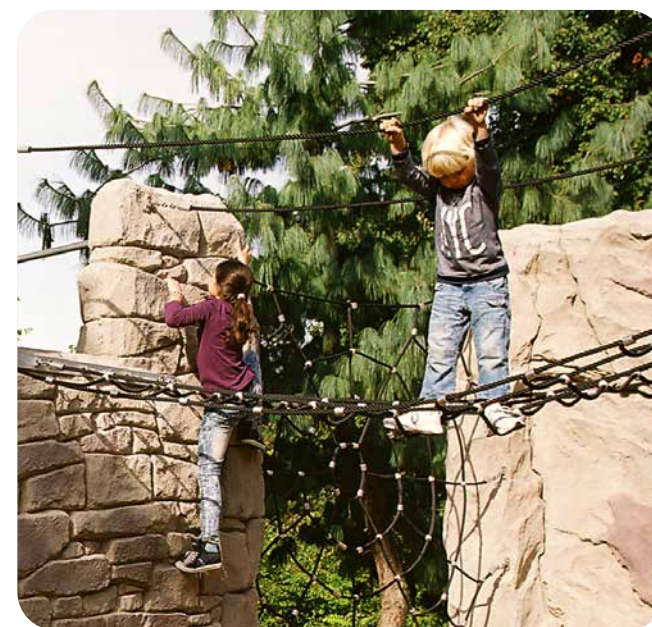


The ROX Product Range

To introduce our fantastic climbing range, we have split the ROX products into 3 main categories.

The ROX climbing range can be seen as:

- Wall & Boulder combinations
- Castles
- Polygonal structures

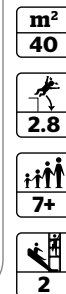


ROX Wall and Boulder combinations

All ROX climbing rocks are individually hand-designed by concrete sculptors.

The designed concrete is solid coloured and the connecting anchors (e.g. for ropes and nets) are installed individually which allows for countless arrangement and design options.

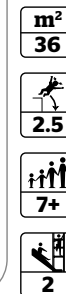
In here you will find a selection of standard climbing combinations. Colour concepts and surface designs can be tailored to specific framework conditions.



Climbing Wall

8080754 CC Yellow

★ 7.20 x 7.20



Climbing Boulder

8080755 CC Yellow

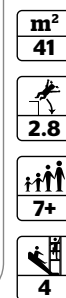
★ 6.60 x 6.10



Double Climbing Wall

8080756 CC Yellow

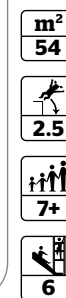
★ 8.80 x 6.30



Rock & Boulder Combination

8080757 CC Yellow

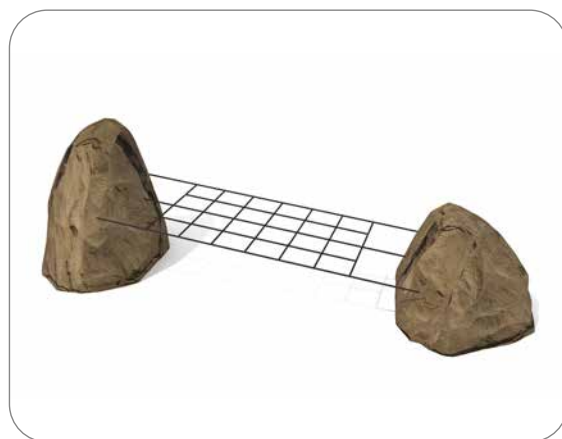
★ 7.20 x 6.30



Climbing Arch

8080758 CC Yellow

★ 9.40 x 6.00



m²
38

1.5

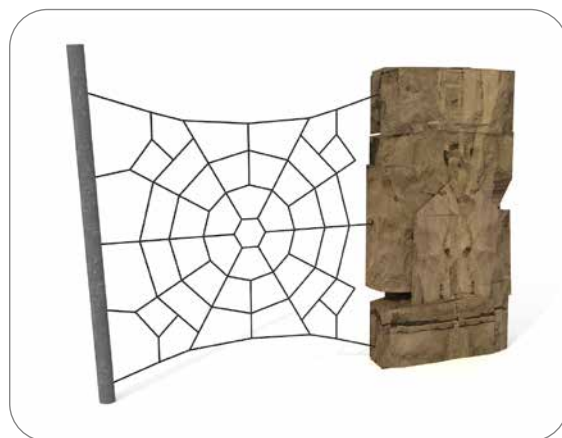
7+

4

Boulder & Net Combination

8080759 CC Yellow

★ 8.80 x 5.30



m²
48.5

2.8

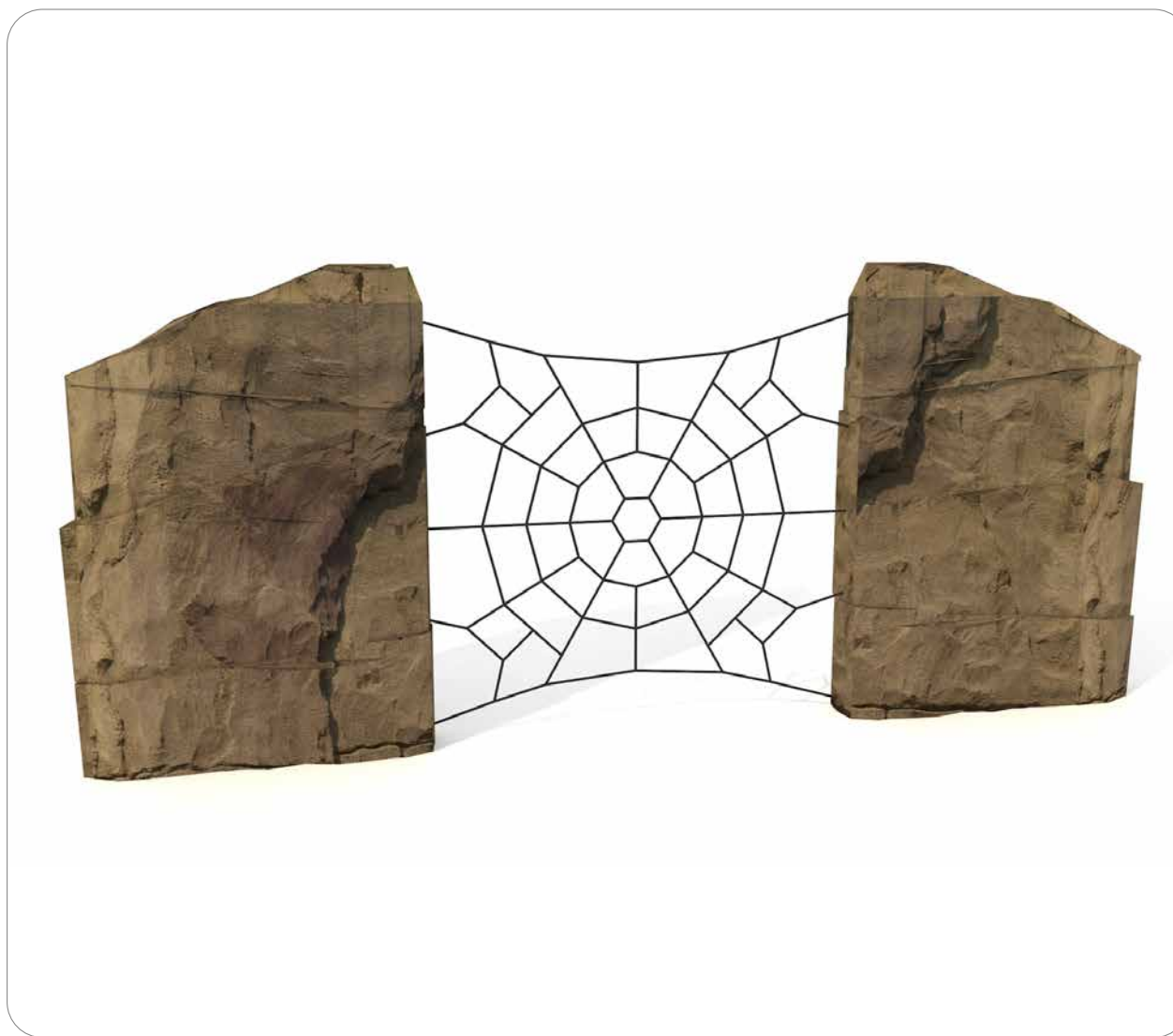
7+

4

Climbing Wall, Post & Net

8080760 CC Yellow

★ 9.10 x 6.40



m²
68.5

2.8

7+

6

0

The Spider Web 1

8080761 CC Yellow

★ 11.50 x 6.40

14 ROX Wall and Boulder combinations



m²
74

2.8

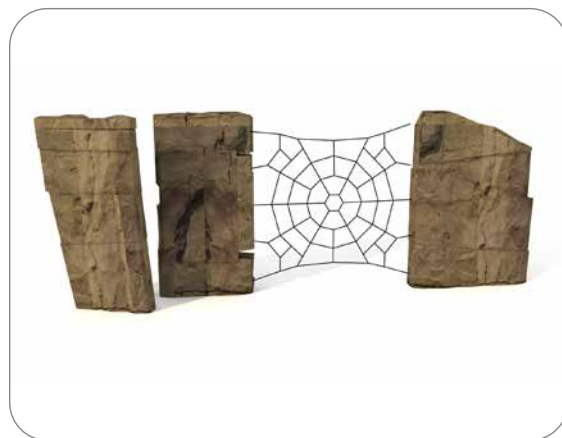
7+

6+

The Spider Web 2

8080762 CC Yellow

★ 12.30 x 7.50



m²
70

2.8

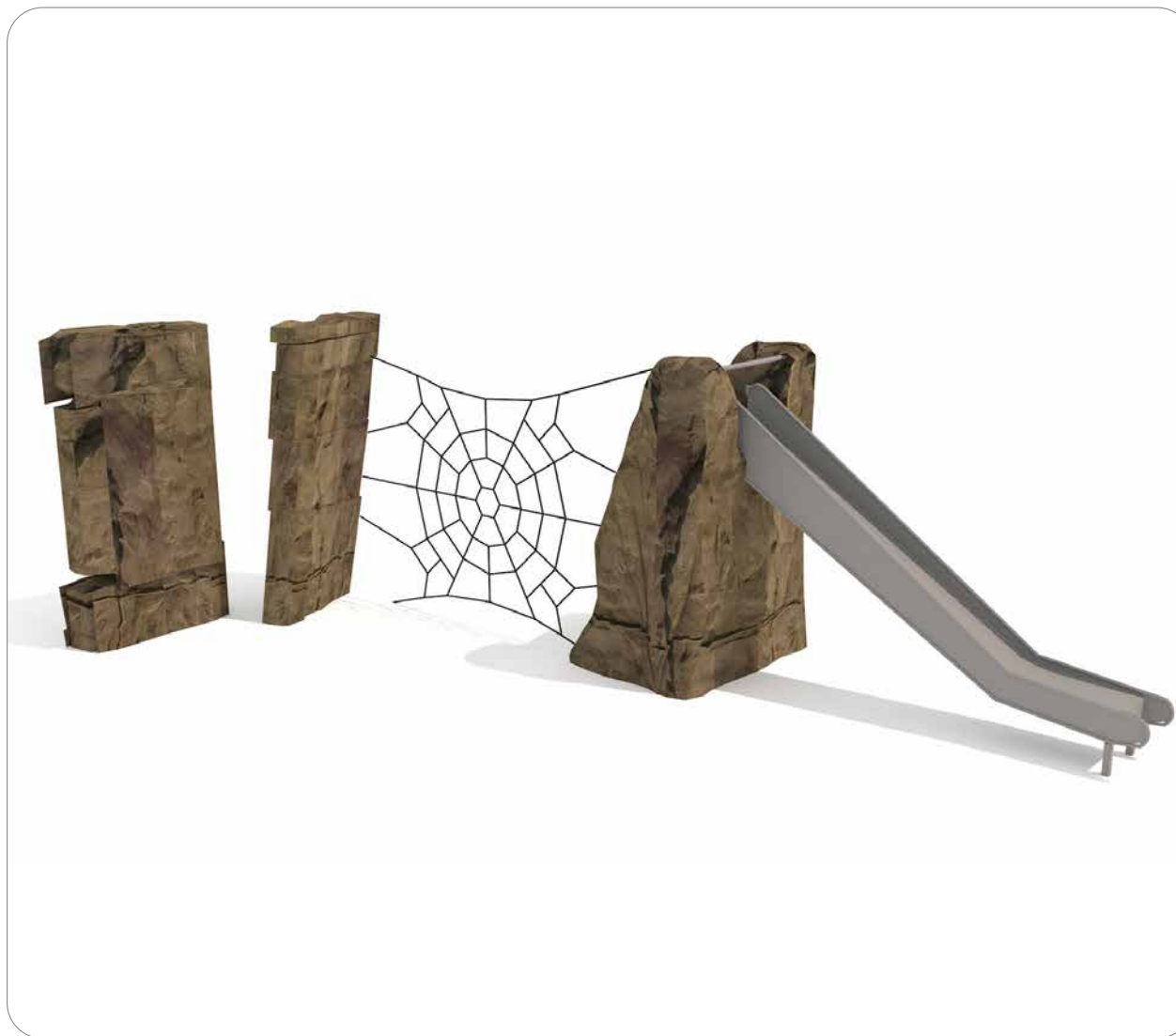
7+

6+

The Spider Web 3

8080763 CC Yellow

★ 11.80 x 6.70



m²
85

2.8

7+

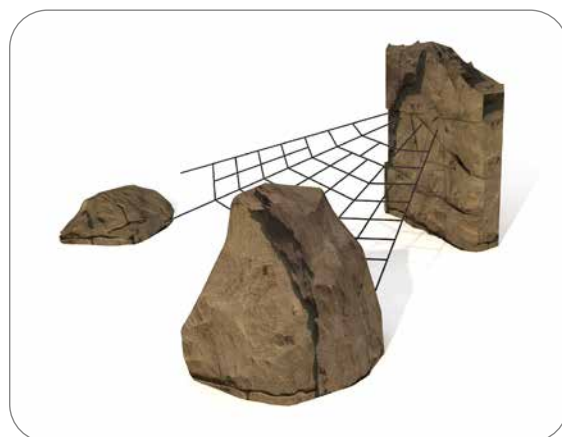
6+

0

The Spider Web 4

8080764 CC Yellow

★ 13.60 x 7.60



m²
63



2



7+

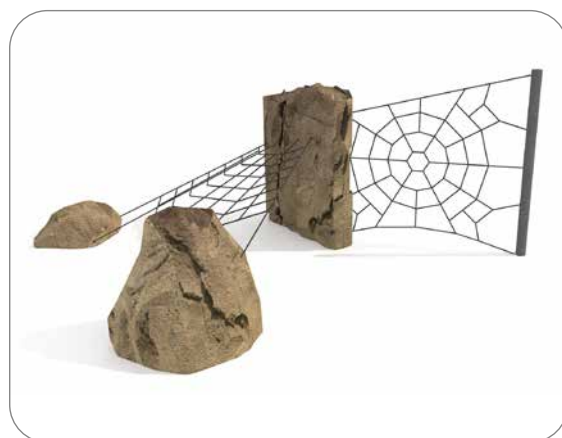


4+

Boulders, Wall & Net 1

8080765 CC Yellow

★ 9.80 x 9.00



m²
72



2.5



7+

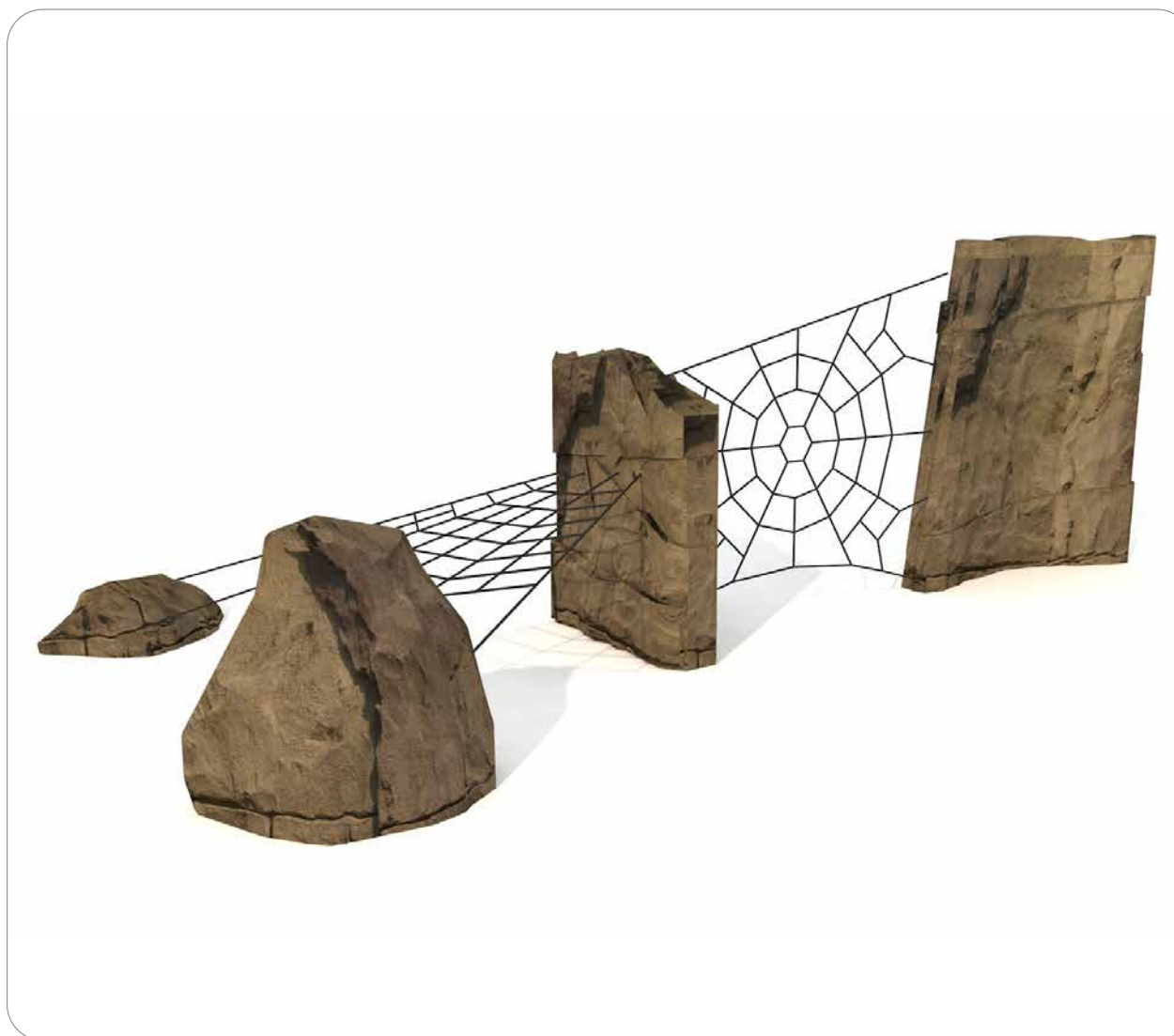


6+

Boulders, Wall & Net 2

8080766 CC Yellow

★ 10.00 x 9.00



m²
87



2.8



7+



6+



0

Boulders, Wall & Net 3

8080767 CC Yellow

★ 13.00 x 9.00

16 ROX Wall and Boulder combinations



m²
81

2.8

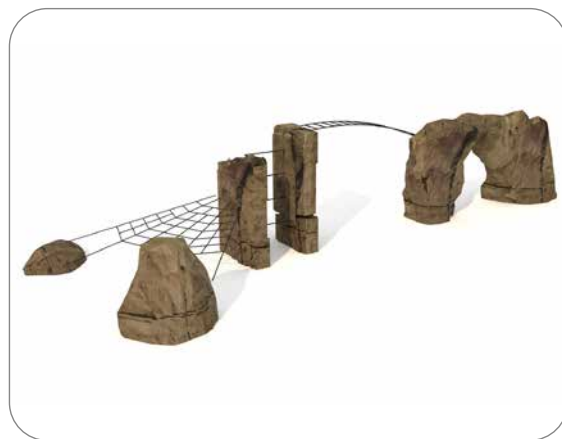
7+

8+

Climbing Wall Challenge

8080769 CC Yellow

★ 13.50 x 7.50



m²
115

2.5

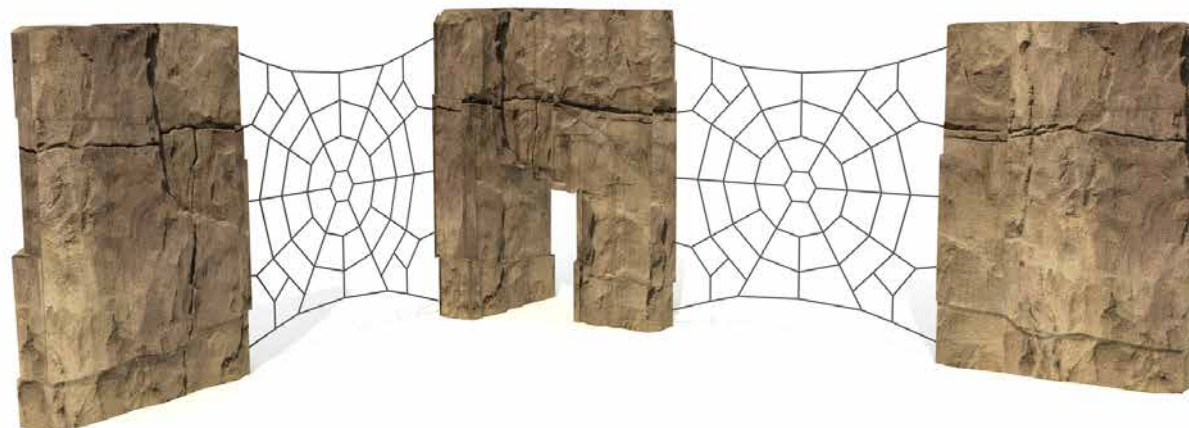
7+

8+

Climbing Combination 1

8080768 CC Yellow

★ 16.90 x 8.80



m²
105

2.8

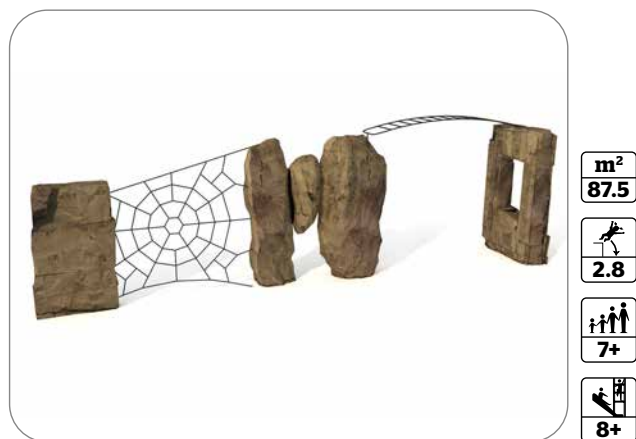
7+

8+

Climbing Combination 2

8080770 CC Yellow

★ 12.80 x 10.90

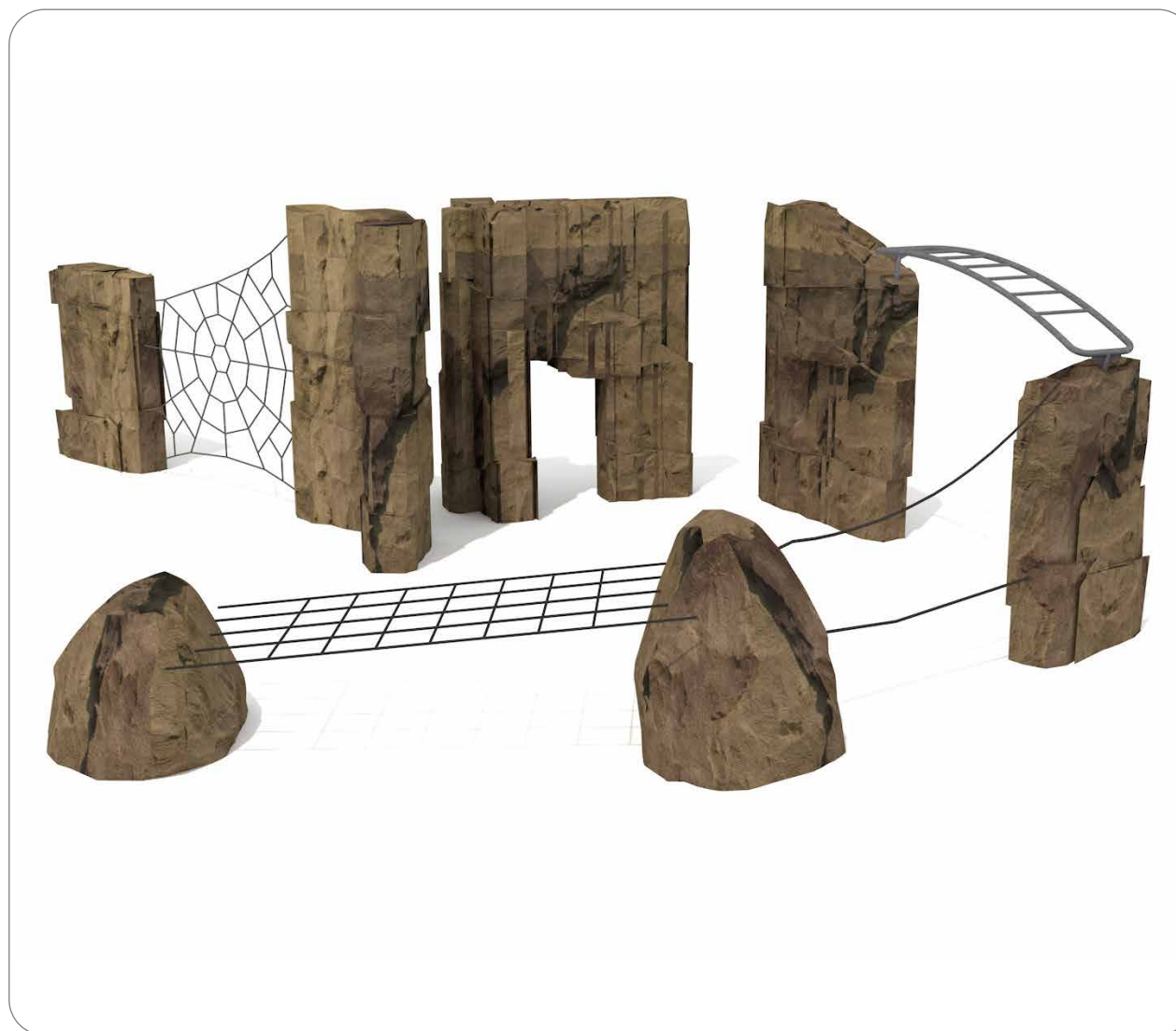


Climbing Combination 3

8080771 CC Yellow

★ 14.50 x 6.40

Many famous rock climbers have learned their skills on artificial climbing walls.



Climbing Combination 4

8080772 CC Yellow

★ 1.60 x 13.00

18 ROX Wall and Boulder combinations



m²
47



2



7+



6+

Half Cave

8080773 CC Yellow

★ 6.40 x 8.00



m²
69



2



7+



10+

Split Cave

8080774 CC Yellow

★ 9.00 x 9.00



m²
52.5



2.5



7+



4

2 Wall Challenge

8080775 CC Yellow

★ 9.50 x 6.00



m²
67

2.5

7+

6

3 Wall Challenge

8080776 CC Yellow

★ 8.60 x 9.50



m²
74

2.5

7+

6

3 Wall & Net Challenge

8080777 CC Yellow

★ 10.50 x 9.50



m²
27

2.7

7+

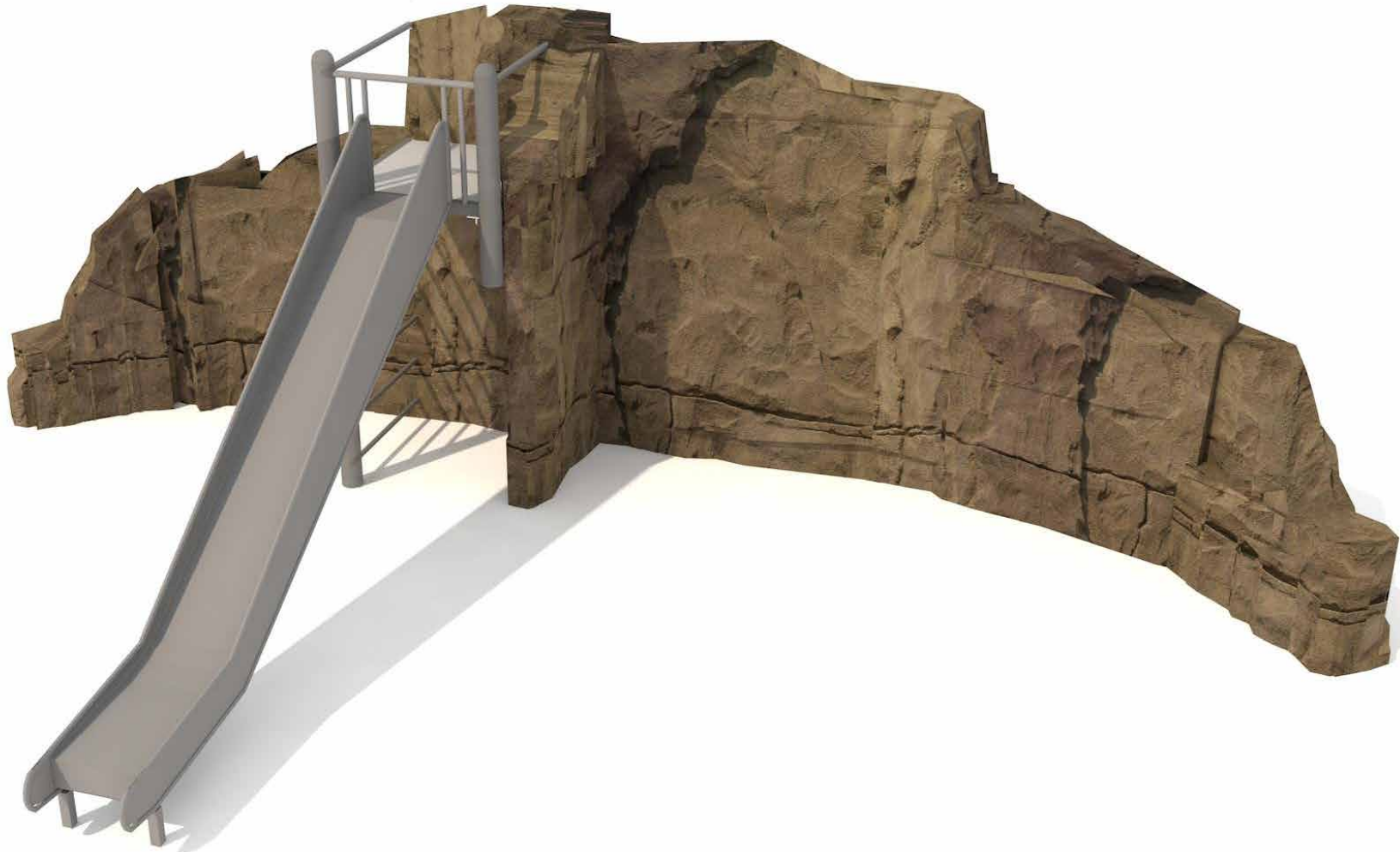
8+

Retaining Wall

8080778 CC Yellow

★ 10.50 x 4.00

20 ROX Wall and Boulder combinations



Retaining Wall & Slide

8080779 CC Yellow

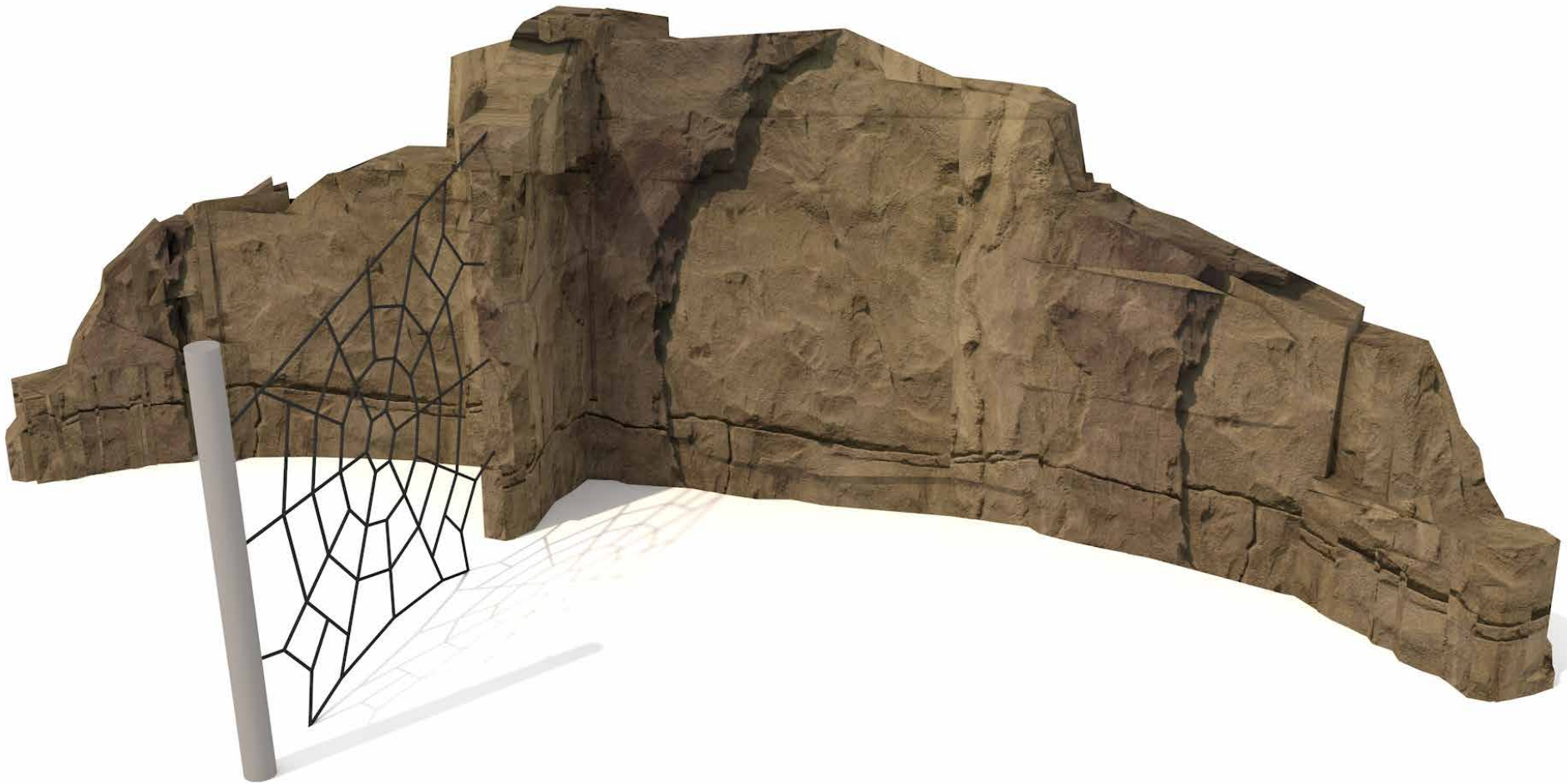
★ 12.50 x 7.50

m²
57

2.7

7+

8+




m²
49


2.7


7+


8+

Retaining Wall & Net

8080780  Yellow

★ 12.50 x 6.50

ROX Castles

Let's get creative and have a castle themed design.

Stimulating imagination and creativity is something we love to do. Our castles and ruins are sophisticatedly designed to provide incentives for climbing, catching and hiding, and immersing yourself in a fantasy world.

Due to the climbable surface structure, the towers and wall elements promote movement sequences that are particularly interesting and challenging for older children. Complementary rope, mesh and balancing elements increase versatility and add to the excitement.



m²
149

2.5

7+

15+

Castle 1

8080781 CC Square Anthracite

8080782 CC Round Anthracite

★ 14.00 x 12.00



m²
95

2.5

7+

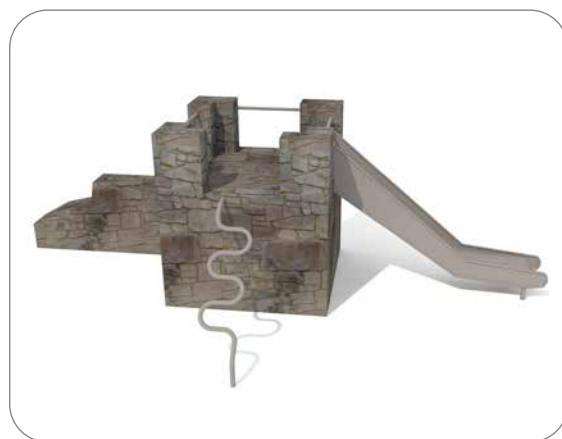
15+

Castle 2

8080784 CC Round Anthracite

8080783 CC Square Anthracite

★ 14.00 x 8.40



m²
67

2.5

7+

10+

Castle 3

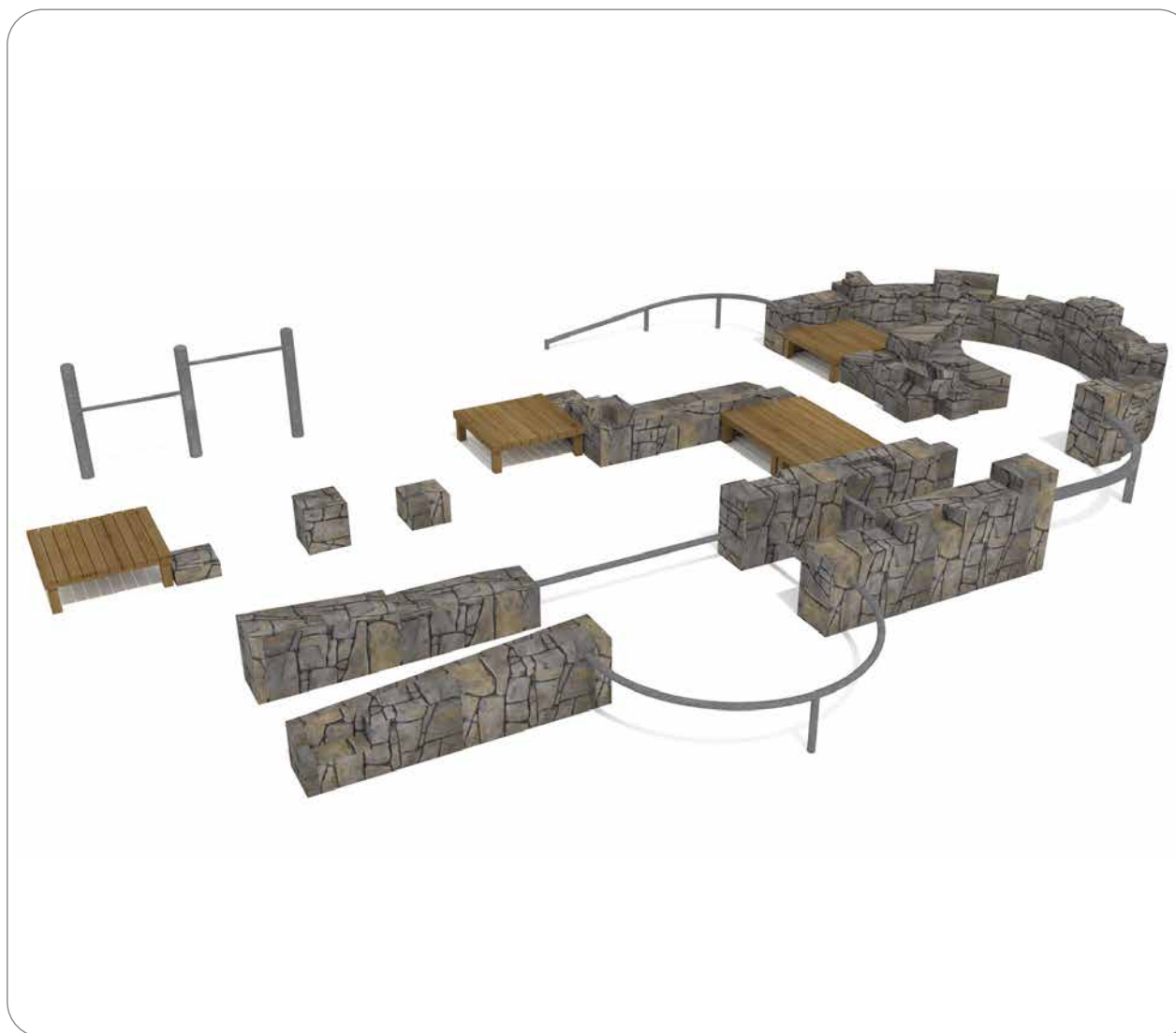
8080785 CC Square Anthracite

8080786 CC Round Anthracite

★ 11.50 x 7.50



Rock climbing is an ancient practice with records dating back to 200 BC.



m²
140

1.2

7+

6+

The Ruin

8080787 CC Anthracite

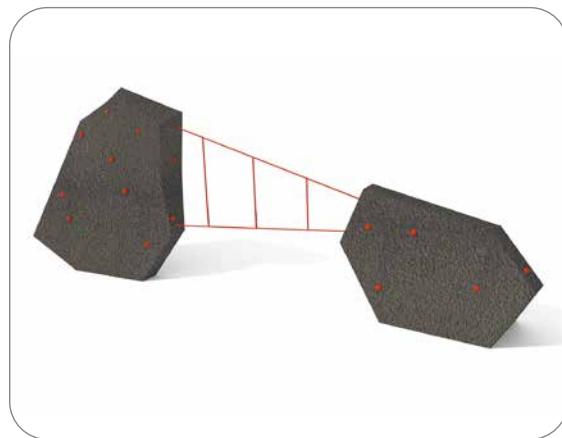
★ 15.30 x 11.30

ROX Polygonal

Go for a modern architecture by styling your open space with irregular polygonal structures.

The Polygonal ROX products are a popular stylistic choice when it comes to having modern architecture in urban areas.

The Polygonal sculptural design not only provides style and aesthetics but it also provides the same play values as the whole of the ROX range.



m²
62

2.8

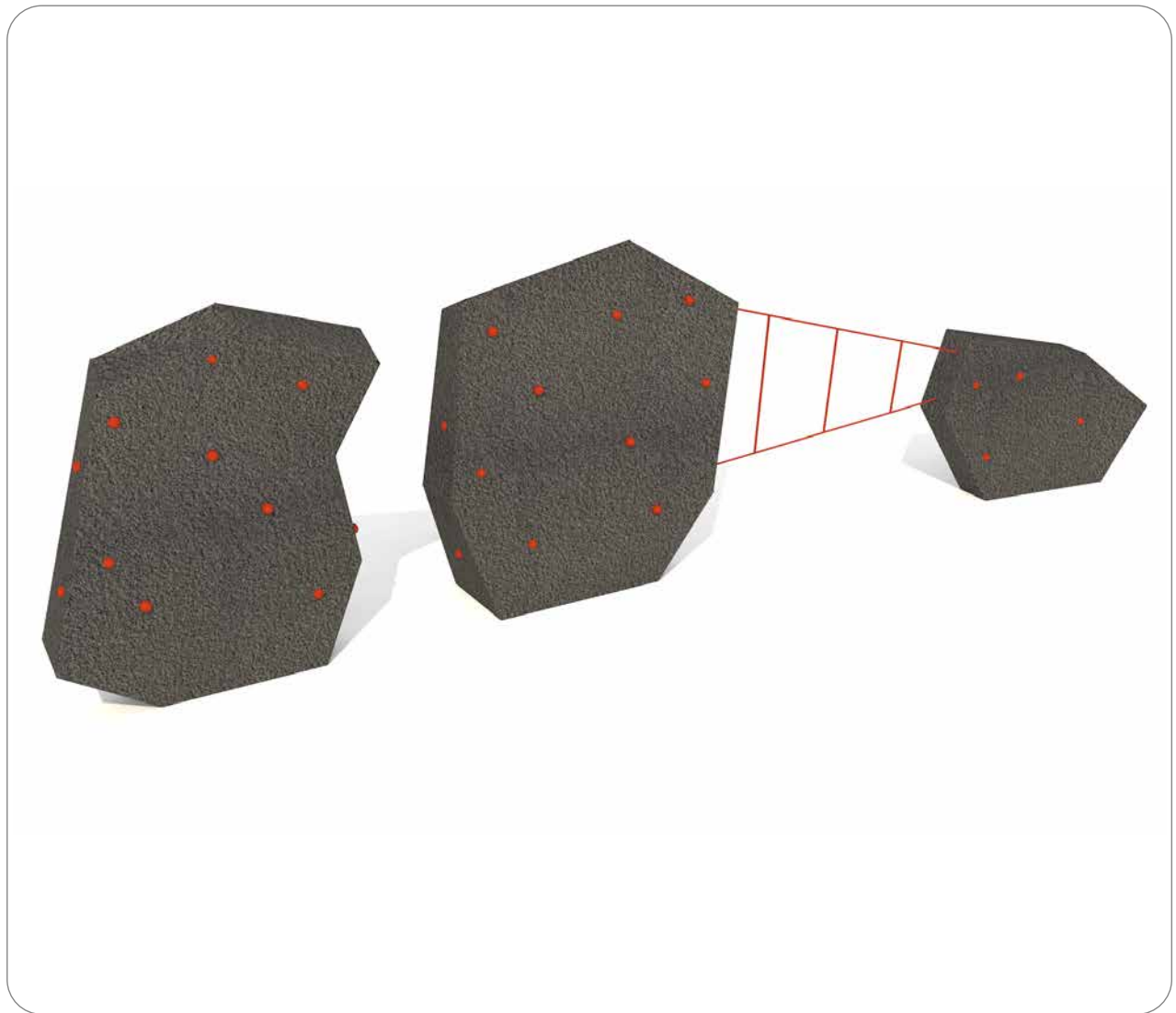
7+

15+

Polygon 1

8080788 CC Grey

★ 11.50 x 6.50



m²
84

2.8

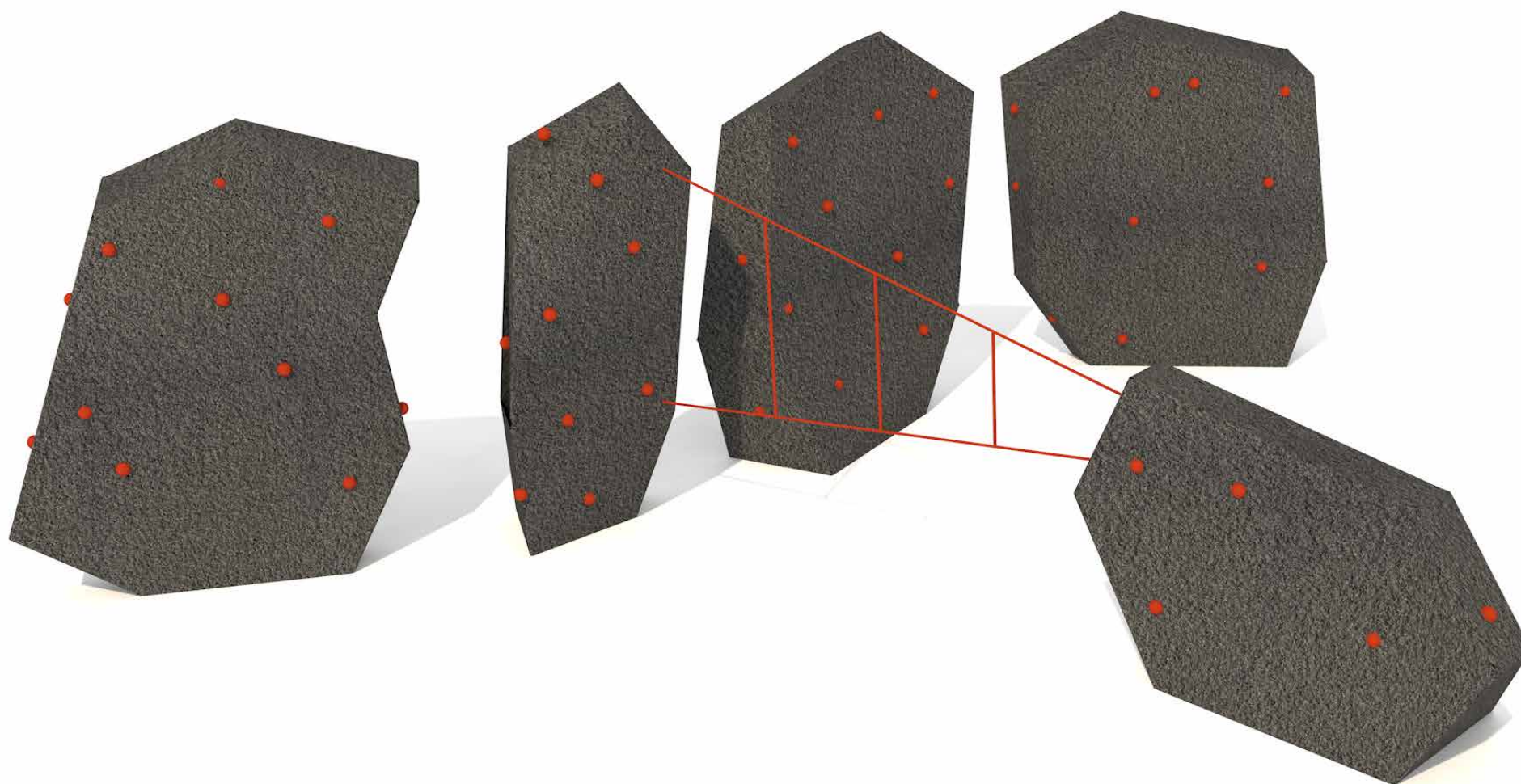
7+

4+

Polygon 2

8080789 CC Grey

★ 14.50 x 6.50


m²
1250

2.8

7+

4+

Polygon 3

8080790 CC Grey

★ 14.50 x 1.20

Berlin & Dublin

Two great examples of castle climbing structures in Berlin and Dublin.

The entire surface structures are climbable giving that sense of adventure and fantasy.

These castle constructions provide:

- A long-lasting, durable, concrete structure.
- Great experience for many generations for years to come.
- An eye-catching and welcoming play area
- Unstructured play that allows your mind to take you where you want to go.





Frankfurt

In Frankfurt, a climbing play facility was built on approx. 200m².

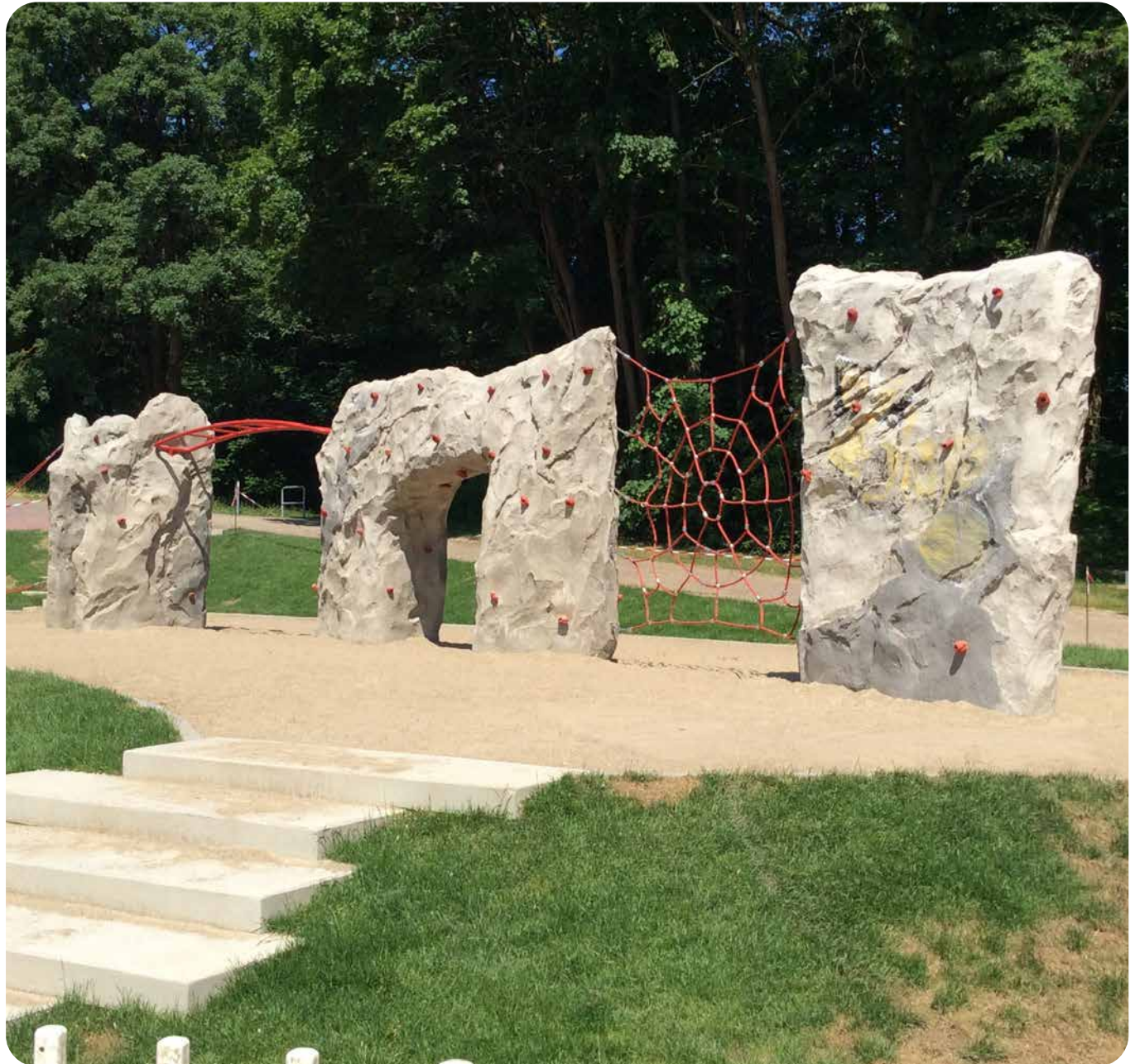
- Play elements such as slide, nets and suspension bridge connect with larger rock structures.
- It offers a combination that is interesting for children as well as for adolescents.
- The adjacent fitness course fits well as a logical addition to a facility for young and old.



Rostock, Germany

This facility in Rostock is a brilliant example of the combination of play and sport for children and young people alike.

- This system is supplemented with balancing ropes, a climbing net and a climbing ladder.
- The attachments increase the call character for climbing and offer further movement options.
- Designed for beginners and experienced climbers. Beginners can make use of easy access point while experienced climbers can train their skills with the exclusive use of the rock structure.



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ISSUE A (EMEA) 01:12:20



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