

ZIGZAG BOULDER



HBH

HBH was among the first companies in Europe to produce own-bodyweight - specifically street workout - sports equipment and accessories. In 2019 HBH has introduced its new bouldering product for climbers. HBH is present in more than 20 countries, stretching over 3 continents since 2011.

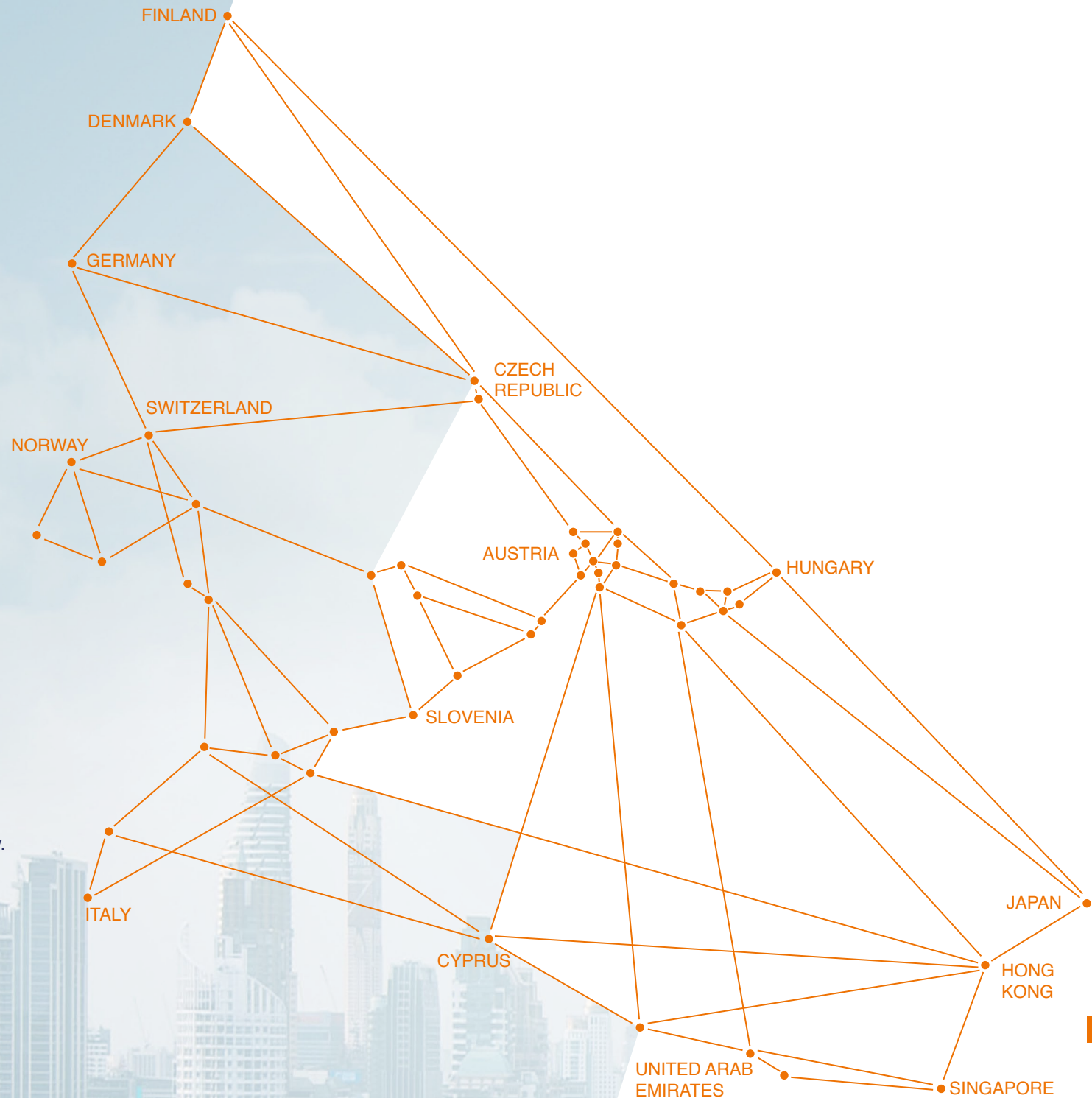
WHY HBH?

HBH is a real bottom-up initiative; its founders started as athletes, organized competitions to develop communities and started a business to provide professional equipment to the local community, later branching out into the European market too. HBH was one of the primary movers on the European street workout market (2011).

HBH's primary objective is to use cities for sport activities, and to shift indoor sports to outdoor spaces.

HBH products can fit into any dense urban environment, providing the highest sport and community benefits available in any city.

Each product is tested, approved and designed in accordance with professional guidance from athletes.



WHAT IS BOULDERING?

Bouldering is a form of rock climbing that is performed on small rock formations or artificial rock walls, known as boulders, without the use of ropes or harnesses. Climbers usually only require crash pads to prevent injuries from falls from natural rocks, whilst there are many flooring solutions, like fall-protection pebbles, pea gravel, shredded rubber mulch for outdoor use. Bouldering problems (the sequence of moves that a climber performs to complete the climb) are usually less than 4-6 meters (15-20 ft.) tall.

The sport originally was a method of training for roped climbs and mountaineering, so climbers could practice specific moves at a safe distance from the ground. Throughout the 20th century, bouldering evolved into a separate discipline.

The sport will make its Olympic debut at Tokyo 2020 and will feature three disciplines:

- speed climbing
- bouldering
- lead climbing.



GERMAN
DESIGN
AWARD
WINNER
2023

H3H 

WWW.HARDBODYHANG.COM



FOR WHOM?



Cities / municipalities / urban planners and developers

HBH products are the most efficient tools that any government can use to obtain their sport-related objectives, delivering the highest social return for a one-off investment.



Gyms and sport clubs

Own bodyweight equipment is successfully moving into the gym market, bouldering is becoming the new forms of fitness.



Private use

Walls can be made suitable for private use in home gardens.

TO WHERE?

public spaces / parks / playgrounds /
education institutions / sport clubs /
amusement parks / private gardens



USERS

(age 6-99)

Boulder problems have various levels of difficulty for people of all ages and skills. Slabs (rock faces that are angled at less than 90 degrees or less than vertical), larger handholds and footholds are designed for kids and beginners, certain problems built on edges and overhangs create a more difficult challenge for advanced users.

OUTDOOR SPORT AND PLAYGROUND MARKET

Today, 55% of the world's population lives in urban areas, a proportion that is expected to increase to 68% by 2050. Today, the most urbanized regions include Northern America (with 82% of its population living in urban areas in 2018), Latin America and the Caribbean (81%), Europe (74%) and Oceania (68%). In such an urbanized world, public spaces play a vital role in urban planning and development. (UN2018)

- Increasing awareness of being healthy.
- Sport is becoming top priority in life.
- Indoor sport activities are moving out to urban spaces to make available for greater societies. (street workout, streetball, stb.).
- In 2017, the global playground equipment market is led by Asia-Pacific, capturing about 44.28% of global playground equipment consumption. North America is the second-largest region-wise market with 25.82% global consumption share. (market-watch)
- Over the next five years playground equipment projects will register a 10.0% CAGR in terms of revenue, reach \$7400 million from \$4180 (2017-2023). (marketwatch)
- HBH is now moving from another frequent indoor activity to the regular use of the outdoor environment.

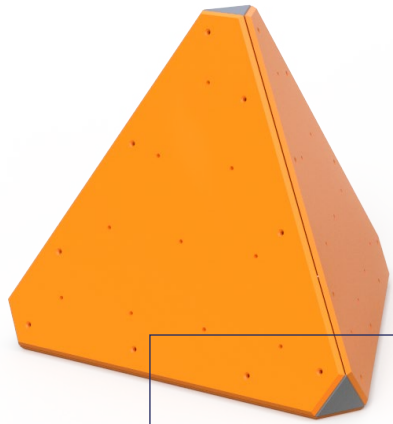
CLIMBING MARKET

Climbing used to be a very niche extreme sport, however due to the growing number of climbing gyms more people are choosing to gain strength and fitness in recent years.

- 25 million people are climbing regularly in the world.
- Climbers are young (39% under 18) but practice until 60 and older.
- The share of female climbers is very high (38% vs. usual maximum 31%).
- In Austria: 48% men, 52% women, in France: 59% men, 41% women (2015).
- In China, climbing walls in primary schools have increased from 30 to 120 (2012-15).
- Climbing's debut in the 2020 Olympics.
- In past years around 40% of new gyms in the US have been bouldering-only or mostly bouldering-only. (2017)

source:
ifsc-climbing.org
un.org/development

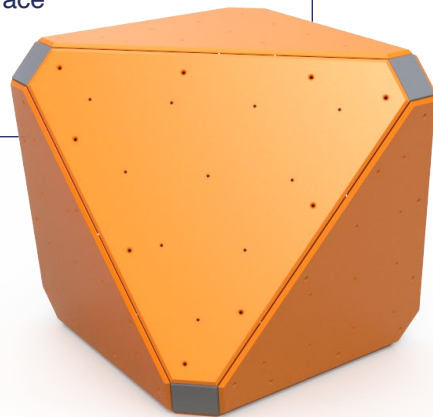




MODULES

The Urban Boulder can change its size and configurations by changing the position relationship of modules. The two types of modules (octahedron & tetrahedron)

- are crystal structure shaped
- are modulares, parts can easily connected
- offer infinite possibilities of combination
- can create a flat surface or amorphous forms



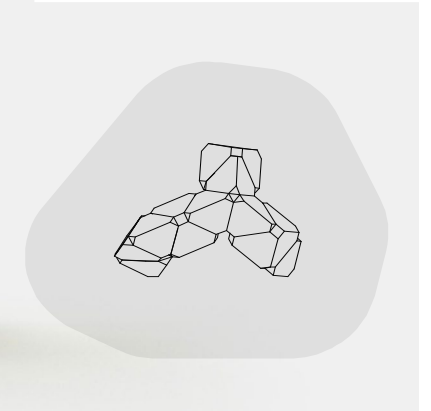
ZIGZAG BOULDER

HBH has developed its newest outdoor product for hobbyists, amateurs and professional athletes, so climbing is available for all, regardless of age, experience or athletic ability. The HBH wall is basically a folding puzzle solution, which consists of two types of modules (octahedron & tetrahedron), which can change its size and configurations by changing the position relationship of modules.



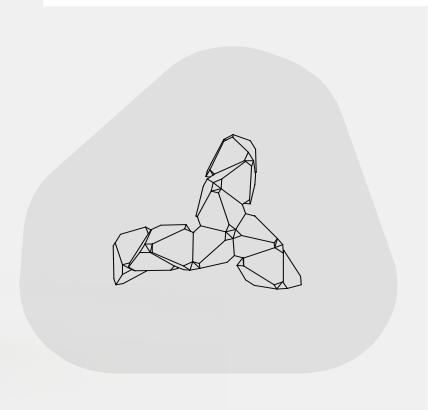
HBH ZIGZAG Z001

climbing surface **38 m²**
climbing routes **18+**
equipment size **4.6x3.7x2.6 m**, HIC **2.6 m**
safety zone **39 m²**



HBH ZIGZAG Z002

climbing surface **46 m²**
climbing routes **15+**
equipment size **5.4x4.6x3.6 m**, HIC **3 m**
safety zone **52 m²**



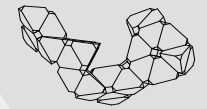
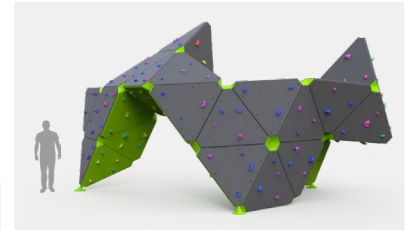
HBH ZIGZAG Z003

climbing surface **44 m²**
climbing routes **15+**
equipment size **6.4x2.9x4.2 m**, HIC 3 m
safety zone **49 m²**



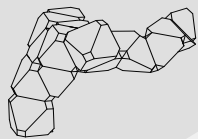
HBH ZIGZAG Z005

climbing surface **69 m²**
climbing routes **25+**
equipment size **7.2x4.2x4.2 m**, HIC 3 m
safety zone **83 m²**



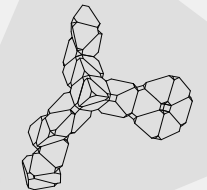
HBH ZIGZAG Z004

climbing surface **56 m²**
climbing routes **22+**
equipment size **6.5x3.8x4.7 m**, HIC 3 m
safety zone **60 m²**



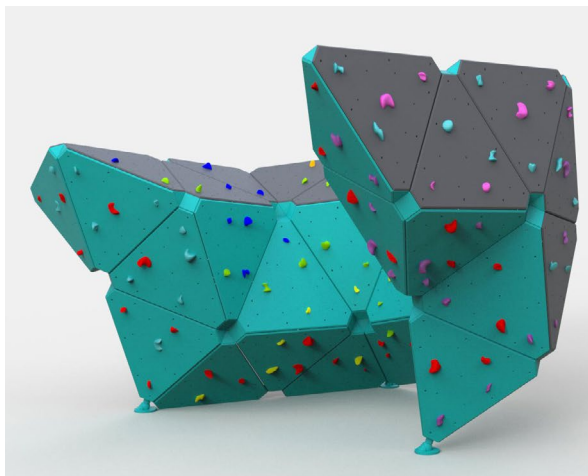
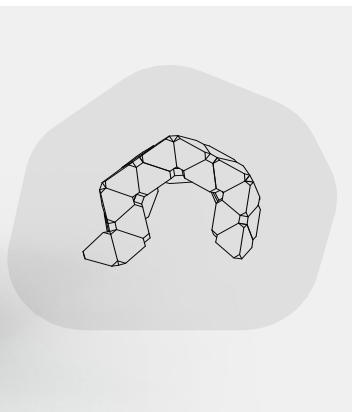
HBH ZIGZAG Z006

climbing surface **80 m²**
climbing routes **30+**
equipment size **8x6x4.6 m**, HIC 3 m
safety zone **91 m²**



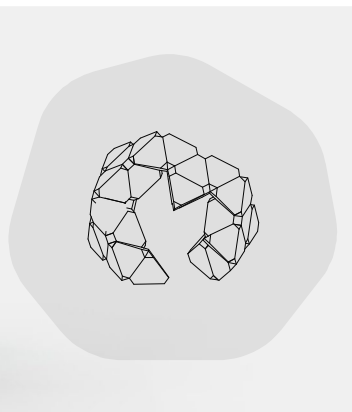
HBH ZIGZAG Z007

climbing surface **63 m²**
climbing routes **28+**
equipment size **5.9x4.5x3.5 m**, HIC 3 m
safety zone **81 m²**



HBH ZIGZAG Z008

climbing surface **71 m²**
climbing routes **25+**
equipment size **5.4x5.2x3.9 m**, HIC 3 m
safety zone **64 m²**

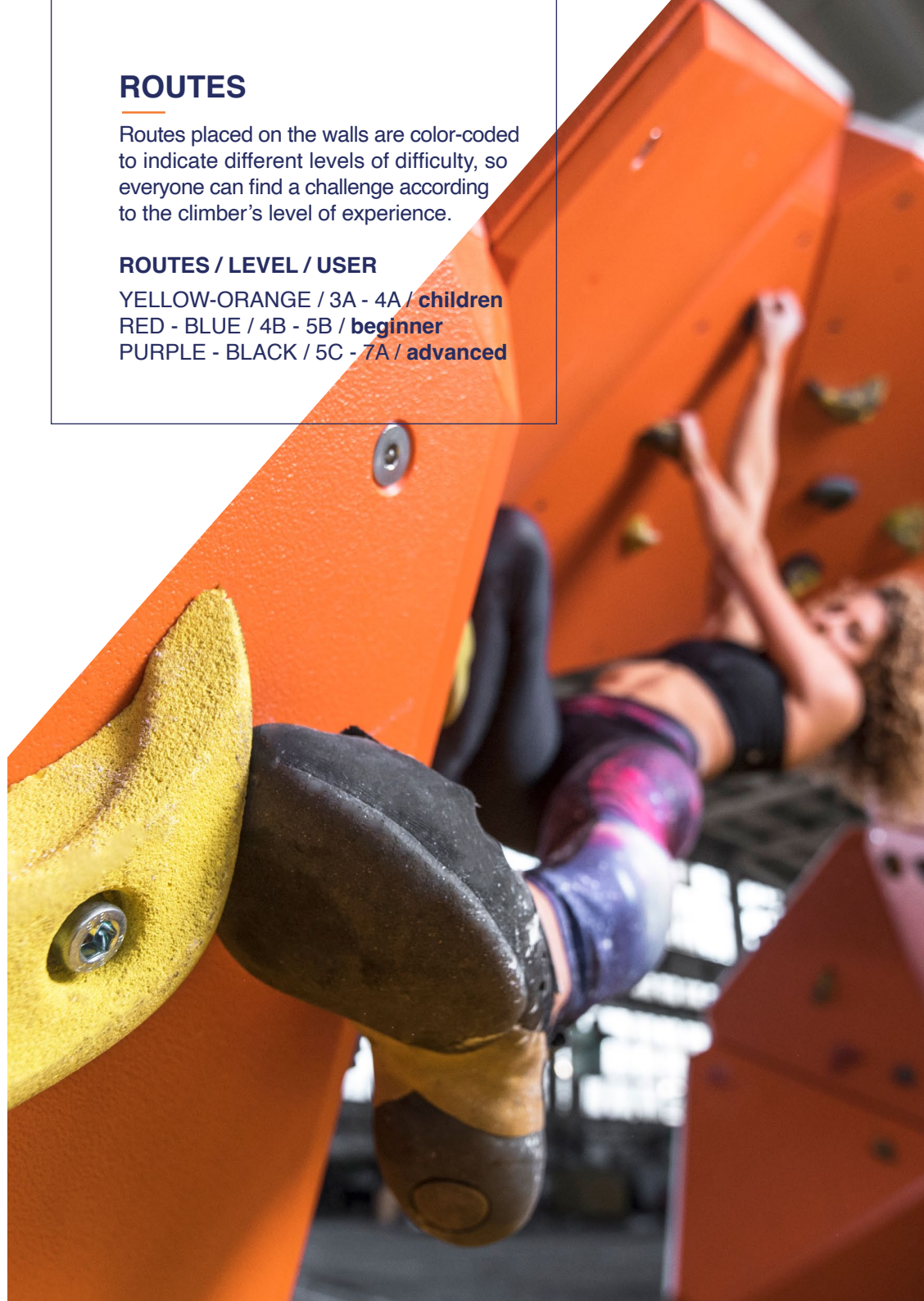


ROUTES

Routes placed on the walls are color-coded to indicate different levels of difficulty, so everyone can find a challenge according to the climber's level of experience.

ROUTES / LEVEL / USER

YELLOW-ORANGE / 3A - 4A / **children**
RED - BLUE / 4B - 5B / **beginner**
PURPLE - BLACK / 5C - 7A / **advanced**



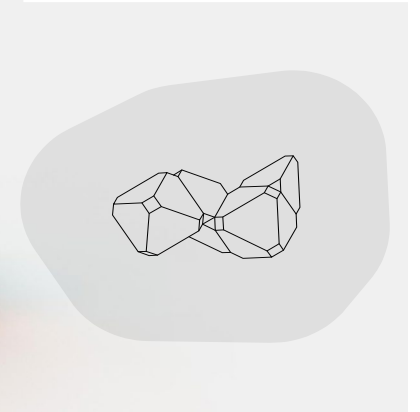
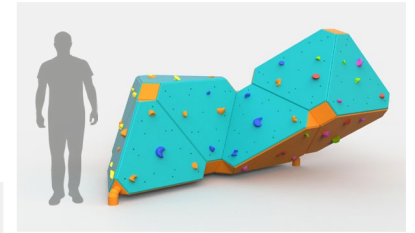
ZIGZAG PLAY

The simple playful forms have been designed for the younger age group. Easier climbing routes have been created on these, so we recommend it primarily as a playground movement coordination development tool. Less backward climbing surfaces and closer grips ensure easy climbing, a perfect introduction to the world of climbing for children and younger people.



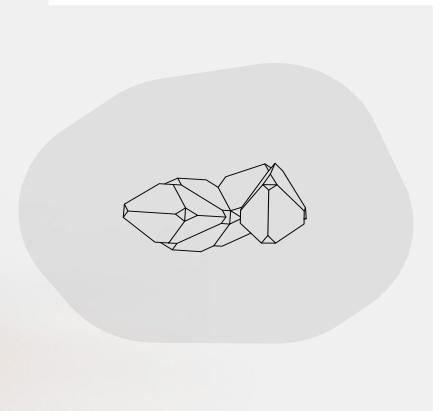
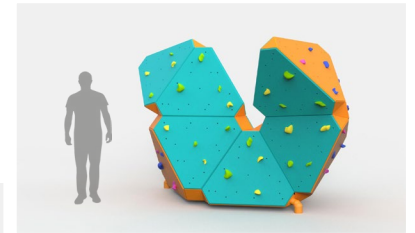
HBH ZIGZAG Y001

climbing surface **20 m²**
climbing routes **8+**
equipment size **3.8x2.2x2 m**, HIC 2 m
safety zone **28 m²**



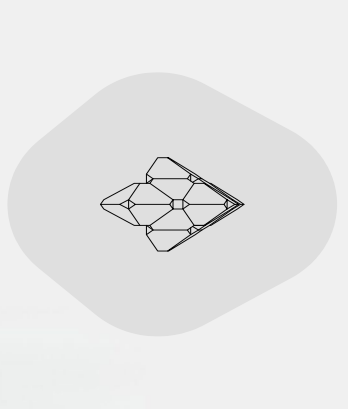
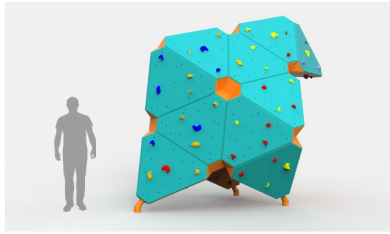
HBH ZIGZAG Y002

climbing surface **22 m²**
climbing routes **10+**
equipment size **3.5x1.7x2.5 m**, HIC 2,5 m
safety zone **30 m²**



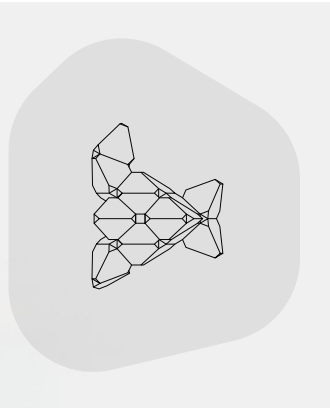
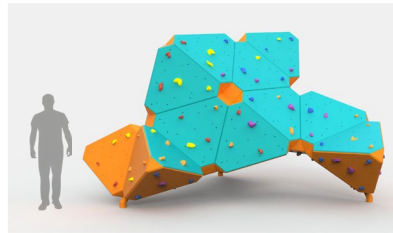
HBH ZIGZAG Y003

climbing surface **30 m²**
climbing routes **15+**
equipment size **3.9x2.7x3.7 m**, HIC **3 m**
safety zone **40 m²**



HBH ZIGZAG Y004

climbing surface **44 m²**
climbing routes **15+**
equipment size **4.9x3.9x3.2 m**, HIC **3 m**
safety zone **45 m²**



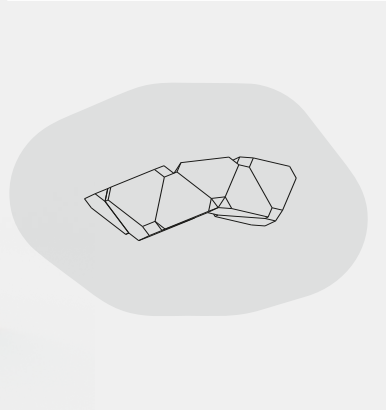
TECHNICAL INFORMATION

- The product is in compliance with the Hungarian and European climbing provisions (artificial climbing walls, MSZ EN 12572-2:2017) and the European standards for playgrounds (TÜV - EN 1176), which specifies general safety requirements for public playground equipment and surfacing.
- Climbing without the use of ropes or harnesses, the highest standing level is 3 m.
 - 3m (according to the European standards for playgrounds)
 - 4m (according to the European climbing provisions)
- Surfacing is 40 cm deep and extend about 2,5 m (8 feet) out from the farthest overhanging point as a minimum.
- Fall zone is built of river pebbles / pea gravel / shredded rubber mulch, which is virtually maintenance-free.
- 10 years warranty
- Weather proof materials
- Easy to install. Professional guide provides instructions on how to manually install the product.
- Climbing holds and paths can be endlessly reset or rearranged.



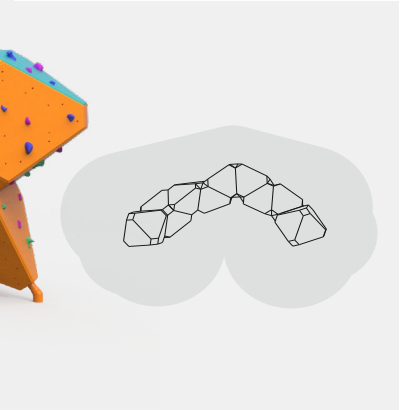
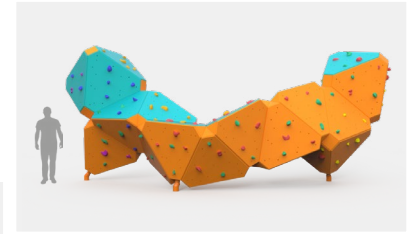
HBH ZIGZAG Z056

climbing surface **22 m²**
climbing routes **10+**
equipment size **4.1x1.8x2.45 m**, HIC **2.5 m**
safety zone **26 m²**



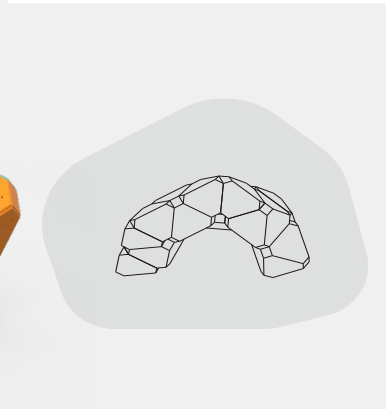
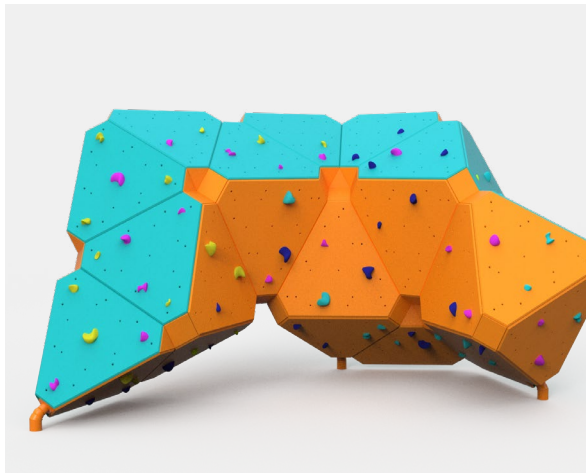
HBH ZIGZAG Z064

climbing surface **42 m²**
climbing routes **20+**
equipment size **7x3x2.8 m**, HIC **2.8 m**
safety zone **58 m²**



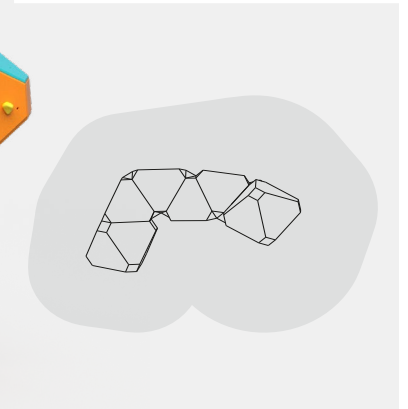
HBH ZIGZAG Z057

climbing surface **40 m²**
climbing routes **20+**
equipment size **5.2x3x2.6 m**, HIC **2.6 m**
safety zone **46 m²**



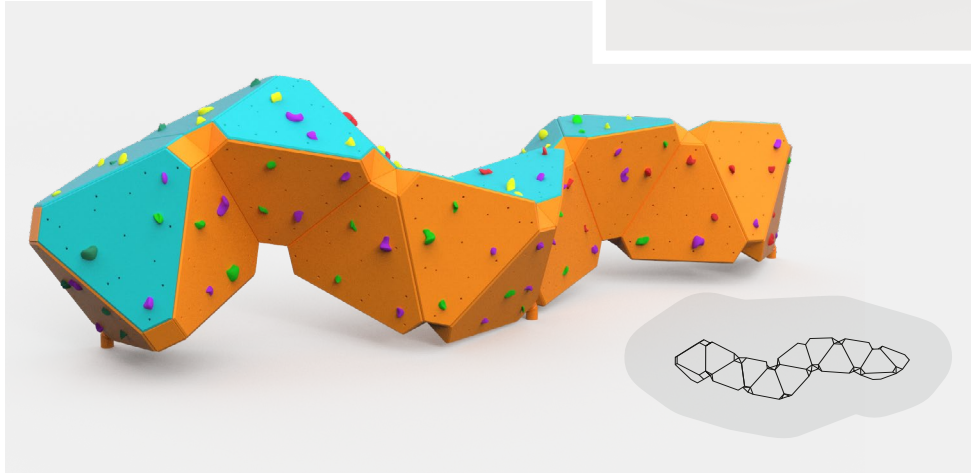
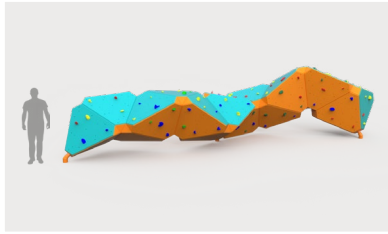
HBH ZIGZAG Z065

climbing surface **30 m²**
climbing routes **15+**
equipment size **4.9x2.6x2.8 m**, HIC **2.8 m**
safety zone **39 m²**



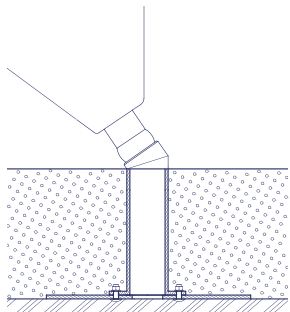
HBH ZIGZAG Z053

climbing surface **38 m²**
climbing routes **18+**
equipment size **8.1x2.3x2 m**, HIC 2 m
safety zone **46 m²**




FOUNDATION ZIGZAG GUIDE

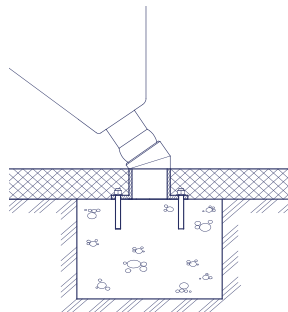
“A” recommended for
climbing wall



 **Pearl gravel (4-8 mm)**
40 cm layer thickness

 **Rubberized floor**
Safety surface

“B” recommended for
playground



 **Structural reinforced
concrete**

 **Natural ground**

COLOR

The standard colors are RAL 7042/ 6027/
6018/ 2009. Other color combinations
are also available, but always consult
us before ordering.



CERTIFICATE

Zigzag boulder outdoor climbing walls
are **1176 EN certified**. In case of climbing
walls with a height exceeding 3 m, the last
climbing hold must not be placed higher
than 3 m.

ENVIRONMENT

Our company is committed to sustainable
development and protecting our environment.
We pay particular attention to ensuring that
our products will live on in support of the
circular economy model.



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