

2025

P R E beton

A concrete solution



Greeting

AS A MEMBER OF THE MARKET GROUP, PREBETON LTD. HAS BEEN A DEDICATED SPECIALIST IN PRECAST REINFORCED CONCRETE STRUCTURES IN HUNGARY SINCE ITS FOUNDATION IN 2020.

We established the company to elevate the use of precast technology in building construction to a new level, building on decades of experience in the sector. Our goal is to offer faster, more cost-effective, and more sustainable solutions — without compromise and always meeting the highest quality standards.

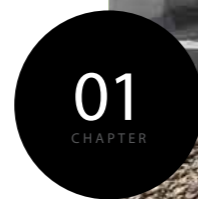
With state-of-the-art production capacity, advanced technological infrastructure, and the stability provided by the professional resources of the Market Group, we are a flexible, precise, and reliable partner — even in large-scale, complex projects.

PREbeton's precast products have already proven themselves in numerous successful developments — whether office buildings, logistics centers, industrial facilities, residential properties, or hotels. In every case, our mission is to bring our partners' visions to life quickly and reliably while creating long-term value.

We believe that the future of construction lies in responsible thinking, harnessing the advantages of industrialized technologies, and the power of strong partnerships. This conviction is at the heart of everything we do, and it inspires our work every single day.

We hope you find this publication informative — and we look forward to the opportunity to work with you in the near future.

Sándor Scheer
Founder-Co-owner, Chief Executive Officer





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Imprint

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www.prebeton.hu

Introduction

AS A MEMBER OF MARKET GROUP, PREBETON LTD. MANUFACTURES, ASSEMBLES AND PROCESSES PREFABRICATED REINFORCED CONCRETE STRUCTURES.

Its services include design, manufacturing, transportation, and assembly, **enabling it to provide quality construction in a full range of structural projects.** Its products have conformity marks, licenses and certificates according to Hungarian legislation. The company operates according to the MSZ EN ISO 9001 quality management system, thus ensuring consistently high quality.



01
CHAPTER



Our services

02
CHAPTER



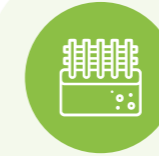


02
CHAPTER



Design

PREbeton Ltd. manufactures the prefabricated reinforced concrete structures with its own designers and commissioned product design subcontractors. The product design department has many years of design and construction experience, they can ensure the parallel implementation of several projects at the same time. With the help of BIM systems and a modern design software environment, consistently high quality can be achieved. The further training of colleagues is ongoing to maintain competitiveness.



Structural assembly

Under the supervision and direction of the construction manager, the construction of the frame structure is carried out by subcontractor assembly teams in the quality required by the current legislation and in maximum compliance with occupational safety regulations. Thanks to its mounting capacity, it is possible to carry out several construction sites at the same time.



Product manufacturing

The company manufactures the prefabricated reinforced concrete elements on a 6-hectare factory site in Erdőtelek. Production takes place in two heated, winterized production halls with the most modern technologies. Based on the product plans, the elements are manufactured with the help of a unique template park and own concrete plant, in the case of individual products with wood and steel hybrid formwork, for the preparation of which our own joinery and locksmith factory is available.



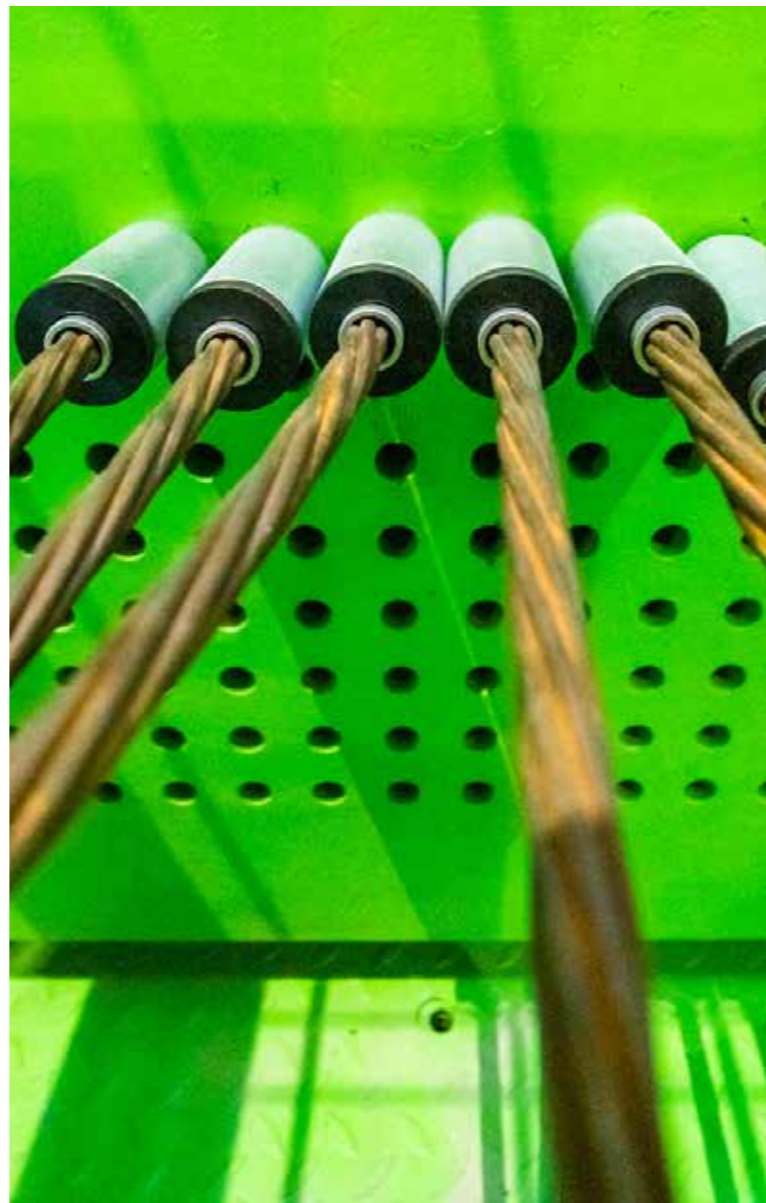
Transport

The Company implements the fast and flexible transportation of its self-manufactured building blocks to the construction site with the help of its subcontractors. It can undertake the transportation of products up to 36 meters in length and up to 30 tons.



Rebar machining

The rebar machining department is equipped with fully automated rebar cutting and bending machines. Hungary's state-of-the-art technological machinery enables machining of rebar coils up to 16 mm diameter and fiber bars up to D40 mm diameter. Rebar orders can also be processed completely digitally using BVBS files.



Manufacturing of metal industry steel products

Our metal workshop is suitable for the production of all locksmith fittings required for the manufacturing of concrete elements. In addition, we also undertake the special manufacturing of steel products, both in custom, small, and large series production.



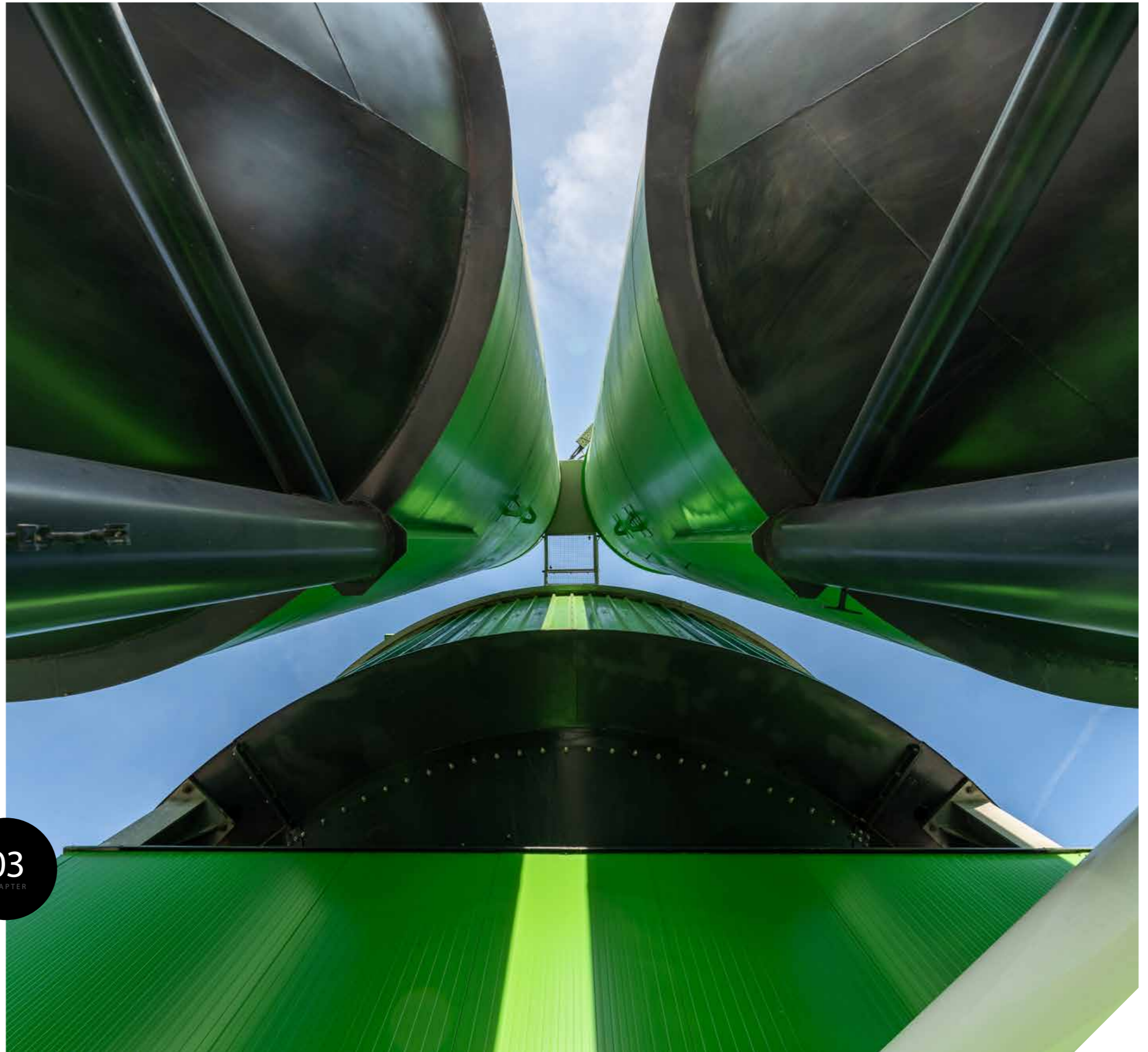
02
CHAPTER

Factory & plants

- Factory area: 60.000 m²
- Production area: 20.000 m²
- Finished goods storage area: 12.000 m²
- Annual production capacity: 50.000 m³
- Annual rebar working: 12.000 tons
- Largest producable element
60 tons, h=40 m
- Max. beam tense capacity: 600 tons
- We use & produce high-strenght,
self compacting concrete
(SCC) C50/60, decor concrete
- Most modern Construx formwork system

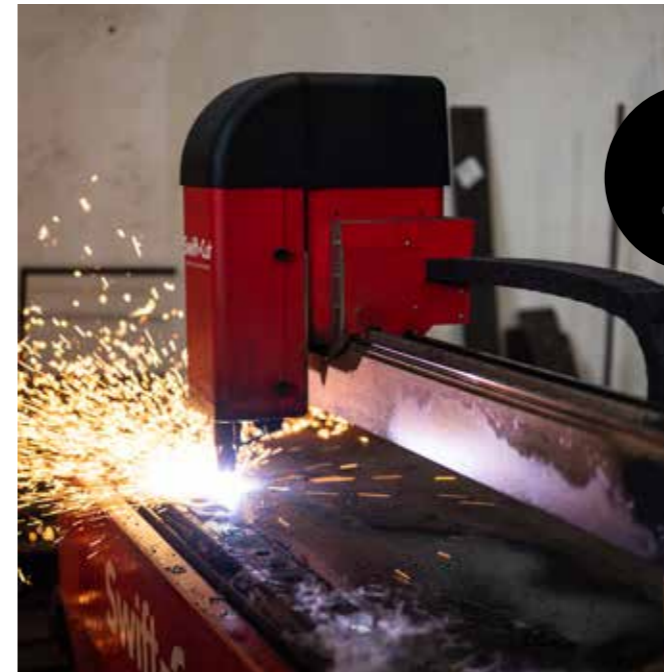
03

CHAPTER



Batching plant

- Maximum capacity of daily concrete production 250 m³
- Automatic color mixing
- Automatic plastic fiber and steel fiber rationing
- Heated additive containers
- Continuous presence of a concrete technologist
- Continuous quality checking



Locksmith workshop

- Daily fitting production 120 pcs
- Edge banding machine
- CNC plasma cutting table
- Hand-held plasma cutter
- CO welding machine
- Turning-lathe
- Stud welding machine



03
CHAPTER

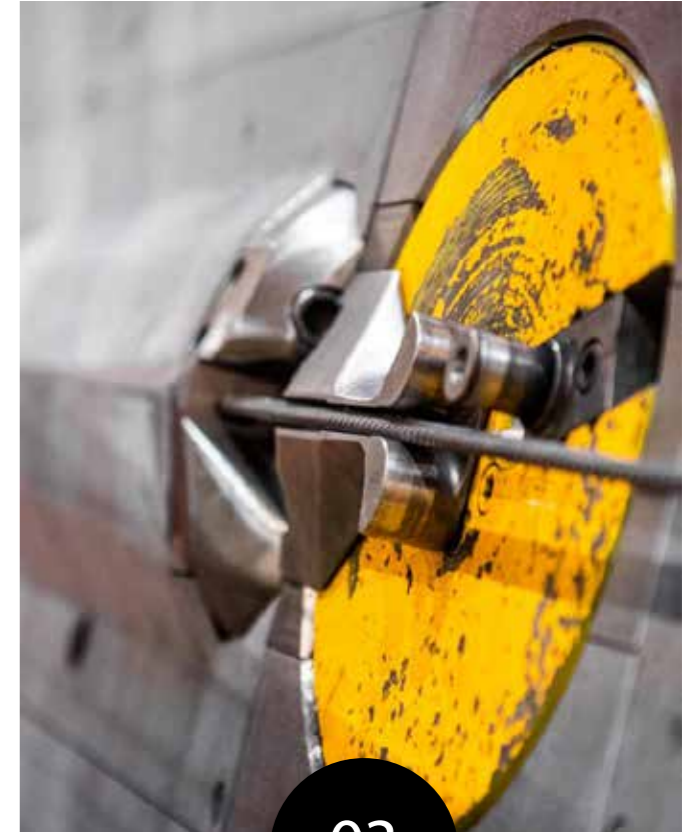
Woodworking shop

- CNC router machine
- Vertical panel saw
- 2 pcs format circular saw
- Whip-saw
- Planing machine



Reinforcing Steel Plant

- 2 pcs MEP automatic rebar coil stirrup bender – cutter machine
- 1 pc MEP automatic rebar stirrup bender – cutter machine
- 1 pc MEP Automatic rebar cutter machine
- Rebar mesh bender machine



03
CHAPTER





Manpower



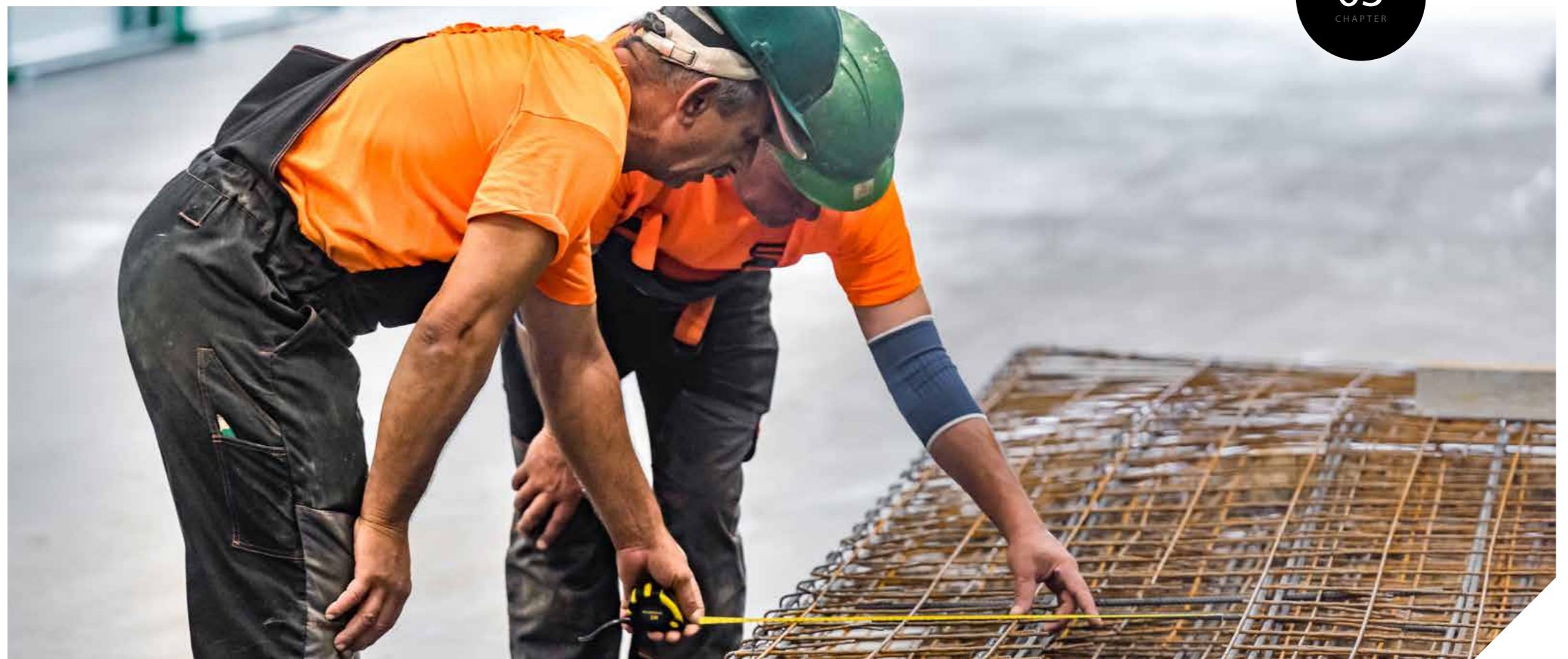
White-collar workers
88 pers.



Blue-collarworkers
83 pers.



Subcontractor workers
320 pers.



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CHAPTER



Products



04
CHAPTER

Foundations – Cup

NOWADAYS, THE IMPACTION OF THE PILLARS OF REINFORCED CONCRETE FRAME STRUCTURES IS ENSURED BY PREFABRICATED CUP NECKS.

For the base bodies, the cup neck is prefabricated, the base block is a monolithic reinforced concrete structure (flat foundation) but can be used in combination with any deep foundation method (well foundation, basic block, micro or macropile etc.).



04
CHAPTER

Notation	Geometry
M	75, 85, 95, 105, 115, 125, 130, 135, 140, 145, 150 cm
SZ	100, 120, 130, 140, 150, 160, 170 cm
H	100-320 cm
C	15, 20, 25, 30, 35 cm
D	monolit
concrete cover	c = 2,5 cm - 5 cm

Column

THE MAIN VERTICAL LOAD-BEARING ELEMENTS OF BUILDINGS ARE PILLARS.

Industrial hall pillars can be made in the required length and cross section based on static calculations. Brackets can also be constructed to receive connecting beams and crane tracks at the desired places. The design of 4-sided brackets should be avoided for manufacturing reasons! The head design of the pillars can be chosen based on the type of beams. Products can be made in single or multi-storey versions.



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CHAPTER

Jelölés	Méret
TMM	sized
KEM	sized
AM	sized
VSZ	sized
vm	sized
vny	sized
AA	200-2000 mm
BB	200-2000 mm
TMA	200-2000 mm
TMB	200-2000 mm
M	100-3000 cm

Notation	Geometry
A	75, 85, 95, 105, 115, 125, 130, 135, 140, 145, 150 cm
H	100, 120, 130, 140, 150, 160, 170 cm
M	100-320 cm
h1	15, 20, 25, 30, 35 cm
h2	monolit
m1	c = 2,5 cm - 5 cm
m2	c = 2,5 cm - 5 cm
m3	c = 2,5 cm - 5 cm

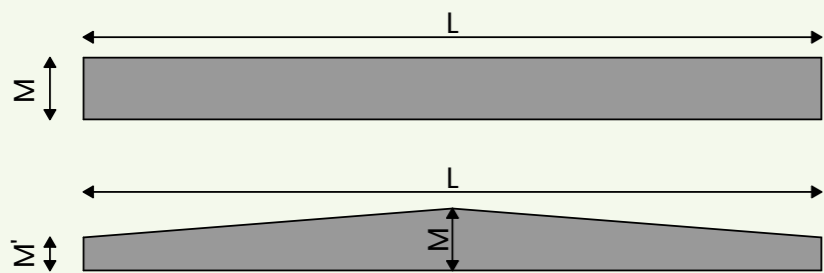
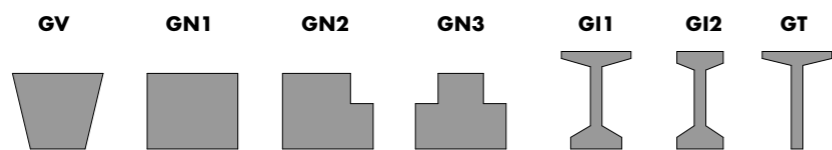


Beam

THE MAIN, HORIZONTAL, LOAD-BEARING ELEMENTS OF THE BUILDINGS ARE THE BEAMS AND THE MAIN GIRDERS. IN TERMS OF SHAPE, THEY CAN BE RECTANGULAR OR PROFILED IN DESIGN.

During beam production, cost-efficiency is important, based on loads and spans, soft iron and prestressed beam production, which is determined by the static designer. By installation, we can talk about roof supports, intermediate slab beams and foot beams. Roof supports may be made with cross-sections I, T, trapezoidal (V) and rectangular (N), with a parallel belt along their ridgelines or with a roof slope of 0 to 9% in 1 or 2 directions. Slab beams can be made in I. The design of the holder is always done individually, taking into account the customer's needs and complying with the relevant regulations and standards.

04
CHAPTER



Notation	Geometry
L	200-2000 mm
M	200-2000 mm
M1	200-2000 mm

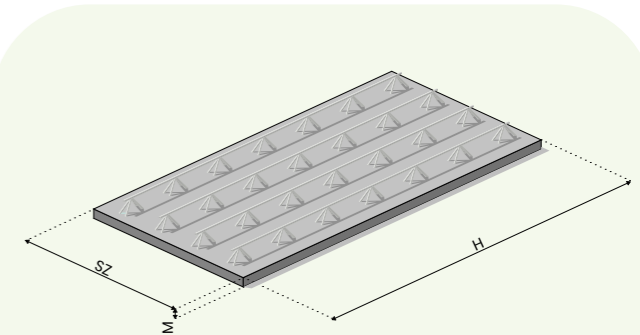
Stretched shell panel

IT PROVIDES A SOLUTION FOR FAST FEASIBLE SLAB CONSTRUCTION, A PRESTRESSED SLAB MANUFACTURED BY OUR COMPANY.

The panels consist of 14 cm precast. The resulting slabs fully comply with both the static and fire safety conventional reinforced concrete slab structure.

Benefits of using a prestressed slab:

- faster, easier execution
- no support is required up to certain dimensions
- its lower surface is smooth and easy to prepare for painting
- individual building geometry can also be used



Notation	Geometry
SZ	max 250 cm
M	max 12 cm
H	min 14 cm
band number	min 10 cm



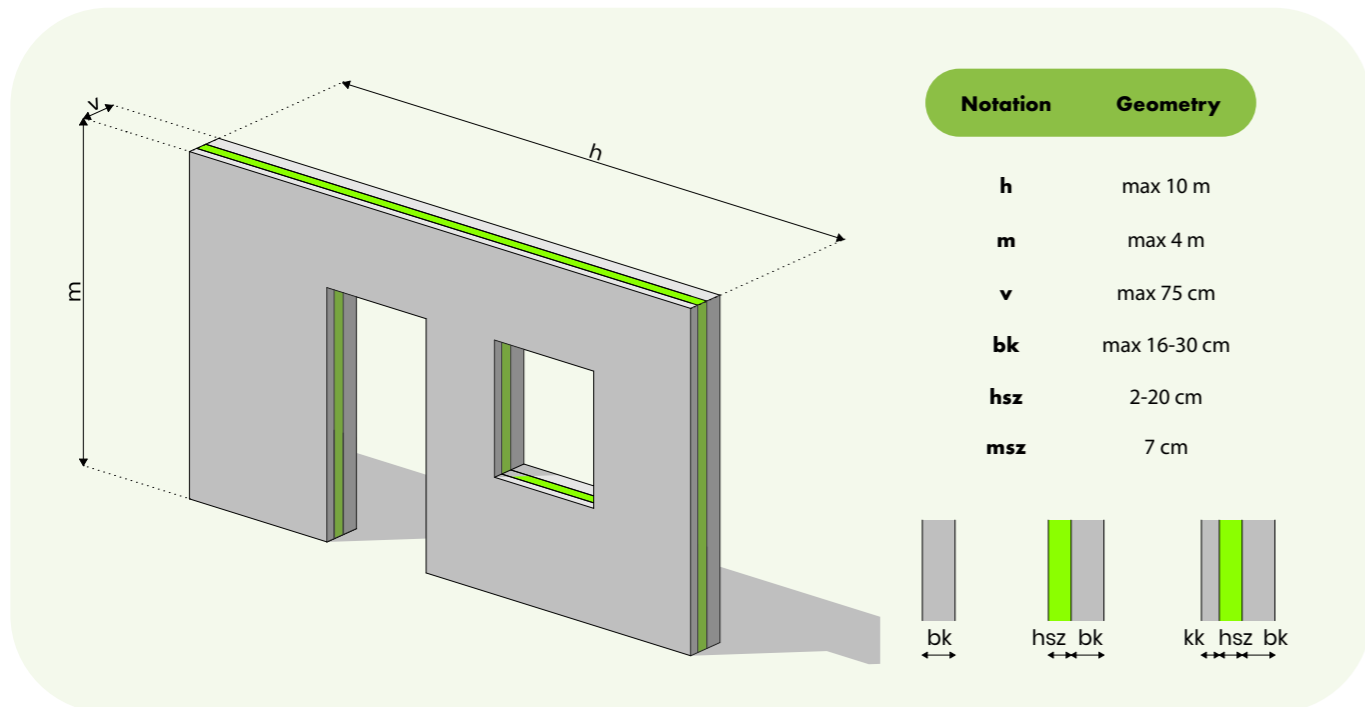
04
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Wall panel

FOR CONSTRUCTION SITES WHERE CONSTRUCTION TIME IS THE MOST IMPORTANT CONSIDERATION, OR WHERE A HIGH-QUALITY EXTERIOR APPEARANCE IS REQUIRED WITHOUT SCAFFOLDING OF BUILDINGS, OUR PREFABRICATED SANDWICH WALL ELEMENTS ARE AN EXCELLENT SOLUTION.

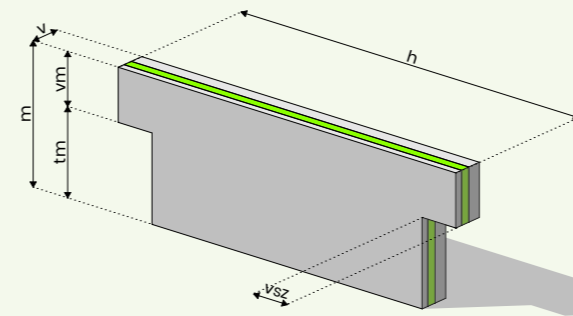
Wall panels are suitable for residential, office and industrial buildings, as well as load-bearing and also as a frame filling device. According to their structural design, they consist of a heat-insulating plate placed between two layers of reinforced concrete. Thermal insulation can be made of polystyrene, rock wool in accordance with legal requirements or other load-bearing insulation material.



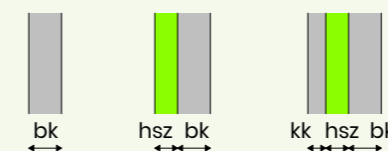
Plinth panel

PREFABRICATED PLINTH CAN BE MADE WITH ONE, TWO OR THREE LAYERS, OPEN OR CLOSED CELLULAR THERMAL INSULATION.

The single-layer structure is made with a design without thermal insulation. In a two-layer structure, 1 layer of heat insulator is placed on the outside of the self-supporting panel. In a three-layer structure, an intermediate heat-insulating plate is placed between the load-bearing inner bark and the external, visible bark. The elements are attached to the pillars and foundation bodies by fittings placed during production.



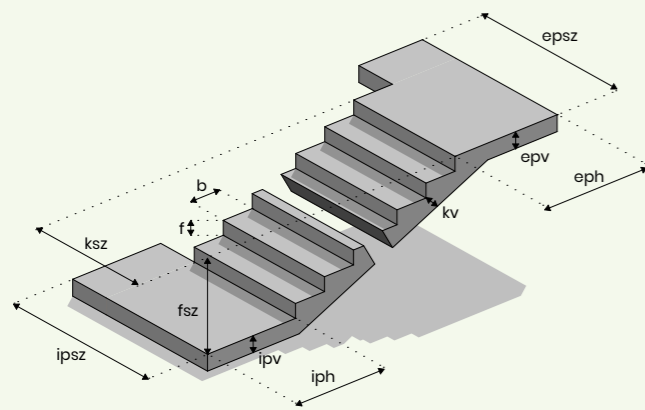
Notation	Geometry
h	max 10 m
m	40-400 cm
v	10-40 cm
vm	0-100 cm
vsz	0-150 cm
tk	=m-vm
bk	10-40 cm
hsz	2-20 cm
kk	7-15 cm



Stairs

IN ORDER TO SPEED UP CONSTRUCTION WORK, PREFABRICATED STAIRS AND REST AREAS PROVIDE AN ECONOMICALLY FAVORABLE, FAST AND ACCURATE OPTION.

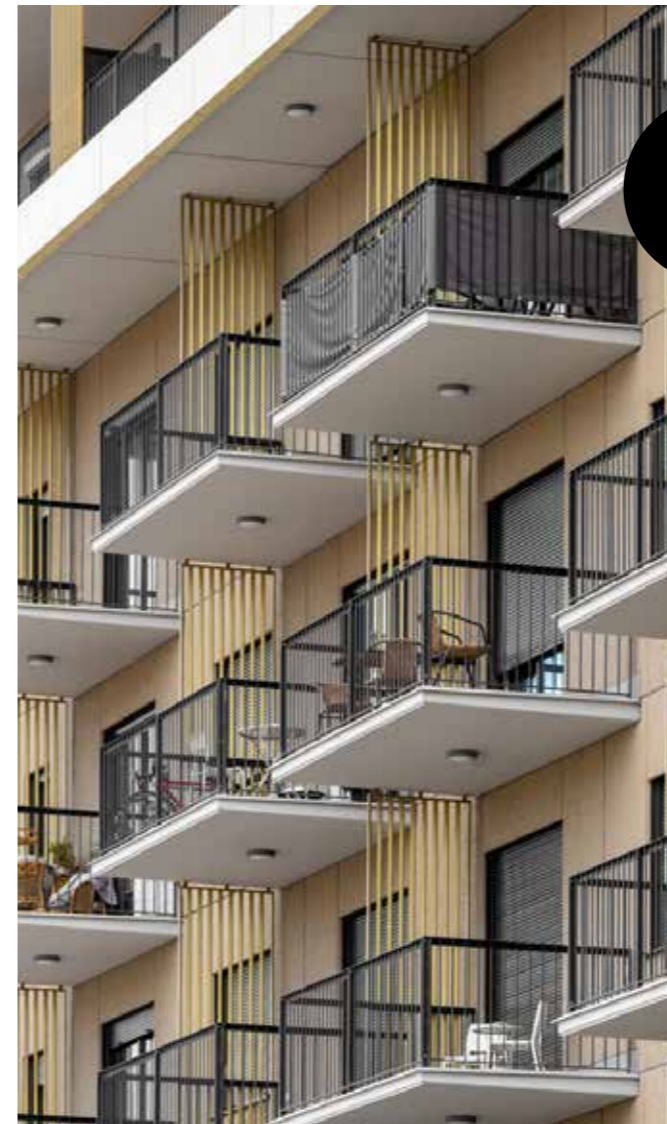
- Labour-intensive on-site formwork can be replaced
- Thanks to the well-thought-out construction system, the speed of construction is accelerated
- The batteries can be loaded immediately after placement
- Due to the formwork palette, there is a wide variety of sizes
- Stairs can be made without rest or with lower and/or upper rest
- Sound protection system can be delivered ready for delivery attached to the product
- The stairs are made with all common up and entry sizes
- The steps can be made in faceted, rounded or cornered designs
- The upper surface of the staircase is made of apparent concrete quality, while the lower surface is plastered, prepared for painting and peeling
- The elements are delivered to the installation site "Just in time", which are placed by the construction company



Notation	Geometry
Flight width (ksz)	max 250 cm
Upper landing width (epsz)	max 250 cm
Lower landing width (ipsz)	max 250 cm
Landing thickness (ipv, epv)	min 12 cm
Flight thickness (kv)	min 12 cm
Lower landing length (ipsz)	max 150 cm
Upper landing length (eph)	max 150 cm
Run (b)	20-32 cm
Rise (f)	15-20 cm
Number of rise (fsz)	max 24 db



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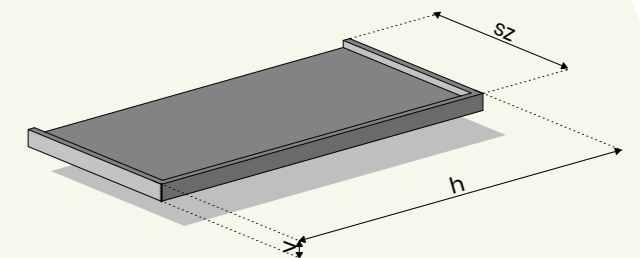
Balcony

PREFABRICATED BALCONY SLABS CAN BE A RATIONAL AND COST-EFFECTIVE SOLUTION IN CONSTRUCTION.

Thanks to its design, it can be installed quickly and safely, so it can be used for new structures or renovation of existing buildings.

Benefits:

- visible surfaces can be formworked
- walking surfaces do not require additional cladding or treatment
- border, rivers, slope integrated
- On-site formwork and concreting can be replaced
- does not require scaffolding
- construction time is significantly shortened
- high quality
- Retrofitting independent of monolithic part of a building
- Just in Time delivery



Notation	Geometry
h	max 250 cm
sz	max 250 cm
v	min 14 cm
diameter	min 10 cm
thermal break	min 8 cm



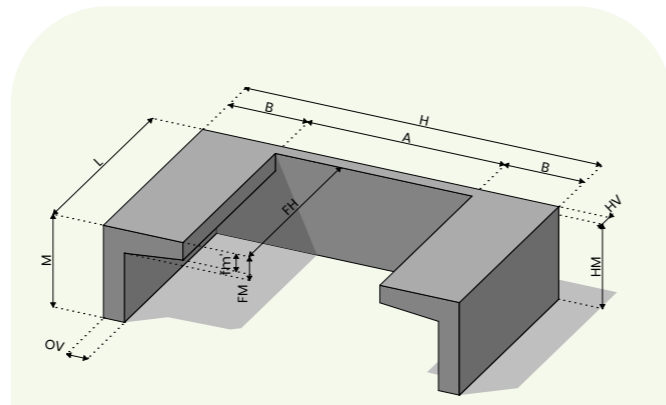
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Loading dock

THE TRUCK DOCKING SHAFT IS AN EXCELLENT STRUCTURE FOR ACCESSING WAREHOUSES, GOODS LOADERS AND DEPARTMENT STORES BY TRUCK AND FORKLIFT.

The elements made by your company are manufactured and delivered in one piece, making installation easier, and if required, the elements can be manufactured separated on their axis of symmetry. Our docking stations are designed to accommodate several types of scissor lift or tiltramps. In order to work with the building structure, the docking element is formed with appropriate connecting ironing.



Notation	Geometry
----------	----------

H	3400, 3200, 3000 mm
A	max 4 m
B	760, 660, 560 mm
FM	230 mm
fm	200, 205, 210 mm
HV	140 mm
M	230-1400 mm
HM	230-1400 mm
L	140-3000 mm
OV	200 mm

Mobil fence

QUICK AND EASY INSTALLED ELEMENT.

For delimitation, road separation or restrict vehicle entry, that also can function as a base for fencing. Items are not certified. Not for public roads, but can be used without problems on private roads and private areas.

Notation	Geometry
H	2000 mm
M	900 mm
SZ	450 mm
volume	0,65 m ³



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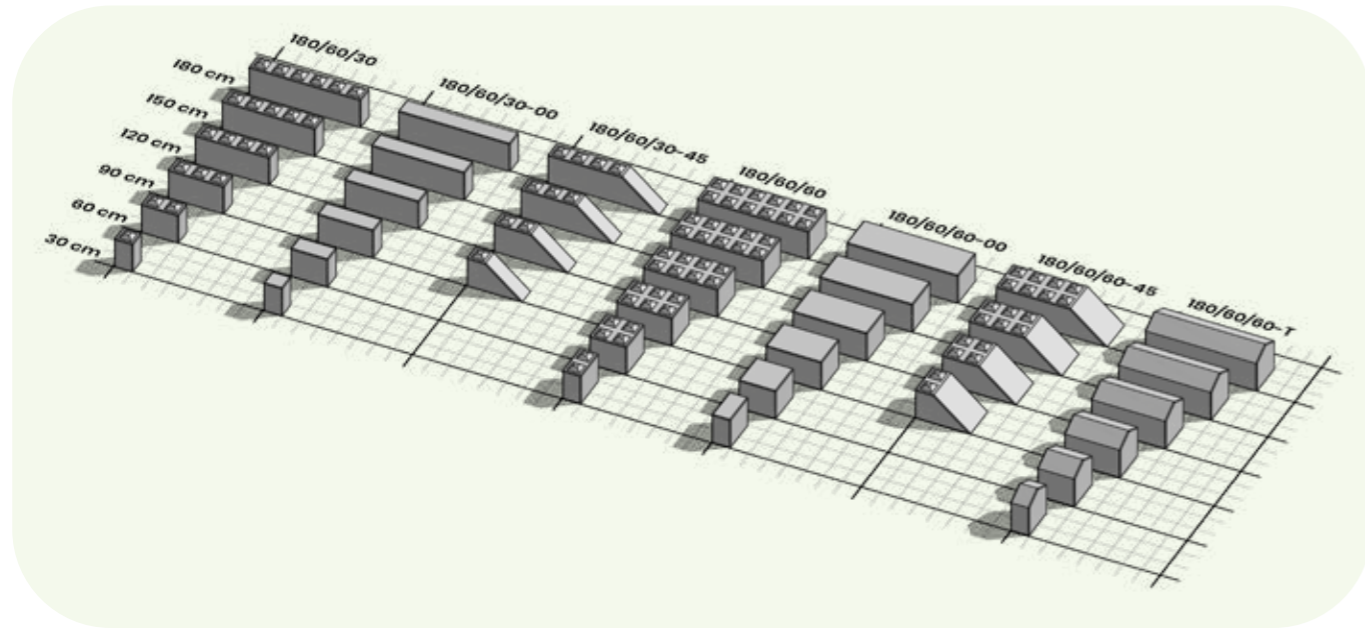


Lego bricks

CONCRETE BLOCK

With our concrete blocks – also known as Lego bricks – we offer a flexible and cost-effective product for temporary buildings, warehouses, bulk material storage, partitioning and retaining walls. Thanks to the simple application, no mounting material is required. The height of the concrete blocks is uniformly 60 cm.

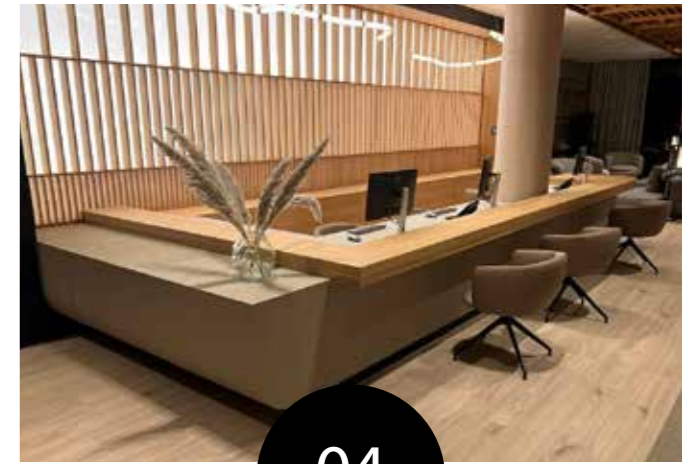
Type	Width: 30 cm	Width: 60 cm
	Height	
L	30, 60, 90, 120, 150, 180 cm	30, 60, 90, 120, 150, 180 cm
00	30, 60, 90, 120, 150, 180 cm	30, 60, 90, 120, 150, 180 cm
45	90, 120, 150, 180 cm	90, 120, 150, 180 cm
T	-	30, 60, 90, 120, 150, 180 cm



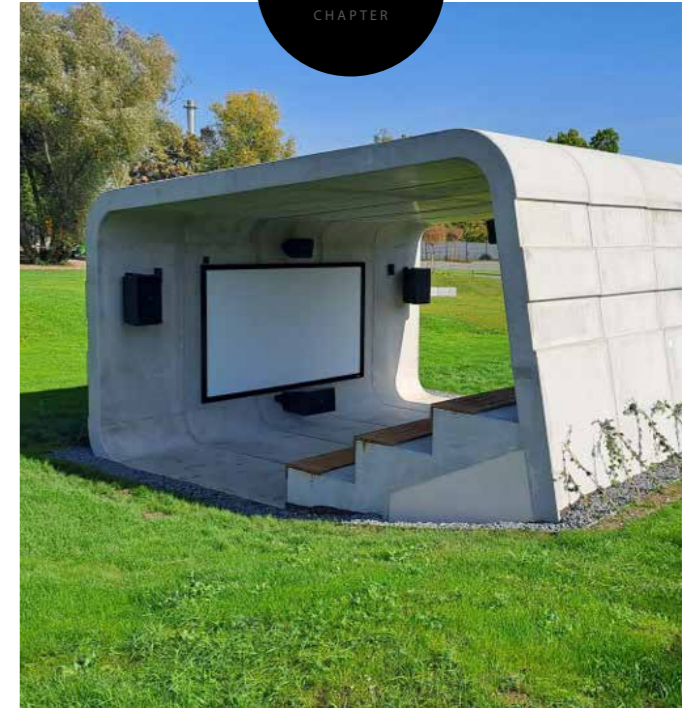
04
CHAPTER

Special products

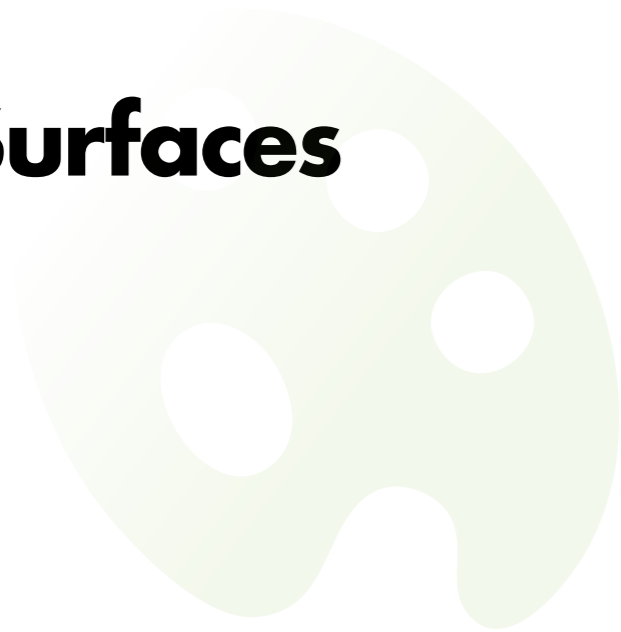
- Concrete counter
- Modular concrete bench
- Garden cinema
- Concrete smoking booth
- Mobil concrete wall
- Step bench



04
CHAPTER



Surfaces



05
CHAPTER

SURFACE POSSIBILITIES



Shuttered



Roughened



Brushed



Washed



Sandblasted



Stickered



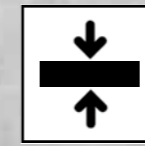
Polished



Pigmented



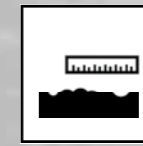
Embossed



Concrete quality
MSZ EN 12390-3



Concrete quality
MSZ EN 12390-3



Surfaceroughness
SB 2



Surface
texture



Abrasion
resistance
MSZ EN 4798



Color
MSZ EN 12878



Weight
~2500kg/m³



Fire resistance
MSZ EN 1992-1-2



UV resistance
MSZ EN 12878



Frost resistance
MSZ EN 4798



Impermeability
MSZ 4798
MSZ EN 12390-8

Results



06
CHAPTER





118.666 m³
produced concrete



24.021 t
of applied concrete

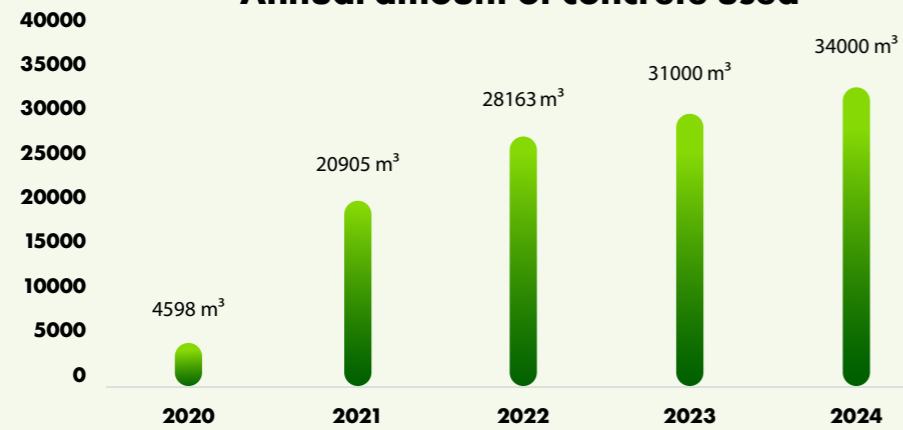


56.816 pcs
of produced items

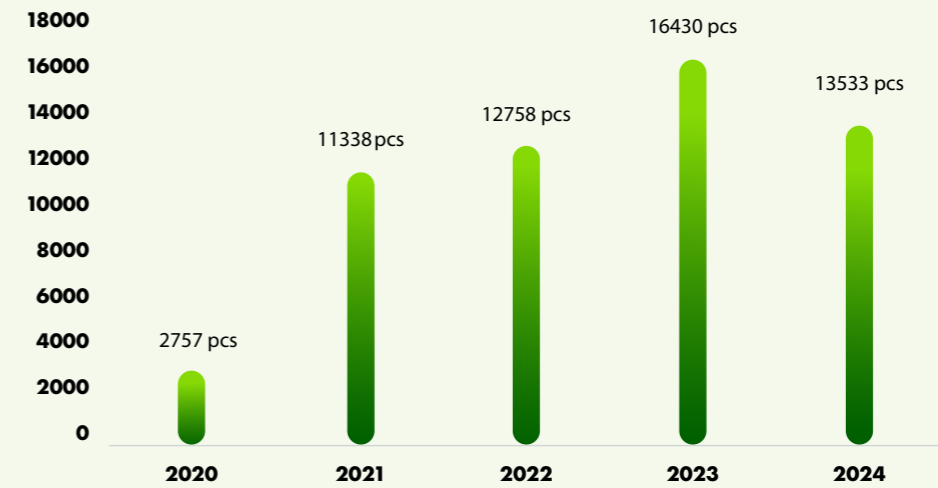


119
closed projects

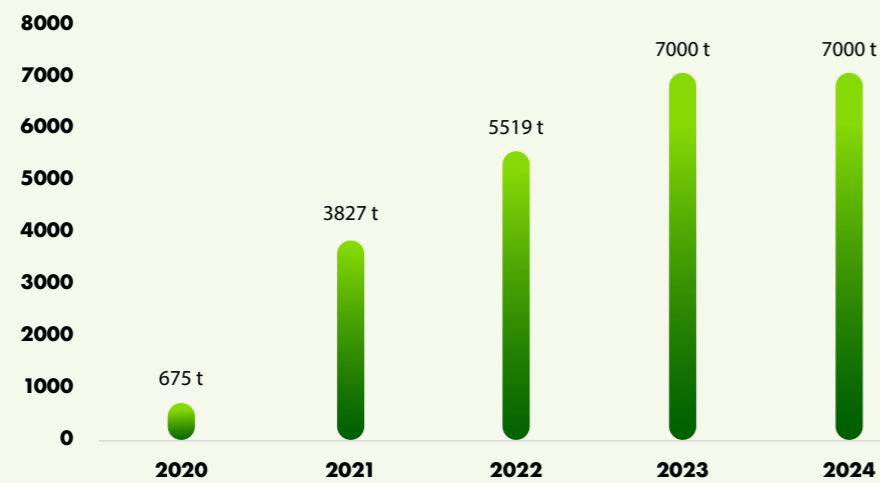
Annual amount of concrete used



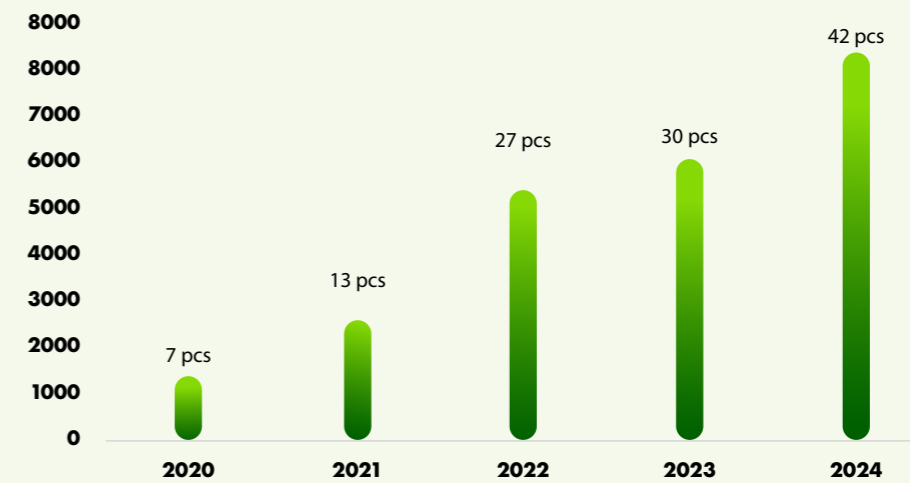
Annual number of produced items



Annual amount of reinforcing steel used



Annual amount of closed projects







References





BAMO-Cobalt, Ács
 Year of handover: 2025.
 Delivered products: complete prefabricated structure
 Floor area: 15.876 m²
 Produced quantity: 3.730 m³

HUNGARORING – Depó, Paddock, Grandstand, Event space, Mogyoród
 Year of handover: 2025.
 Delivered products: complete prefabricated structure
 Produced quantity: 2.492 m³
 Grandstand elements: 1.671 m³

Source: Mihály Nagy / magyarepitok.hu



Horváth Rudolf Intertranszport Kft., Hatvan
 Year of handover: 2024.
 Delivered products: 2 complete prefabricated structure
 Floor area: 40.000 m²
 Produced quantity: 4.375 m³



NIPÜF AirBus, Gyula
 Year of handover: 2022.
 Delivered products: complete prefabricated structure
 Floor area: 13.000 m²
 Produced quantity: 2.150 m³



BudaPart - BOG Hotel and Office, BRF, BRG, BOA, BOIJ, BOH, BOK, BOL, BOM, BRK, BRL
 Year of handover: 2022 – 2025.
 Delivered products: prefabricated sandwich wall panels, stairs, balcony, cover sheets, retaining walls



CATL, Debrecen
 Year of handover: 2022..
 Delivered products: complete prefabricated structure
 Floor area: 23.890 m²
 Produced quantity: 3.945 m³

Inpark, Debrecen
 Year of handover: 2023..
 Delivered products: complete prefabricated structure
 Floor area: 73.000 m²
 Produced quantity: 11.377 m³



Weerts Center, Ebes
 Year of handover: 2024.
 Delivered products: complete prefabricated structure
 Floor area: 22.080 m²
 Produced quantity: 2.463 m³



VGP Aerozone, Üllő
 Year of handover: 2025.
 Delivered products: complete prefabricated structure
 Floor area: 12.163 m²
 Produced quantity: 1.235 m³



CHERVON Car, Miskolc
 Year of handover: 2022.
 Delivered products: complete prefabricated structure
 Floor area: 24.000 m²
 Produced quantity: 4.070 m³





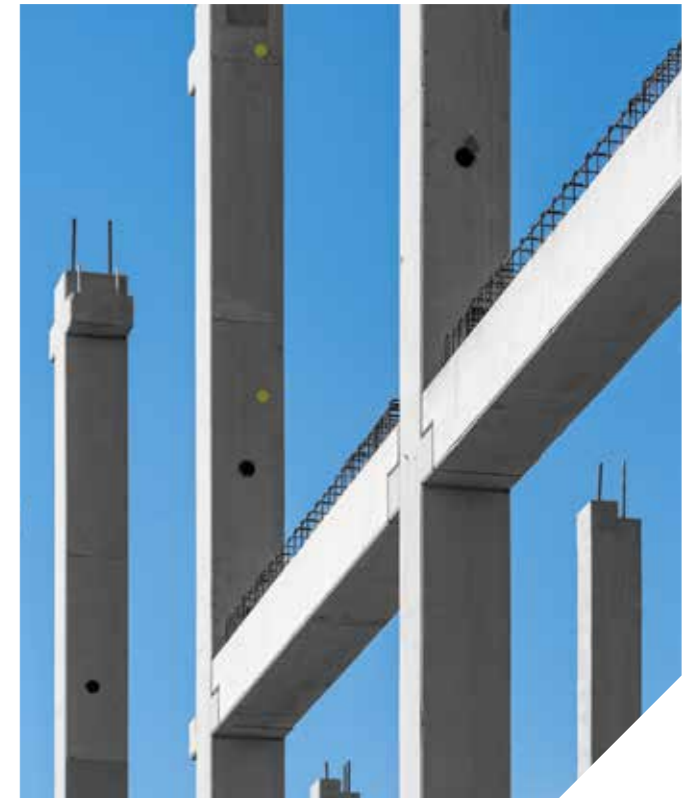
HelloParks MG3, Maglód
 Year of handover: 2023.
 Delivered products: complete prefabricated structure
 Floor area: 46.000 m²
 Produced quantity: 3.630 m³



Euromedic, Budapest
 Year of handover: 2024.
 Delivered products: complete prefabricated structure
 Floor area: 11.800 m²
 Produced quantity: 1.564 m³



HelloParks MG4, Maglód
 Year of handover: 2023.
 Delivered products: complete prefabricated structure
 Floor area: 45.500 m²
 Produced quantity: 4.270 m³





Ongropack, Szirmabesenyő
Year of handover: 2024.
Delivered products: complete prefabricated structure
Floor area: 4.389 m²
Produced quantity: 564 m³



HYDRO Aluminum foundry and office, Székesfehérvár
Year of handover: 2023.
Delivered products: complete prefabricated structure
Floor area: 21.000 m²
Produced quantity: 3.540 m³



JYSK DCE Logistics Center, Ecsér
 Year of handover: 2021.
 Delivered products: complete prefabricated structure

Floor area: 143.000 m²
 Facade wall panel: 20.000 m²
 Produced quantity: 4.780 m³



McDonald's
 Ajka, Baja, Debrecen, Eger, Esztergom,
 Kazincbarcika, Kistarcsa, Kiszvárd, M7 Velence,
 Maglód, Makó, Miskolc, Ózd, Pápa, Pécs, Szolnok,
 Szombathely, Vác, Zalaegerszeg



Lamborghini Car Showroom, Budapest
 Year of handover: 2023.
 Delivered products: complete prefabricated structure
 Floor area: 635 m²
 Produced quantity: 73 m³



SEMCORP lithium-ion battery factory, Debrecen
 Year of handover: 2022.
 Delivered products: complete prefabricated structure
 Floor area: 48.000 m²
 Produced quantity: 5.900 m³



Siemens, Budapest
 Year of handover: 2023.
 Delivered products: complete prefabricated structure
 Floor area: 17.000 m²
 Produced quantity: 3.660 m³



SK Iváncsa Battery factory, Iváncsa
 Year of handover: 2022.
 Delivered products: complete prefabricated structure
 Floor area: 30.000 m²
 Produced quantity: 2.900 m³



Panattoni City, Törökbálint
 Year of handover: 2023.
 Delivered products:
 complete prefabricated structure
 Produced quantity: 2.130 m³

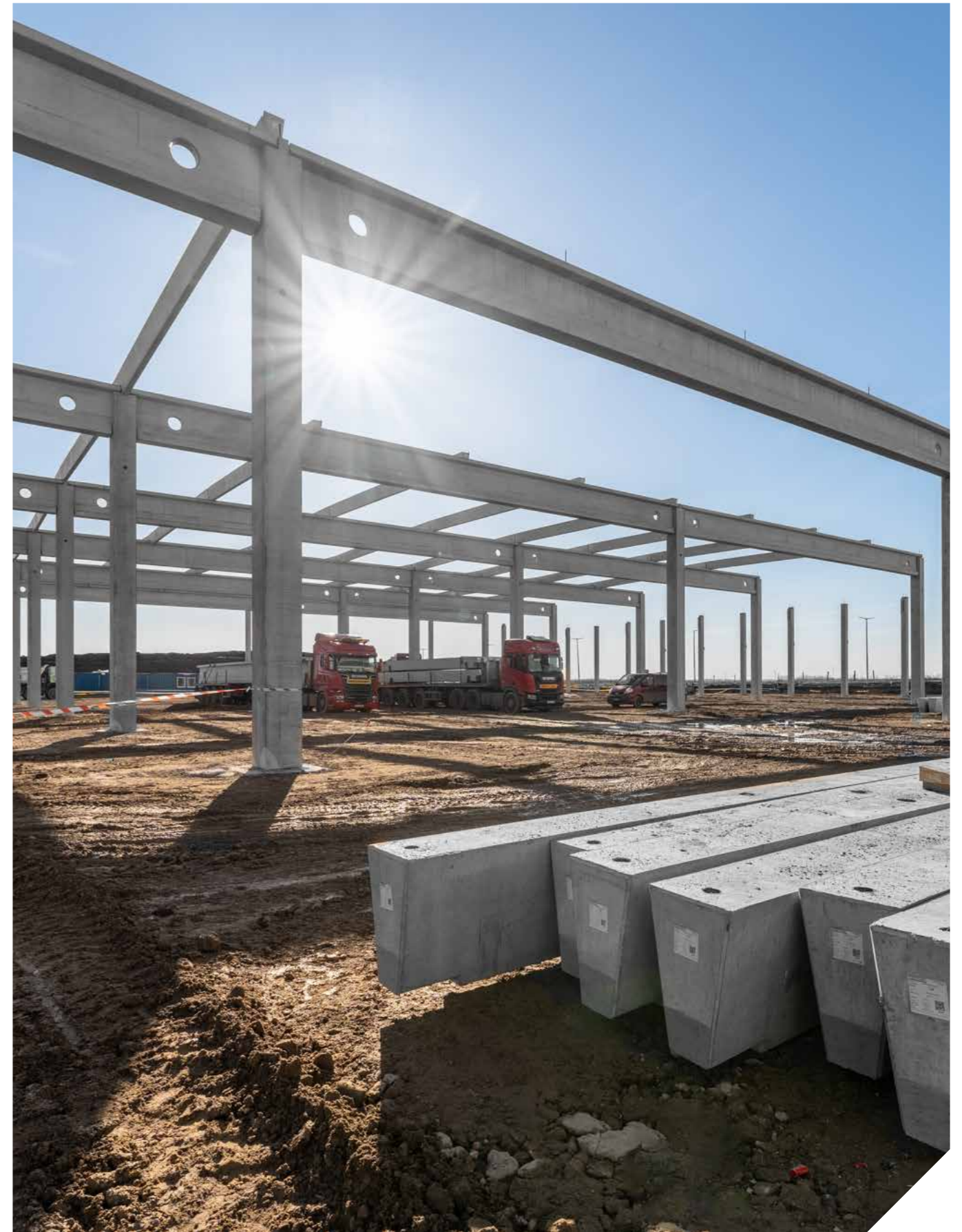
Floor area:	
A building:	3.382 m ²
B building:	4.178 m ²
C building:	5.553 m ²
D building:	4.178 m ²



Mercedes, Kecskemét
 Year of handover: 2024.
 Delivered products: complete prefabricated structure
 Floor area: 67.715 m²
 Produced quantity: 4.328 m³



Benepack, Makó
Year of handover: 2024.
Delivered products: complete prefabricated structure
Produced quantity: 3.642 m³



ZF Panattoni, Kecskemét
Year of handover: 2024.
Delivered products: complete prefabricated structure
Floor area: 17.703 m²
Produced quantity: 1.670 m³

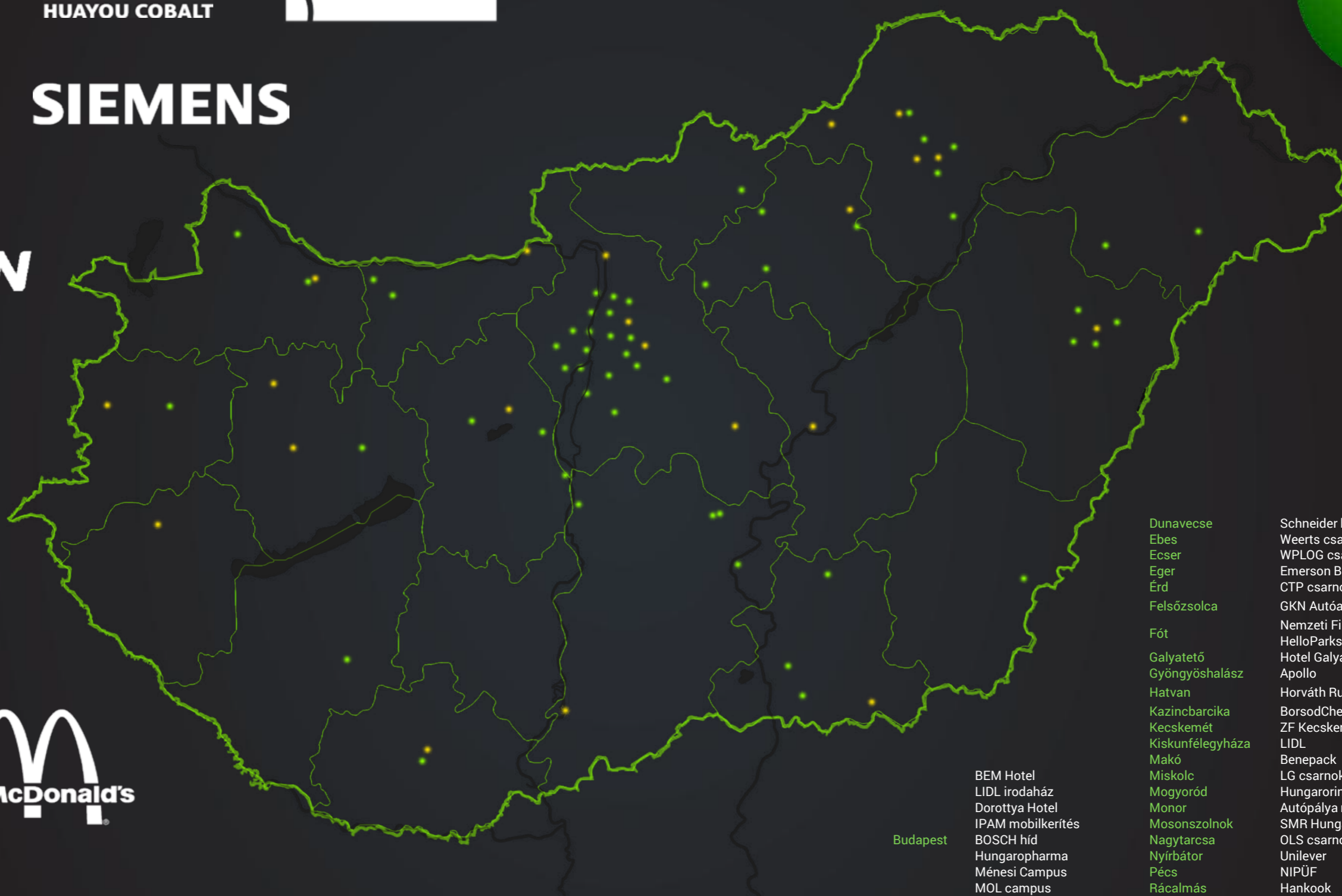


Completed
key
projects

CATL SIEMENS

CHERVON

inpark



Ács
Alsónémedi
Bátonyterenye
Biatorbágy
Budaörs
BAMO - Cobalt
HAVI Csarnok
Alukov III. ütem
UTT csarnok
KÜRT raktár

Budapest

Bugyi

Debrecen

BEM Hotel
LIDL irodaház
Dorottya Hotel
IPAM mobilkerítés
BOSCH híd
Hungaropharma
Ménési Campus
MOL campus
Dürer park
OBO Csarnok
BMW
EcoPro
INPARK
LAUDA - PRIORG
Szakály csarnok
Univill csarnok

Dunavecse
Ebes
Ecser
Eger
Érd
Felsőzsolca

Fót
Galyatető
Gyöngyöshalász
Hatvan
Kazincbarcika
Kecskemét
Kiskunfélegyháza
Makó
Miskolc
Mogyoród
Monor
Mosonszolnok
Nagytarcsa
Nyírbátor
Pécs
Rácalmás
Szeged
Szentendre
Szirmabesenyő
Újfehértő

Üllő
Vecsés
Sárvár

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Weerts csarnok
WPLOG csarnok
Emerson Blue
CTP csarnokok
GKN Autóalkatrész gyártó üzem
Nemzeti Film Intézet
HelloParks
Hotel Galya
Apollo
Horváth Rudolf Intertransport Kft.
BorsodChem
ZF Kecskemét
LIDL
Benepack
LG csarnok
Hungaroring
Autópálya mérnökség
SMR Hungary
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NIPÚF
Hankook
PICK
ÉMI
Ongropack
Szabolcsi Alma centrum
Autonet Logisztika
VGP Aerozone
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