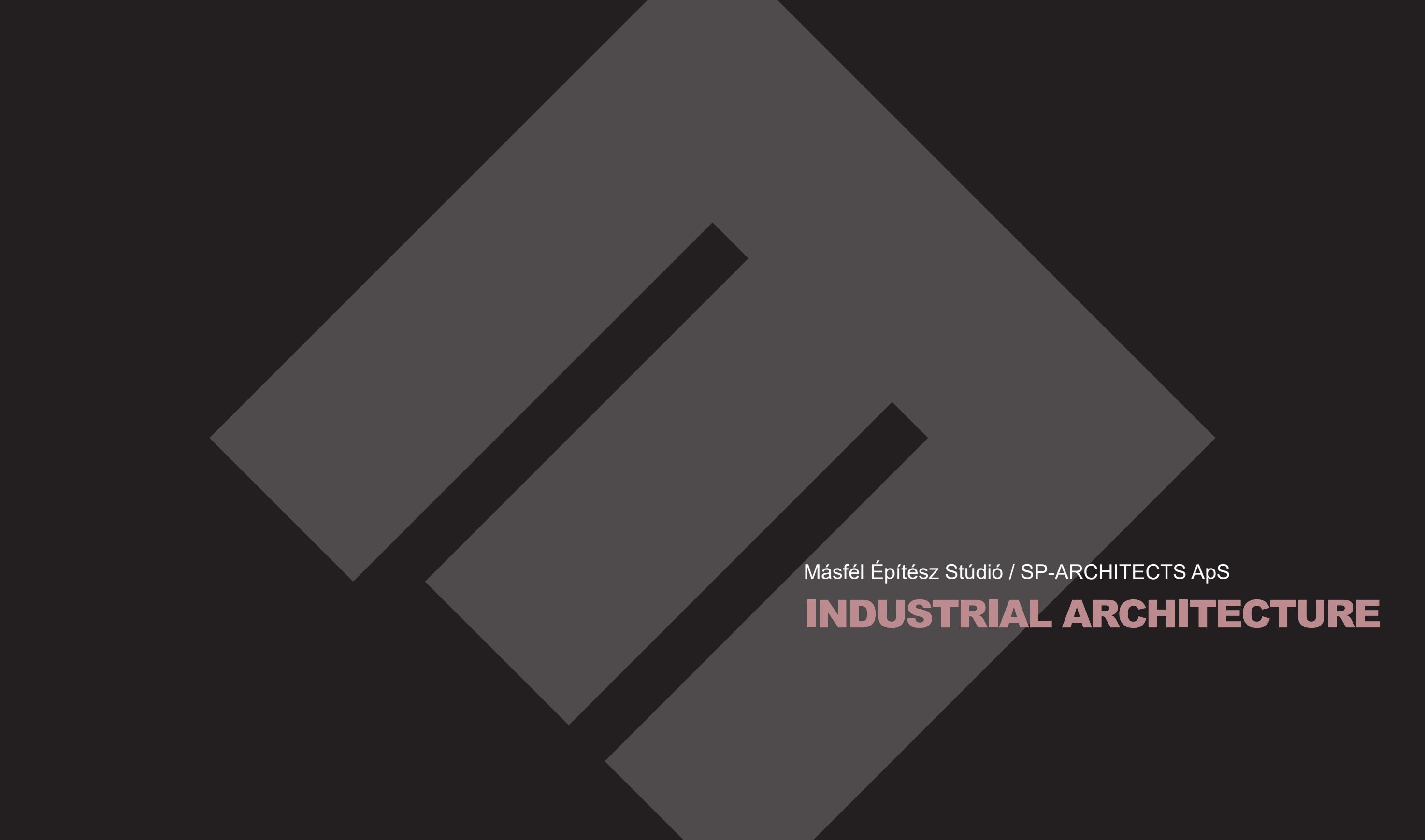




Másfél Építész Stúdió / SP-ARCHITECTS ApS

INDUSTRIAL ARCHITECTURE

ABOUT US:

Másfél Építész Stúdió Kft. is associated with the name of Pro Architectura award-winning architect **Péter Sebestyén DLA** and is currently based in Pécs. The office employs 6 people full-time, and their work is assisted by 2 interns on a permanent basis. Larger or more complex tasks are solved by involving permanent architect subcontractors; thus, two sole proprietors are also integrally part of the office. The design team has been working with the same team of specialist subcontractors for several years, all of whom are recognized professionals. Similar to the design studio, the specialist designers are capable of interactively adjusting their capacity to suit the tasks at hand.

Our office is located in Pécs, on Király Street. It is a 133 m² creative space that provides sufficiently spacious and sophisticated room for coordinating large-scale projects. The office is capable of efficiently designing everything from very small jobs to medium-sized projects of 50-100 million HUF and large projects of 3-6 billion HUF using state-of-the-art methods and with outstanding quality. This outstanding quality has been rewarded by the profession with several professional awards.

Our office is planning to open up to taking projects in Denmark. To facilitate the smoother management of these projects, a Danish-based company, **SP-Architects ApS**, has been established, which functions as a sister company to Másfél Építész Stúdió Kft.

The design studio is capable of delivering work continuously in reliable quality and on time at an affordable price. We undertake the full management of building permit procedures and other official administration. We also provide interior design services for the buildings designed by us.

CONTACT US:

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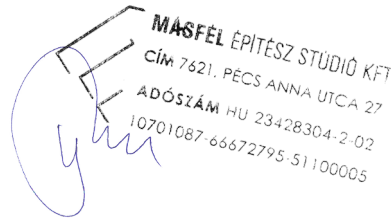
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2026



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01

DESIGN OF INDUSTRIAL HALL BUILDINGS

Over the past decade, our office has designed hall buildings with a total floor area of over **100,000 m²**. These include prefabricated **reinforced concrete**, **steel**, as well as **glued laminated timber** structures.

In cooperation with specialist designers for various industrial and agricultural projects, we have designed a significant number of long-span structured building in recent years. We work with completely new hall buildings built as greenfield investments, but our portfolio also includes the expansion and change of function of existing industrial buildings. Our office has an in-depth knowledge of the construction systems applied in architecture of long-span structures. We work agilely together with our structural specialist designers in the most diverse construction systems.

LOCATION: DALMAND - FELSÖLEPERD
CATEGORY: PIG REARING PLANT
DATE: 2021
SIZE: 8.300 m²

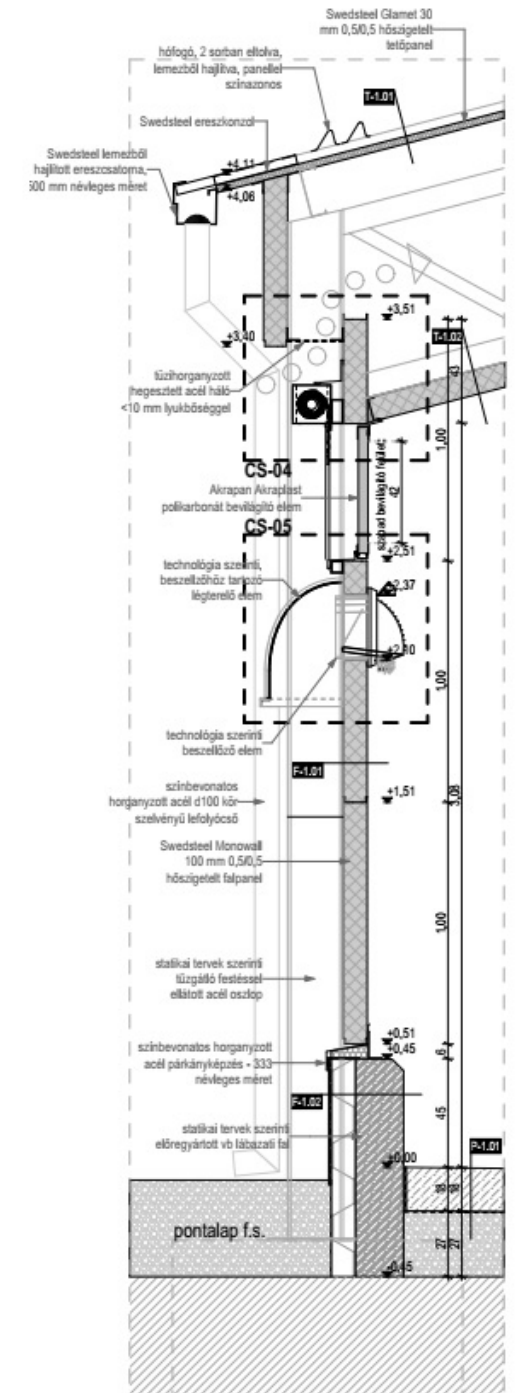
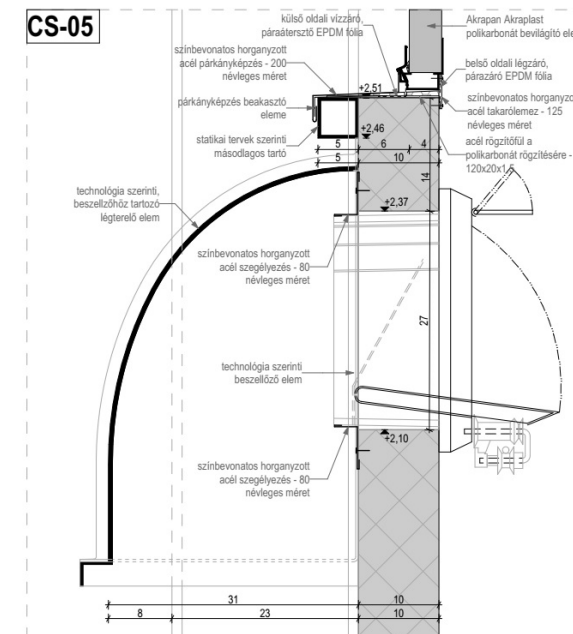
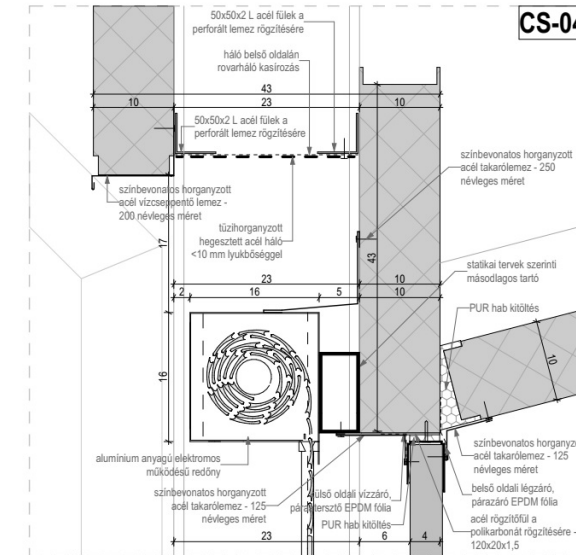






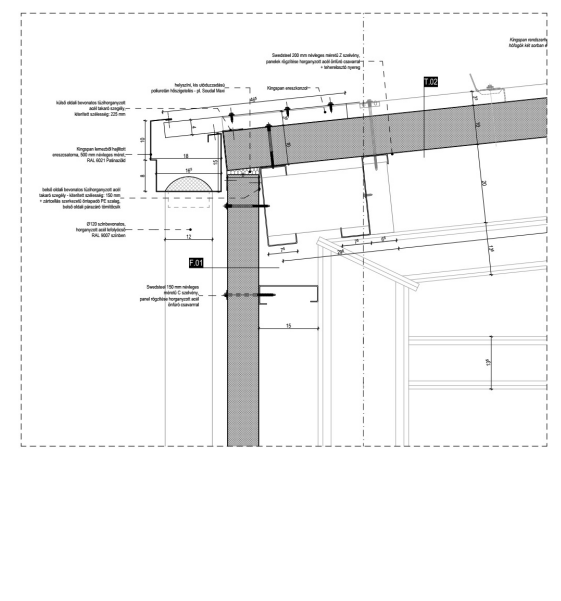
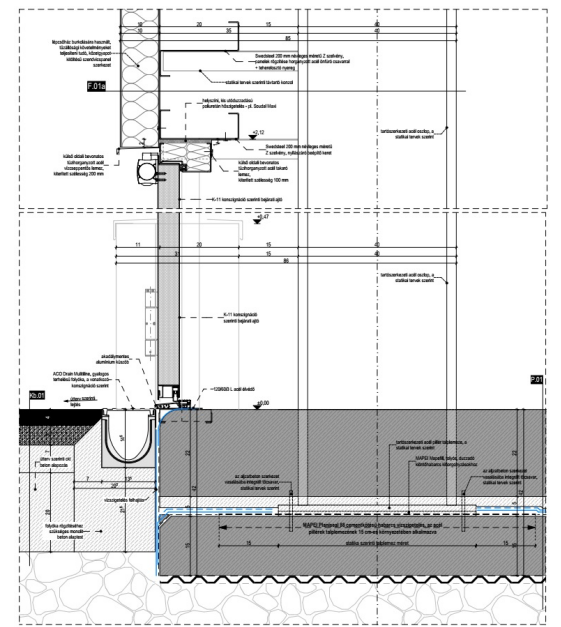
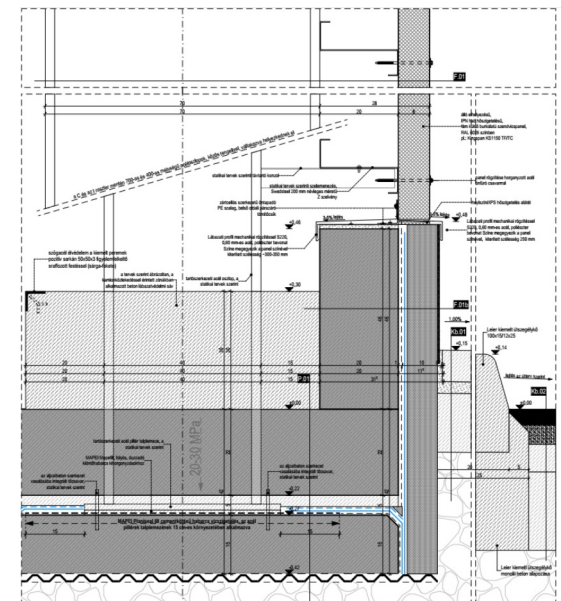
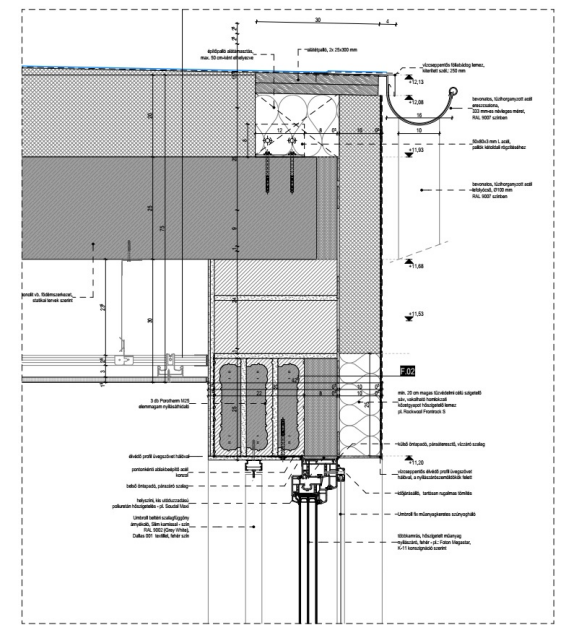
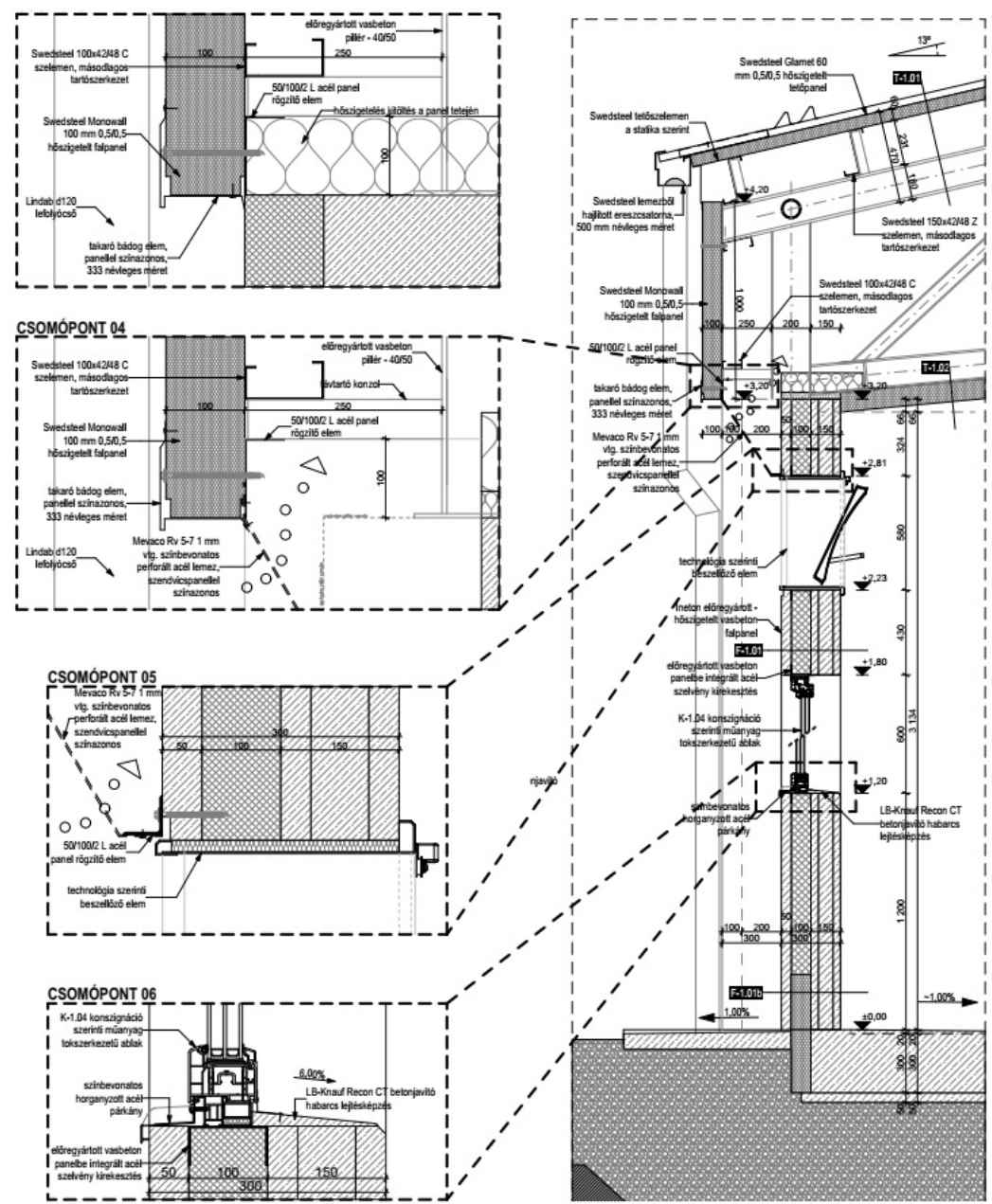
02

ARCHITECTURAL DETAILING



During our **25 years** of work, we have had the opportunity to create structural details for a significant number of construction projects. Whether these are halls with sandwich **panel cladding**, **masonry structures**, or prefabricated reinforced **concrete crust walls**, we have the necessary expertise and standard structural details for them.

To ensure the smooth execution of industrial buildings, the high quality of architectural detail drawings is of paramount importance. Our office has completed a significant number of construction projects over the past decades. During the course of the projects, we had the opportunity to filter and perfect the quality of these details. Since technical optimization is always the main goal in the design of industrial buildings, the detailing provides an opportunity to elevate the aesthetic quality of the buildings with our architectural design experience.



03

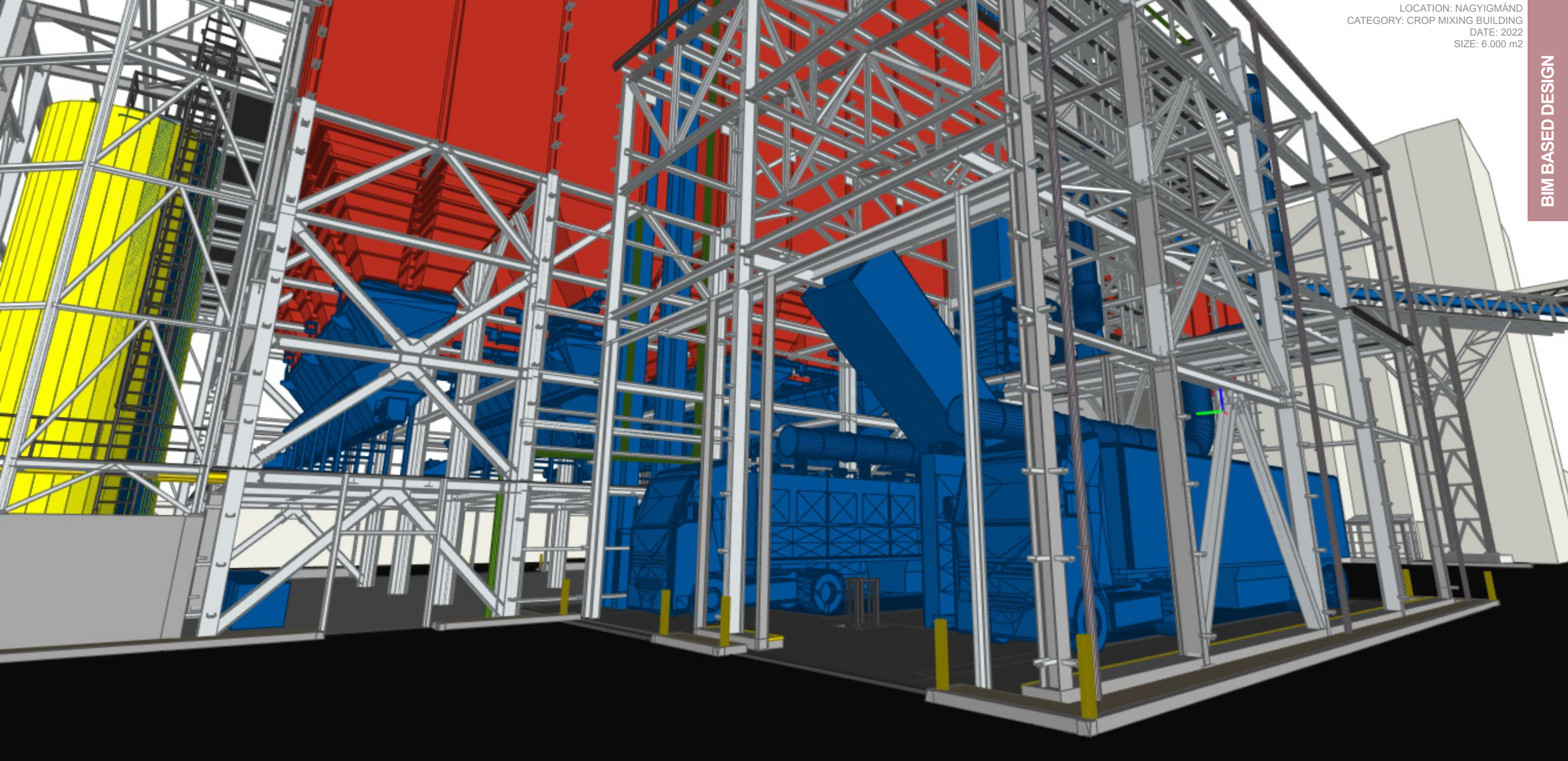
TECHNOLOGY-ORIENTED BIM-BASED DESIGN

Since the earliest point of our office's existence, we have been working with the **3D** tools of the **Archicad** software suite. In the case of highly technology-oriented buildings, 3D methodology is particularly important for clash detection of the load-bearing **structure**, **mechanical** and **electrical** systems, and **industrial technology** systems.

In our working methodology, we work with 3D technology from the earliest stages of design. Thus, if we also have the opportunity to receive data supply in 3D format from our specialist colleagues, we can avoid collisions during construction to a large extent. In addition, the IFC files created with BIM methodology can be suitable for extracting quantities of building structures, preparing budgets, and creating construction schedules. For industrial buildings, this BIM-based methodology is exceptionally important to achieve the most optimally designed building system capable of accommodating the technology.



LOCATION: KISÚJSZÁLLÁS
CATEGORY: POULTRY REARING PLANT
DATE: 2024
SIZE: 19.500 m2



04

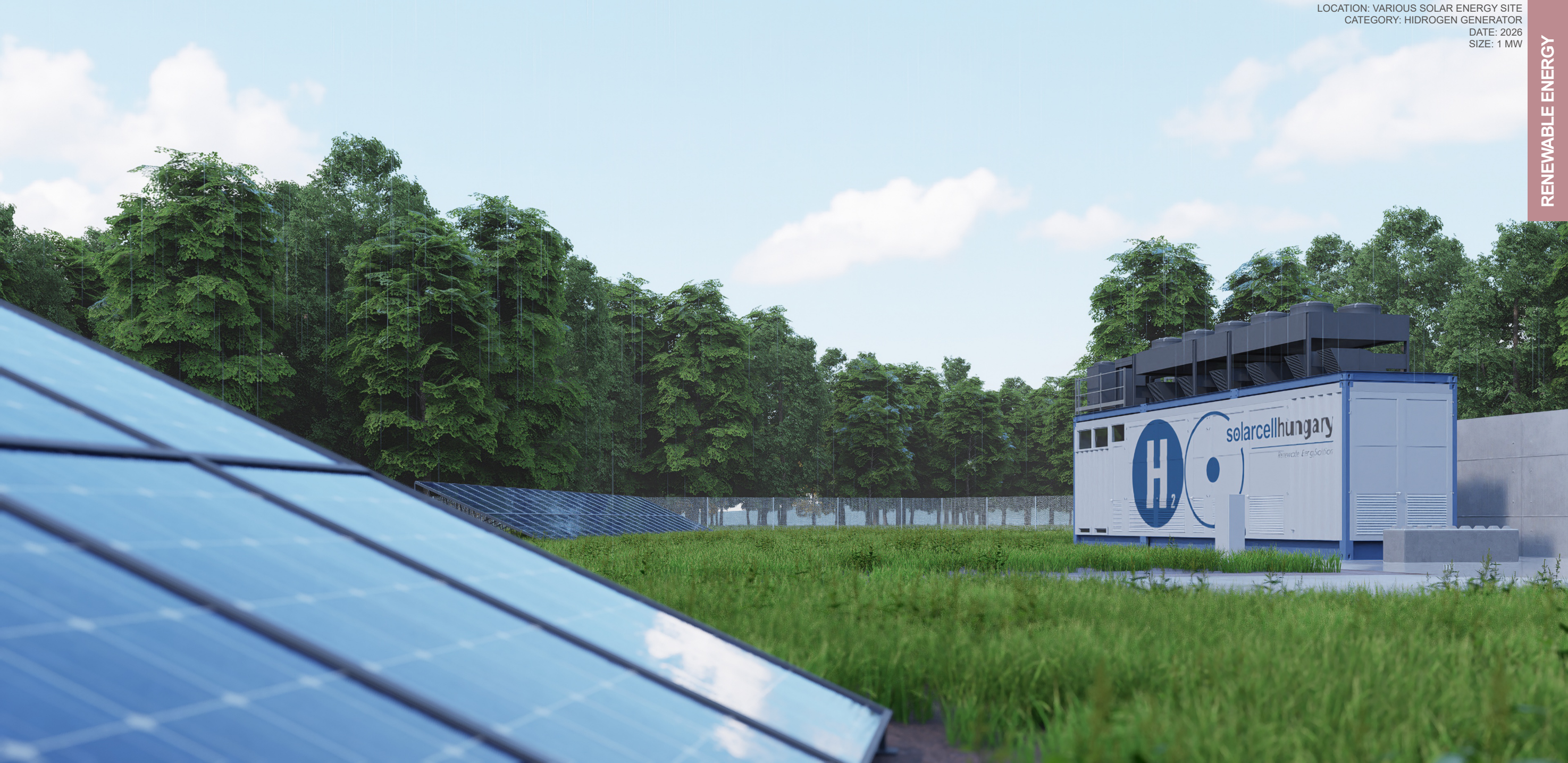
RENEWABLE ENERGIES

The relatively high energy demand of industrial buildings and the huge roof surfaces of hall buildings usually provide a good opportunity for the application of renewable energies. Over the years, we have worked with **solar panels**, water-air **heat pumps**, **hydrogen** technology, **geothermal** energy, and liquid **manure recycling**.

In both our hall design projects and our separate projects for the development of renewable energy producers, we consider the support of green and renewable energies to be of utmost importance. In the case of hall buildings, together with our energy specialist designers, we strive to optimize the thermal insulation values of the buildings. For livestock buildings, we take into account the amount of energy generated by the animals' body heat and incorporate this into the energy calculations. In most of our projects, we equip the roof surfaces of the hall buildings with solar panels, which can simultaneously produce green energy and optimize costs during the operation of the buildings.



LOCATION: DALMAND - FELSÖLEPERD
CATEGORY: PIG REARING PLANT
DATE: 2021
SIZE: 8.300 m²

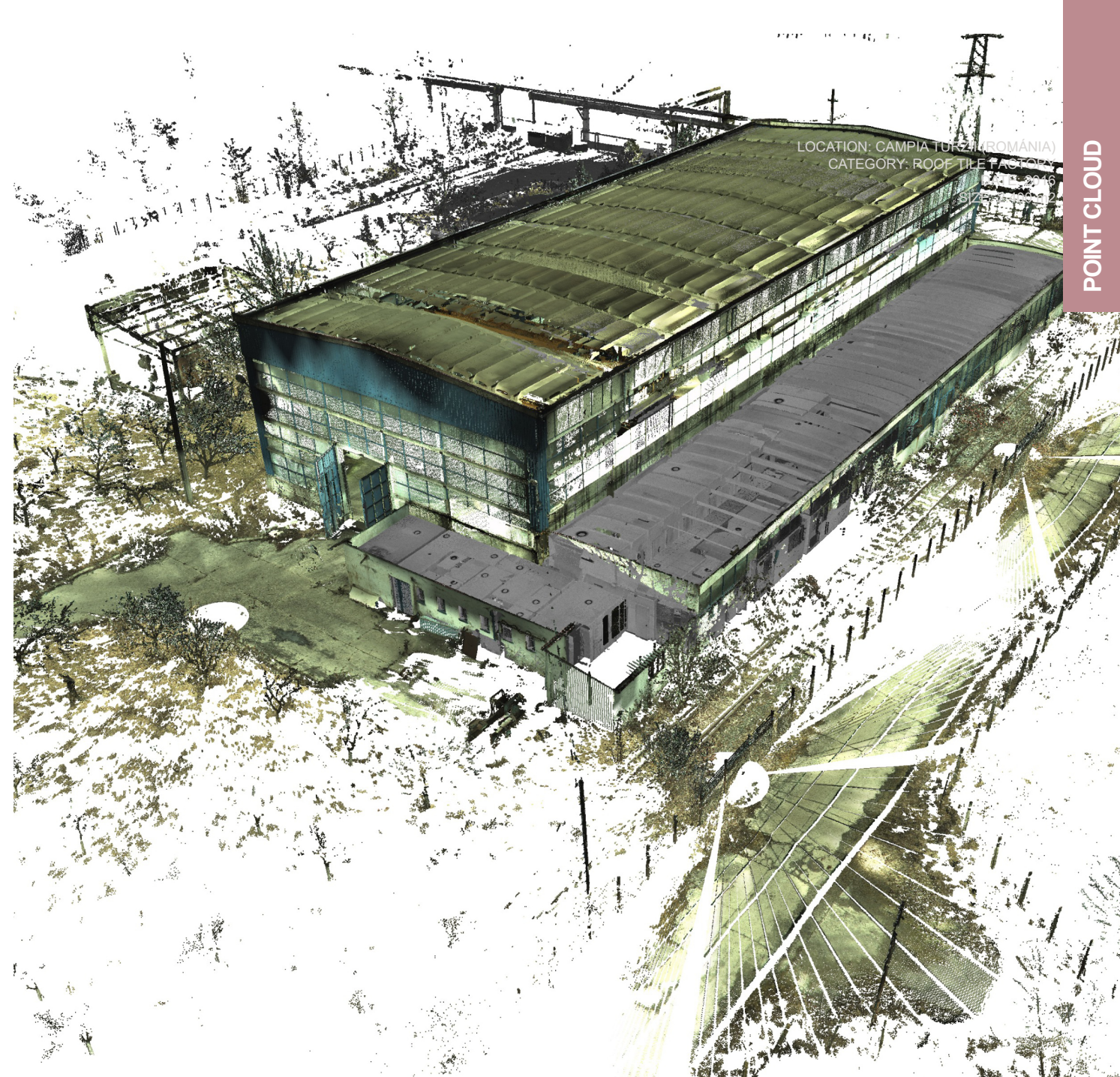


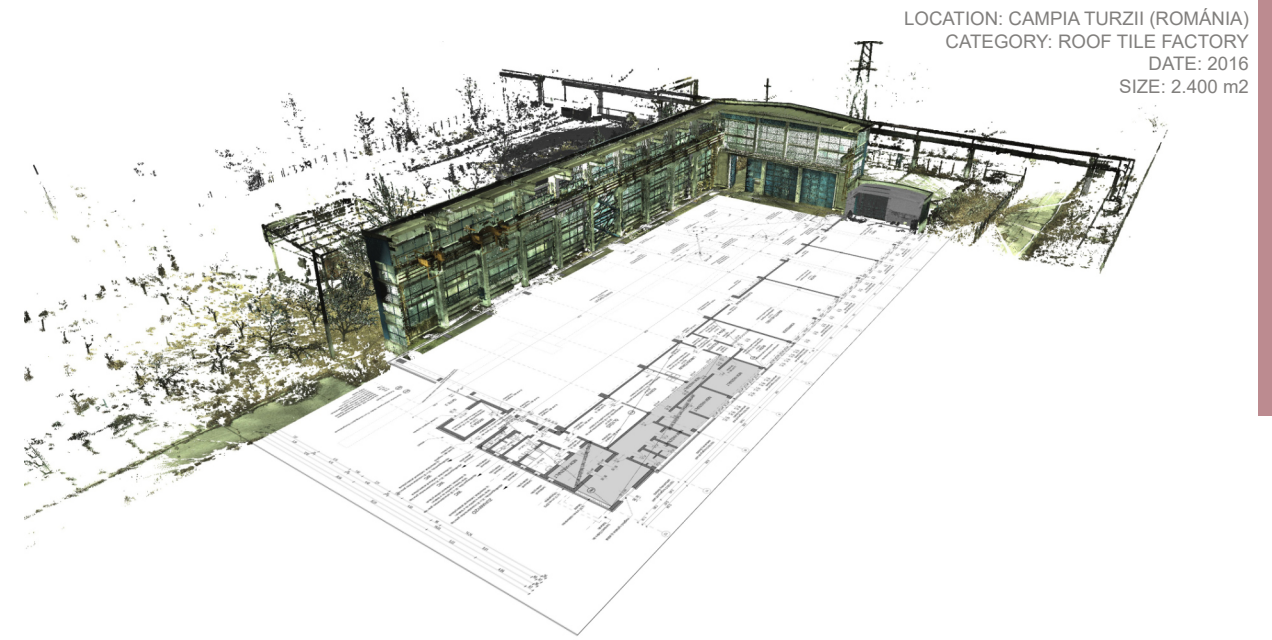
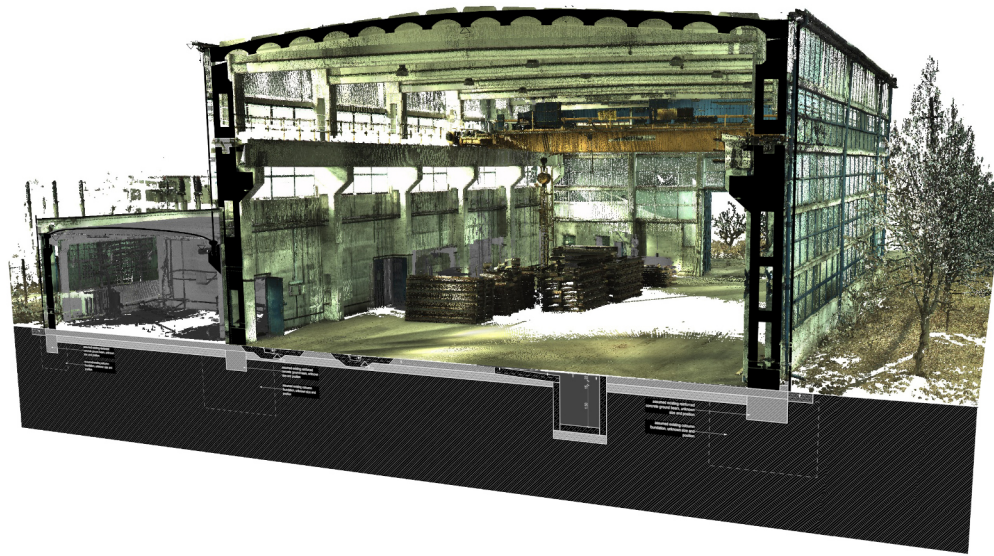
05

POINT CLOUD-BASED SURVEYS

Point cloud-based surveys provide significant **extra accuracy** and considerably **accelerate the design process** of the renovation, expansion, and functional change works of existing industrial halls.

Our office has been working with point cloud-based surveying technology for over 10 years. We have deep insights into the hardware background of creating point clouds and know their various technical methodologies, while also being well-versed in the software background of processing point clouds. Point cloud-based surveys are suitable for detecting dimensional shifts during construction that are undetectable by manual surveying. Furthermore, according to our experience, in the case of surveying larger buildings, the preparation of standard dimensional accuracy survey plans can be significantly accelerated with point cloud-based technology.





LOCATION: CAMPIA TURZII (ROMANIA)
CATEGORY: ROOF TILE FACTORY
DATE: 2016
SIZE: 2.400 m2



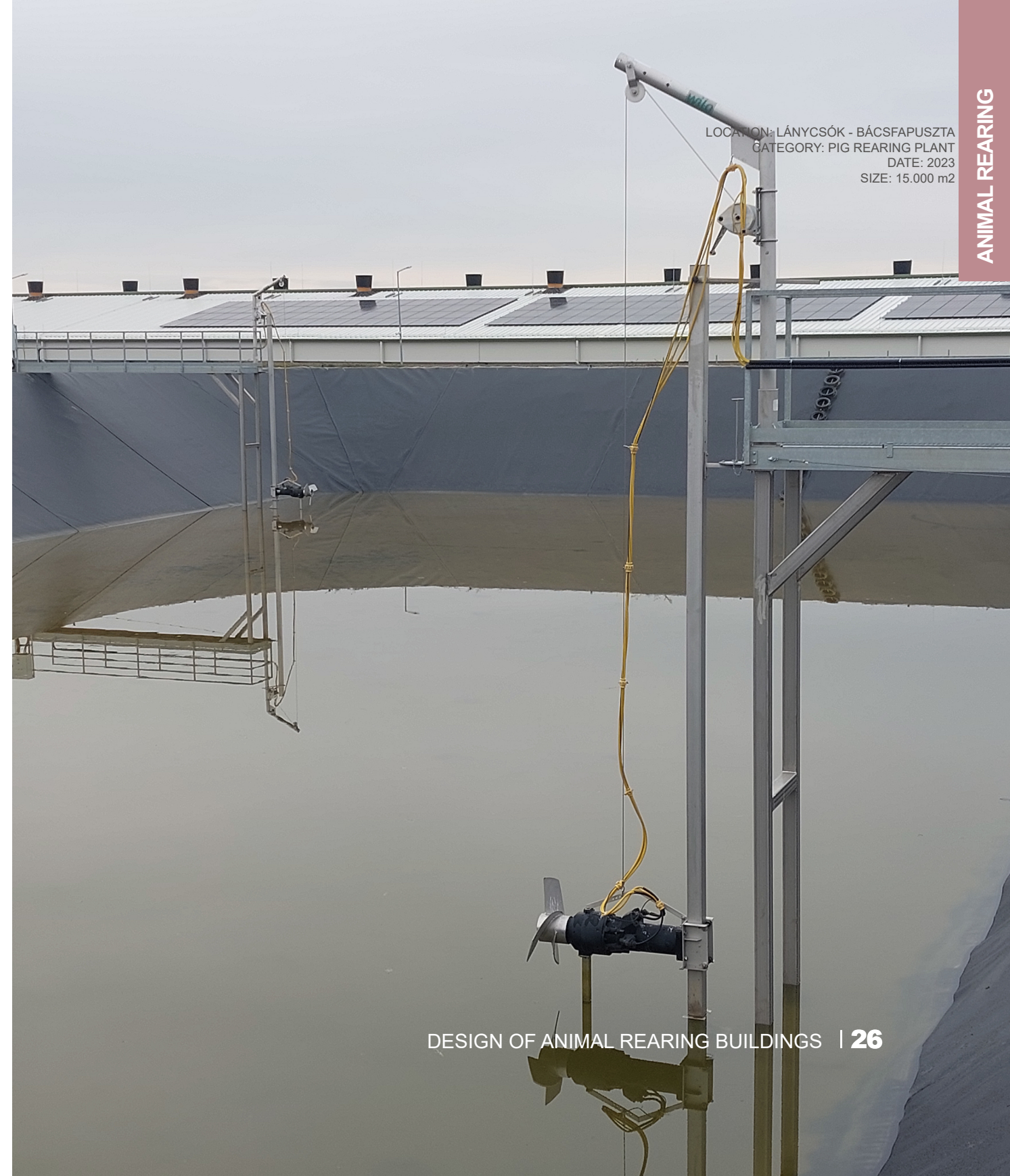
LOCATION: TAB
CATEGORY: LEAN LIFT, EXPANSION
DATE: 2023
SIZE: 100 m2

06

DESIGN OF ANIMAL REARING BUILDINGS

Within the category of industrial buildings, the design of animal rearing buildings has represented the largest segment in our office. We work on the most diverse types of projects for **pig** and **poultry** rearing buildings.

At first glance, animal rearing buildings may seem like buildings with simple designs. A large number of animals accommodated in a large, empty space. However, behind this there is still depth and refinement in animal husbandry technology. Significant challenges in these buildings include, for example, the management of liquid manure, ensuring proper drinking water quality, creating sufficient security and CCTV systems, and the design of the heavy freight traffic of the sites. Besides these, we must keep animal welfare aspects in mind, and alongside all this, the cost optimization of the buildings is of extreme importance.



LOCATION: LÁNYCSÓK - BÁCZFAPUSZTA
CATEGORY: PIG REARING PLANT
DATE: 2023
SIZE: 15.000 m2







07

DESIGN OF FOOD INDUSTRY BUILDINGS

In a narrower industrial segment than the design of animal rearing buildings, our office's most practiced field of expertise is the **food industry**.

In the food industry segment, the biggest challenge is the harmonization of public health and hygiene regulations with the building systems. In addition, the technological equipment of the food industry provides us with new challenges in every single job. These are typically unique machines both in their size and operation, requiring not only unique space requirements but also rooms with different temperature needs. Thus, we always feel it is an interesting design challenge when a -20 C° shock-cooling room and ovens operating at over 100 C° must be linked together in a single technological sequence.





08

DESIGN OF VEHICLE MAINTENANCE AND SERVICE BUILDINGS

In the previous few years, we had the opportunity to glimpse into the world of vehicle maintenance and service building design at several sites of the **Scania Group**, where usually we had to **expand their existing hall buildings**, or **install new technological equipment** within them.

One interesting challenge of working with Scania was that we had to cooperate with the Slovakian representation of the Swedish group. Thus, in many cases, we had to harmonize the technical and financial systems of other countries with our own familiar methodologies in Hungary. Furthermore, the servicing technologies of large and heavy commercial vehicles, which entail interesting structural implications, had to be brought into harmony with the existing structures of the existing buildings. In these building modernization projects, we had to create an interesting balance between cost-effectiveness, existing conditions, technological operability, and the applicability of sustainable energies.



LOCATION: LÉBÉNY
CATEGORY: VEHICLE MAINTENANCE
DATE: 2022
SIZE: 160 m²

SCANIA



09

INTERIOR DESIGN FOR INDUSTRIAL BUILDINGS

Drawing from our 25-year architectural background, we can competently approach the **interior design** of representative spaces in industrial buildings. In industrial buildings, the well-directed display of the **brand's logo** can significantly contribute to the **marketing success** of the corporate group.

In the case of designing industrial buildings, the application of representative architectural solutions may also be necessary at several points. Usually, it is important first to feature the logo of the relevant group on the building facade, or perhaps on a totem pole placed in front of the facade. Furthermore, for industrial buildings, it may also be necessary to create a representative spatial sequence that leads us from the site entrance, through the building entrance, and from the reception to the site's meeting room. It often happens that the sites are visited by high-ranking decision-makers in financial matters, upon whom it is important for corporate groups to make a good impression.

