

Architectural Facade Systems
CEME Division

Case Study Technopolis



CASE STUDY

TECHNOPOLIS

Project name:
Technopolis Nova

Type:
Business Park

Location:
Vilnius, Lithuania

Investor:
UAB Technopolis Ozas

Architect:
UAB Unitectus

Start of the construction: 2019
End of the construction: 2020

Product:
Karrier BK + ceramic tiles

Colour:
Karrier BK: R7016
Colours of ceramic tiles: 407 (white), 414 (grey), 4230 (glossy white)

Façade Area:
4 400 m²



Project Highlights:

The Technopolis Nova office building was opened in 2021. The area of over 26,000 m². meters was designed by Tumas Mazuras and Egle Olisauskyte according to the concept of the Finnish architect Jari Lonka. The design idea of the project was to create a sense of flow of the people in all common areas. That is why the ground floor is open to the general public. The style of the interior was inspired by Scandinavian simplicity, natural materials and rational simplicity. On the ground floor of the LEED Gold certified, A+ energy class building there is a café, MIN Food court, conference center as well as a cozy room for relaxing and meditating. The second floor of the building is intended for smaller offices with a common infrastructure. The tenants of this floor will share a cozy kitchen, modern meeting rooms and other spaces for gathering or meetings. There will also be a sports area for Nova tenants, with regular group activities.



„We were looking for a façade solution that will provide great aesthetics as well as durability.“

Tumas Mazūras, Unitectus UAB

The Challenge:

The Key challenge when designing facades of the Nova building was to use different types of cladding with various colours and textures and at the same time comply with A+ energy class. That is why it was essential to have a high performance load bearing insulation panel that will be suitable even for the heaviest of claddings (such as ceramic tiles), easy and fast to install and at the same time A+ energy class compliant. Kingspan Karrier BK was the best solution to meet those challenges.

The Result:

The ceramic cladding adds a sense of style to the whole building. The tiles look very stylish and effortless. Yet, the key component of the façade – the Karrier BK panel is hidden behind the façade. Karrier BK is not about the look. Karrier BK is about durability and speed. It works with actually any cladding available.



Product Information:

Karrier BK is a modern architectural facade system with a IPN core, based on a sandwich panel specially designed and certified to transfer loads from the external facade cladding. A wide range of external cladding from leading manufacturers can be attached to Karrier panels. Karrier system allows you to build a weatherproof building envelope in a much shorter time compared to other alternative systems.

- Karrier can successfully replace traditional external wall and/or ventilated facade.
- Karrier system is about speed and simplicity. Can be installed in all weather conditions.
- Can be installed vertically and horizontally.
- System has excellent thermal and sound insulation properties as well as fire performance.
- Karrier system can be installed with almost any type of external cladding solution available on the market including: prefabricated aluminium cassettes Dri-Design, HPL, ACM, Fibercement, Ceramic or expanded Mesh.



Interview:

Interview with Architect: **Tumas Mazūras, Unitectus UAB**

1. Why you have chosen Kingspan Karrier BK system in your project?

TM: We were looking for a facade solution that will provide great look and aesthetics as well as durability. We wanted a versatile facade system that would let us use various colours and textures of cladding. It was essential that the product will have high energy class and certification. Excellent fire performance was also of highest importance to us. Kingspan Karrier BK system has successfully met all these requirements and expectations. We were also delighted by the simplicity of the system.

2. Were there any specific requirements or product features of Karrier BK panel that has influenced your decision to use this system in the project?

TM: We chose Karrier BK system because of its load bearing capacity. In case of other sandwich panel systems, the load bearing capacity was much lower compared to Karrier BK. It would be impossible to use a ceramic tiles which are relatively heavy. In case of Karrier BK, ceramic tiles cladding can be assembled using a special profile system. Karrier BK has also met the requirements of thermal and fire safety performance.

3. What is your opinion about cooperation With Kingspan Facades during this project?

TM: We have established a very open and friendly business relationship with Kingspan Facades team.

4. What do you think about the final result. Did Karrier BK meet your expectations?

TM: The final results met our expectations, or even exceeded them. There were no claims by the builders as the entire facade was extremely simple to assemble, just like the LEGO bricks with each element lying in its place. While we only see the façade cladding on the outside and only the gypsum board on the inside, but experts know that reliable, high performance thermal insulation is installed between these two finishes.

„The entire facade system was extremely simple to assemble, just like the LEGO bricks.“

Tumas Mazūras, Unitectus UAB



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