Pekabex

Pekabex® System
Residential Buildings

HEAD OFFICE
ul. Szarych Szeregów 27
60-462 Poznań

T: +48 61 821 04 00

www.pekabex.pl

Pekabex

Pekabex® System
Residential Buildings

HEAD OFFICE
ul. Szarych Szeregów 27 60-462 Poznań

T: +48 61 821 04 00

www.pekabex.pl

revision: April 2020

All texts, drawings, photos and any other information as well as materials published in this brochure are protected by law, copyright and belong to Pekabex BET S.A. or have been used under relevant licenses. Any use of the brochure and the materials contained therein – including, but not limited to, copying, distribution, processing, sending without Pekabex BET S.A.'s consent is prohibited and is subject to liability under the applicable laws, in particular the Act of 4 February 1994 on copyright and related rights and the Act of 16 April 1993 on combating unfair competition.

Efficient space design combined with great architectural freedom and elegance

Cost-effective

A set of matching, ready-made elements, always shortens the lead time and minimizes the risk of making mistakes. The use of prefabrication technology enables simultaneous work on the construction site and in the production plant.

Innovative

Creating unique architecture is the result of cooperation among architects, constructors and investors through mutual understanding of needs and expectations. We have created the Pekabex System for residential construction with a view of combining modern building technologies with aesthetics and functionality.

Reliable

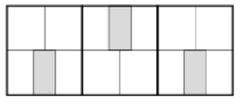
System products are manufactured in the factory under controlled conditions. We know how important it is to combine all components into a coherent whole. We guarantee the quality of our own production with Polish and international certificates.

What is Pekabex System?

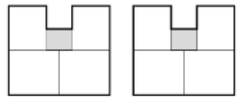
The passion for construction and the desire to create modern and eye-pleasing residential buildings has resulted in a complete solution for above-ground parts based on Pekabex products. The system is dedicated mainly to multi-family buildings, but is also used in public utility enclosed structures or collective housing.

The harmony between architecture and structure does not have to impose restrictions on form and imagination. The Pekabex system works well with every type of multi-family residential architecture development:

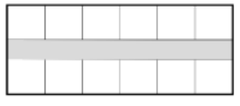
STAIRCASE STYLE BUILDING



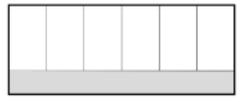
TOWER BLOCK



CORRIDOR STYLE BUILDING



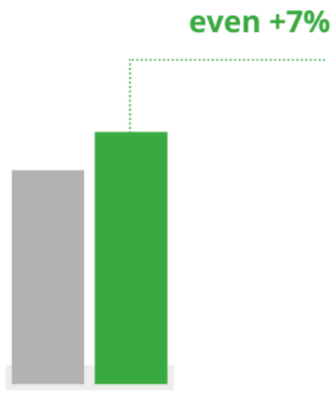
PASSAGEWAY STYLE BUILDING



Why Pekabex System?

More usable floor space

Designing a building based on our products gives you more usable floor space with the same total area. This translates directly into increased revenues for the Investor.



Shorter lead time

With prefabrication technology, you can erect buildings at a rate that is unattainable in traditional construction. This reduces the time of the whole project and reduces construction costs. Floor installation in 4–5 days? It's possible with us.

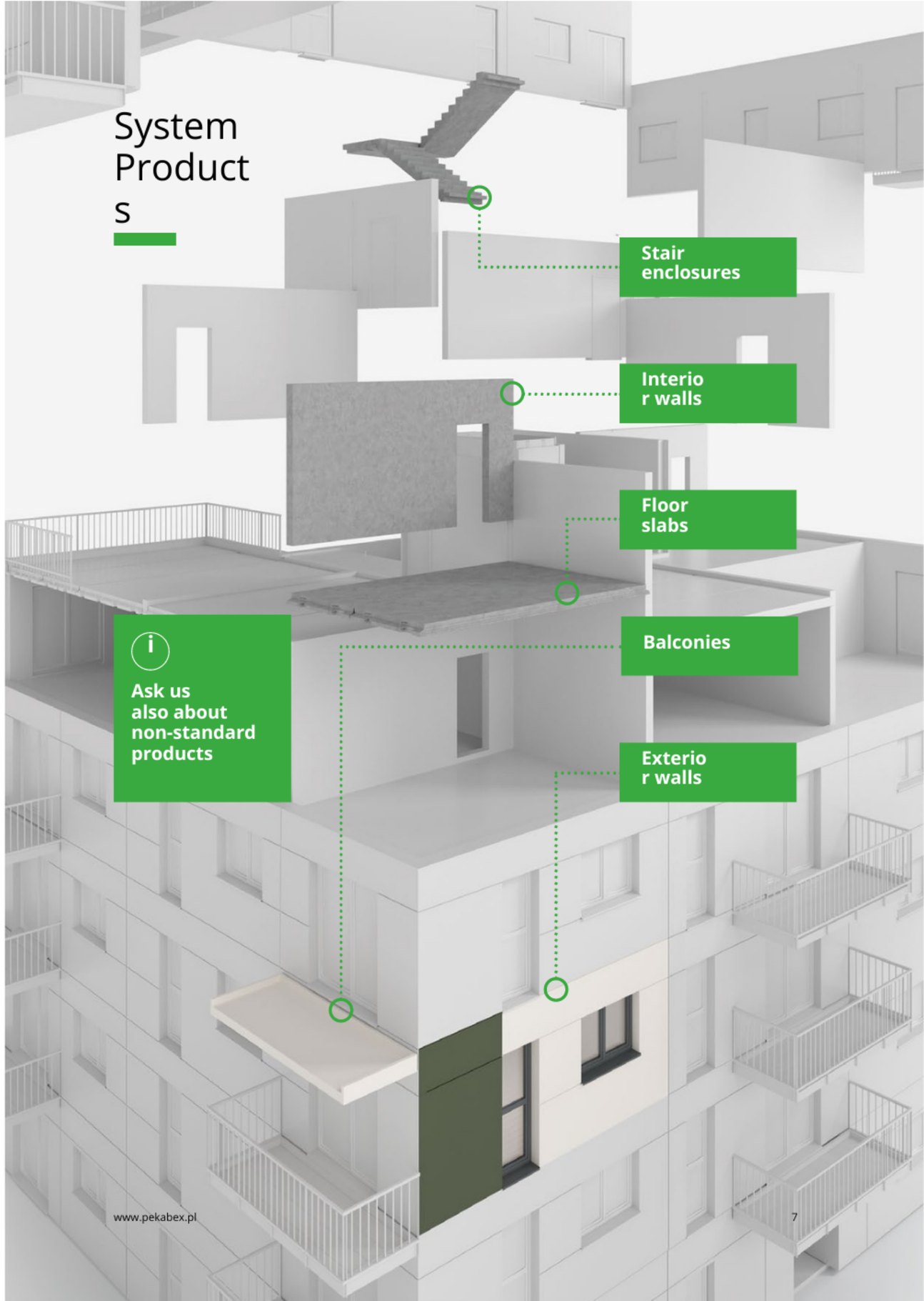
No plastering

The surfaces of walls and ceilings indoors do not require plastering. After plaster skim application, they are ready for painting.

When Pekabex System?

We are a responsible business partner and take care of individual needs of our Customers. Our system is practical, coherent, but at the same time allows you to use only a part of it and combine it with other solutions available on the market.

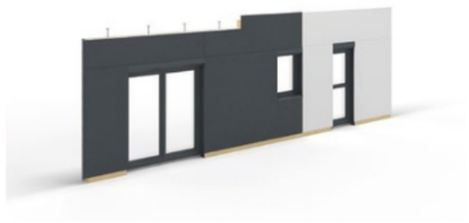
System Products



01

Exterior walls

We deliver our three-layer products along with the ready facade layers and the embedded joinery. Single- and double-layer walls allow for other facade solutions. They are perfect for example if you want to use facade panels.

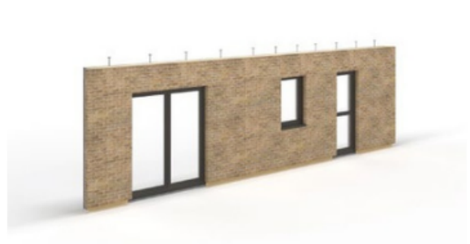


Three-layer walls with concrete facade

Types of insulation:
rock wool / PIR
Thickness of the construction layer:
min 100 mm
Total system product thickness:
min 260 mm
U Factor [W/m2*K]:
=< 0.2
Fire resistance:
R30-R120, EI30-EI60
Facade finishing options:
painted / plastered concrete
Additional information:
possibility of installing roller blinds at the production stage

Textured three-layer walls

Types of insulation:
rock wool / PIR
Thickness of the construction layer:
min 100 mm
Total system product thickness:
min 260 mm + matrix thickness
U Factor [W/m2*K]:
=< 0.2
Fire resistance:
R30-R120, EI30-EI60
Facade finishing options:
painted / plastered concrete
Additional information:
possibility of installing roller blinds at the production stage



Three-layer walls with cladding

Types of insulation:
rock wool / PIR
Thickness of the construction layer:
min 100 mm
Total system product thickness:
min 280 mm + cladding thickness
U Factor [W/m2*K]:
=< 0.2
Fire resistance:
R30-R120, EI30-EI60
Facade finishing options:
brick / clinker / stone
Additional information:
possibility of installing roller blinds at the production stage

Two-layered walls

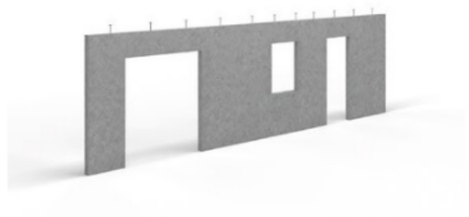
Types of insulation:
rock wool / PIR / EPS

Thickness of the construction layer:
min 100 mm

Total system product thickness:
min 220 mm

U Factor [W/m2*K]:
=< 0.2

Fire resistance:
R30-R120, EI30-EI60



Single-layer walls

Thickness of the construction layer:
min 100 mm

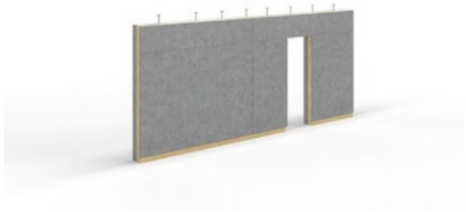
U Factor [W/m2*K]:
=< 4.38

Fire resistance:
R30-R240

02

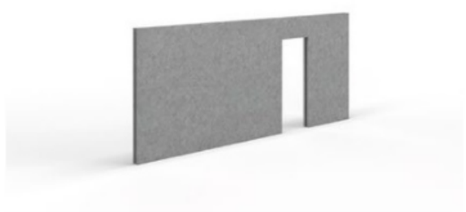
Interior walls

In the Pekabex System, internal load-bearing walls can be made as fully prefabricated or consisting of two filigree slabs filled with concrete mix (composite) on site. For partitions where it is necessary to ensure good thermal insulation, a multilayer solution is dedicated.



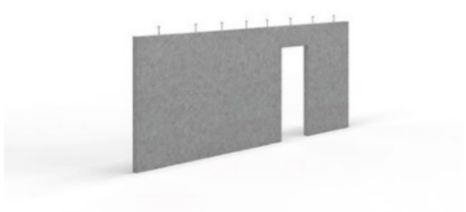
Three-layer walls

Types of insulation:
rock wool / PIR / EPS
Thickness of the construction layer:
min 100 mm
Total system product thickness:
min 170 mm
Sound insulation index Rw [dB]:
>= 50
Fire resistance:
R30-R120, EI(-)-EI30



Composite walls

Thickness of the construction layer:
min 180 mm (filigree slab min 60 mm)
Sound insulation index Rw [dB]:
>= 50
Fire resistance:
R30-R120



Single-layer walls

Thickness of the construction layer:
min 120 mm
Sound insulation index Rw [dB]:
>= 50
Fire resistance:
R30-R240

03

Floor slabs

We have a very wide range of ceiling products to meet various requirements concerning the span, load and shape of the ceiling. Large-area filigree slabs are best suited for apartments. We recommend to design common areas also with these elements or solid slabs. For utility rooms and the ceiling above the garage, we offer hollow core slabs.

HC slabs

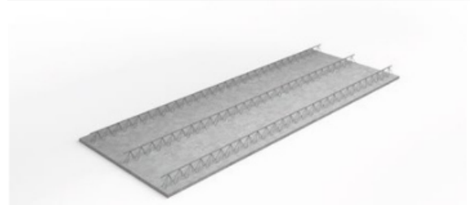
Thickness of the construction layer:
150 / 200 / 265 / 320 / 400 / 500 mm
Fire resistance:
R30-R120
Additional information:
with R120 resistance, concrete topping is required

Reinforced solid slabs

Thickness of the construction layer:
min 60 mm
Fire resistance:
R30-R240
Additional information:
concrete topping not required

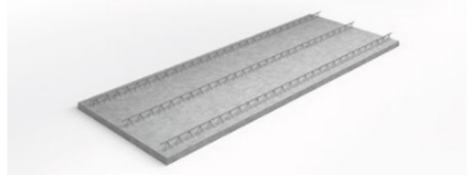
Solid prestressed slabs

Thickness of the construction layer:
min 60 mm
Fire resistance:
R30-R240
Additional information:
concrete topping not required



Reinforced filigree slabs

Thickness of the construction layer:
min 200 mm (filigree slab min 50 mm)
Fire resistance:
R30-R240
Additional information:
concrete topping is required

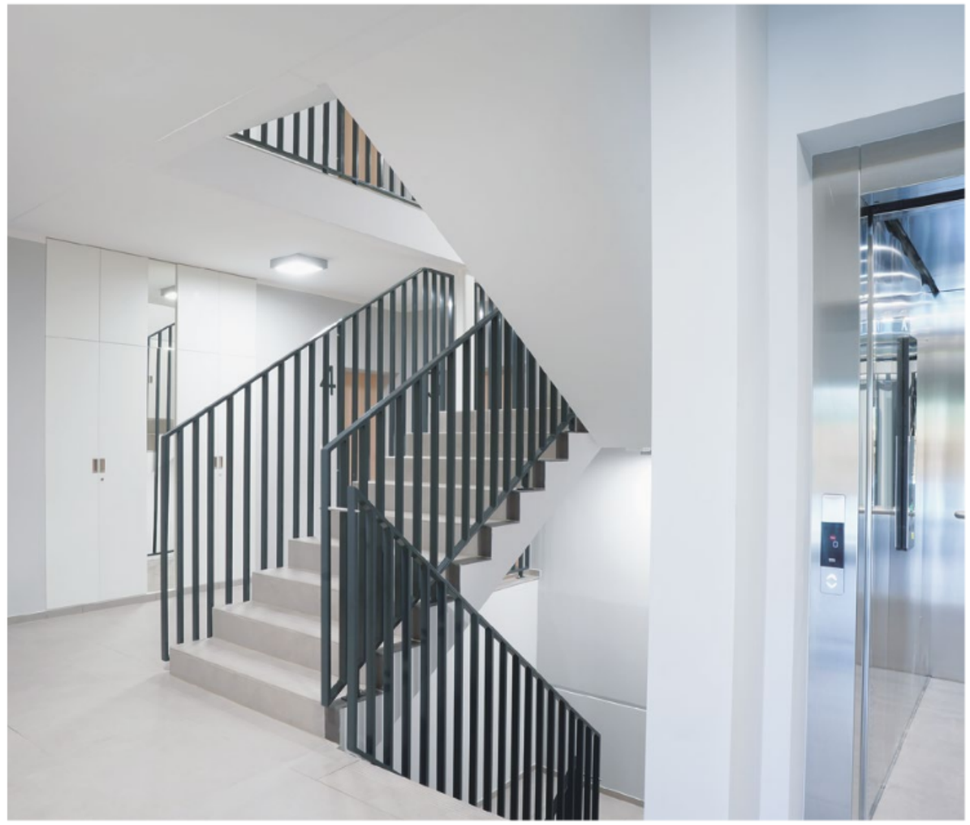


Filigree prestressed slabs

Thickness of the construction layer:
min 200 mm (filigree slab min 100 mm)
Fire resistance:
R30-R240
Additional information:
concrete topping is required

Staircases

We are constantly working to shorten the construction process. We have supplemented our range with concrete elements that do not require finishing as well as stair flights and landings with cladding made in the prefabrication plant, which have been gaining in popularity in recent years.

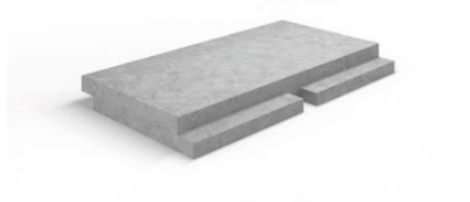


Stair flights without finishing

Thickness of the construction layer:
min 150 mm
Fire resistance:
R30-R240
Finishing options:
trowelled concrete / surface prepared for the finishing layer
Additional information:
can be installed during the production of accessories for mounting railings

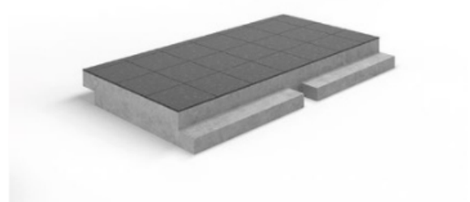
Stair flights with finishing

Thickness of the construction layer:
min 150 mm
Fire resistance:
R30-R240
Finishing options:
tile cladding / stone cladding
Additional information:
can be installed during the production of accessories for mounting railings



Landings without finishing

Thickness of the construction layer:
min 200 mm
Fire resistance:
R30-R240
Finishing options:
trowelled concrete / surface prepared for the finishing layer
Additional information:
can be installed during the production of accessories for mounting railings

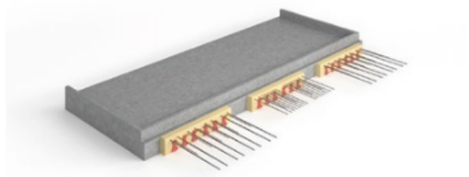


Landings with finishing

Thickness of the construction layer:
min 200 mm
Fire resistance:
R30-R240
Finishing options:
tile cladding / stone cladding
Additional information:
can be installed during the production of accessories for mounting railings

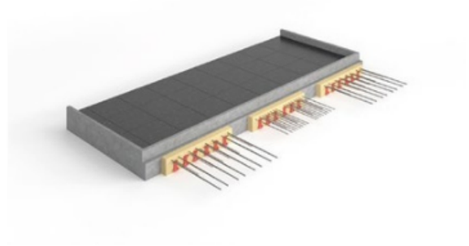
Balconies

Balcony slabs are very important elements of architecture both visually and in terms of use. In their production, we use special insulating connectors to protect against thermal bridges. Furthermore, we pay special attention to the quality of workmanship, taking into account subsequent exposure to weather conditions.



Balconies without finishing

Thickness of the construction layer:
min 180 mm
Fire resistance:
R30-R120
Finishing options:
trowelled concrete / surface prepared for the finishing layer
Additional information:
can be installed already during the production of accessories for mounting railings



Balconies with finishing

Thickness of the construction layer:
min 180 mm
Fire resistance:
R30-R120
Finishing options:
tile cladding / stone cladding
Additional information:
can be installed already during the production of accessories for mounting railings

Horizontal
and vertical joints

Surroundings

Grouts at the joints of prefabricated elements incorporated in the system of additional, individually designed joints give the facade a unique, modernist character.

Interiors

One of the options, which stands out in terms of aesthetics, is the use of floor slabs with visible joints, which ultimately constitute a decorative element of the rooms.

Installations

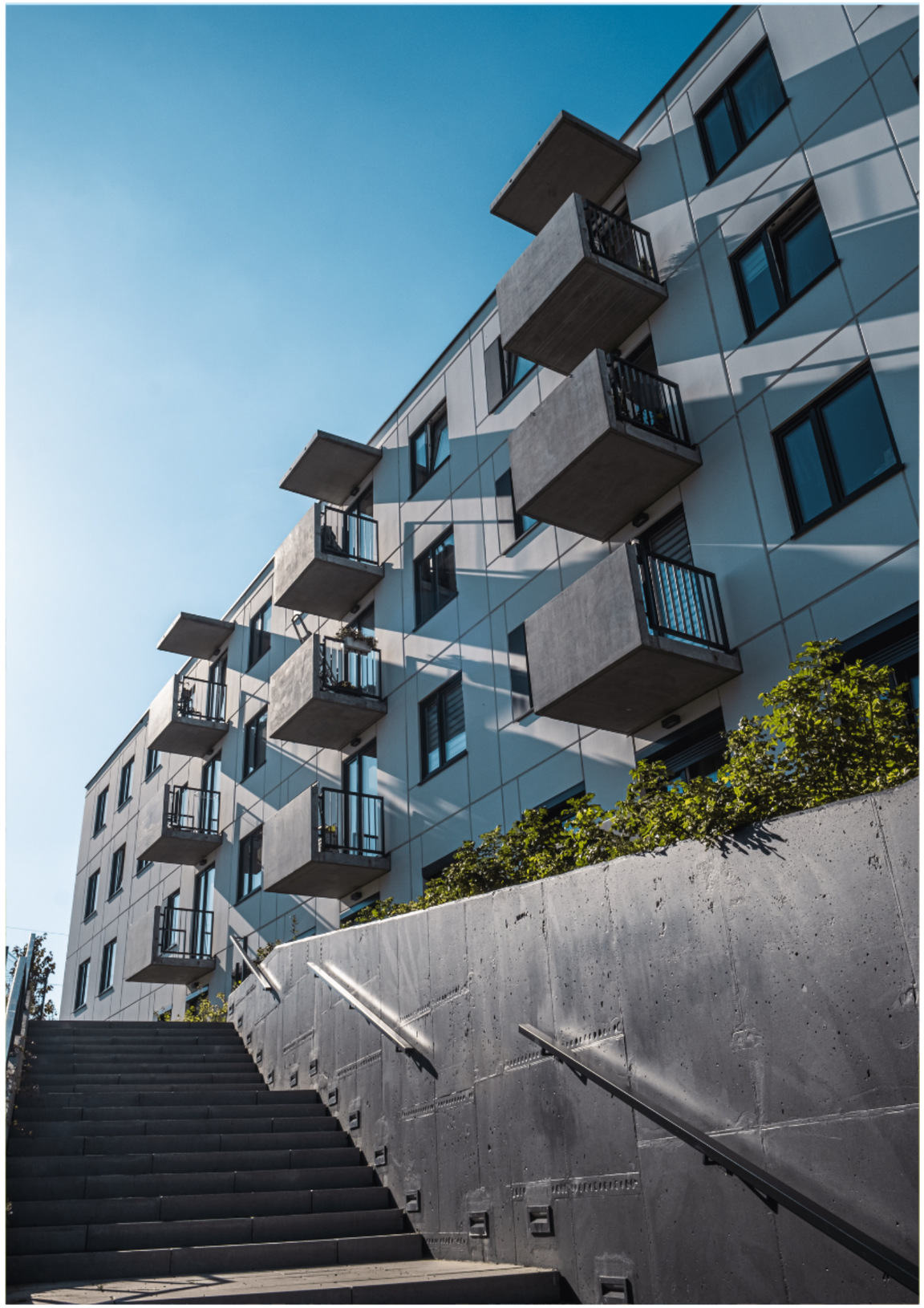
Comfort

Flexible conduits for electric cables are embedded as standard inside walls and ceilings. This shortens the installation time, makes the work on the site more efficient, and thus allows finishing work to start sooner.

Safety

The reinforcement inside the walls is used as an element of the grounding system, connected in the ceiling rims. This ensures the permanent and efficient operation of this installation.


16
OOM KOPERNIKA



Offered services

Comprehensive implementation of prefabricated construction:

- design,
- production,
- delivery,
- assembly.

General contracting:

- execution of construction works,
- turnkey projects,
- design & build projects.

Project management

- real estate due diligence analysis,
- conducting the project on the entrusted land, -
building commercialization.

Contact

Are you looking for a prefabricated construction supplier?

oferty@pekabex.pl

Are you looking for a general contractor?

info.gw@pekabex.pl

Are you in need of a developer?

inwestycje@pekabex.pl