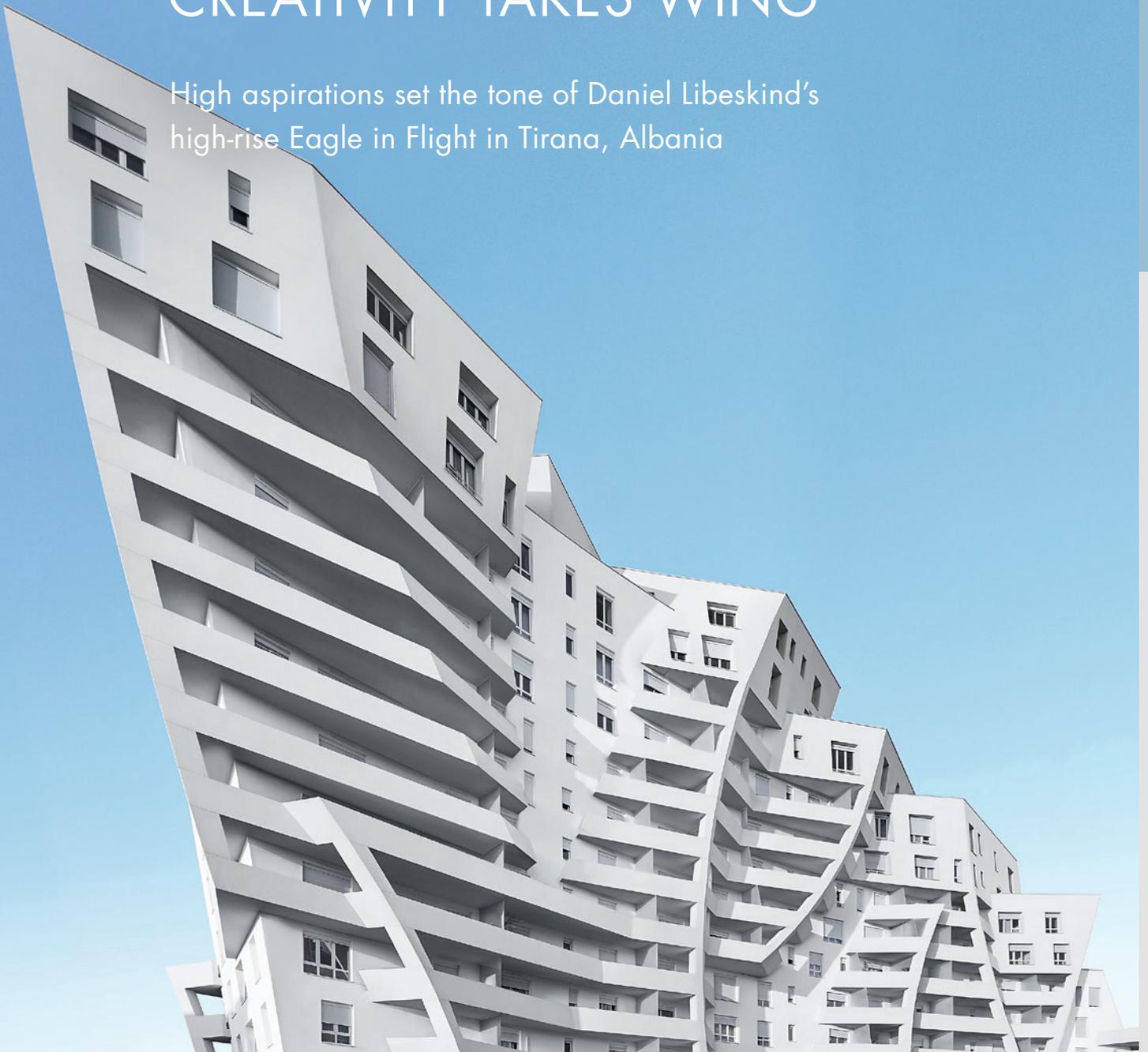


CREATIVITY TAKES WING

High aspirations set the tone of Daniel Libeskind's high-rise Eagle in Flight in Tirana, Albania



**Be certain,
choose AQUAPANEL®**

AQUAPANEL®

»THE BUILDING
SEEMS TO COLLECT
ALL THE IMAGINED
ENERGY OF THE
NEW CITY TO
COME AND THRUST
IT FORWARD AND
UPWARD.«





UP AND AWAY TO A BRIGHT FUTURE.

LOCATED IN THE ALBANIAN CAPITAL, Tirana, the Magnet residential building complex embodies the optimism and dynamics of one of Europe's emerging economies. Star architect Daniel Libeskind conceived the project with a clear goal in mind: to provide enhanced quality of life coupled with a distinctively southern European flair.

To fulfill these high ambitions, Daniel Libeskind planned a new neighborhood with 800 apartments, proportioned and structured on a human scale. The individual residents and their needs are consistently placed at the center. The complex comprises buildings of various heights and shapes with green walkways and cycle paths connecting the residences with each other and with many integrated parks. In addition, the architect and investors agreed to aim for maximum energy efficiency and sustainability in designing the buildings and choosing construction materials.

GENERATIONS IN HARMONY.

AT THE HEART OF DANIEL LIBESKIND'S IDEA for the Magnet development was the intent to create a neighborhood where three generations could coexist in freedom and dignity. Parking and access roads are underground, leaving the residential area free of motor vehicles. With the city center within walking distance, it is attractive to families. The pedestrian network includes gardens and playgrounds as well as shops and offices. The green areas absorb heat and provide storm-water drainage.

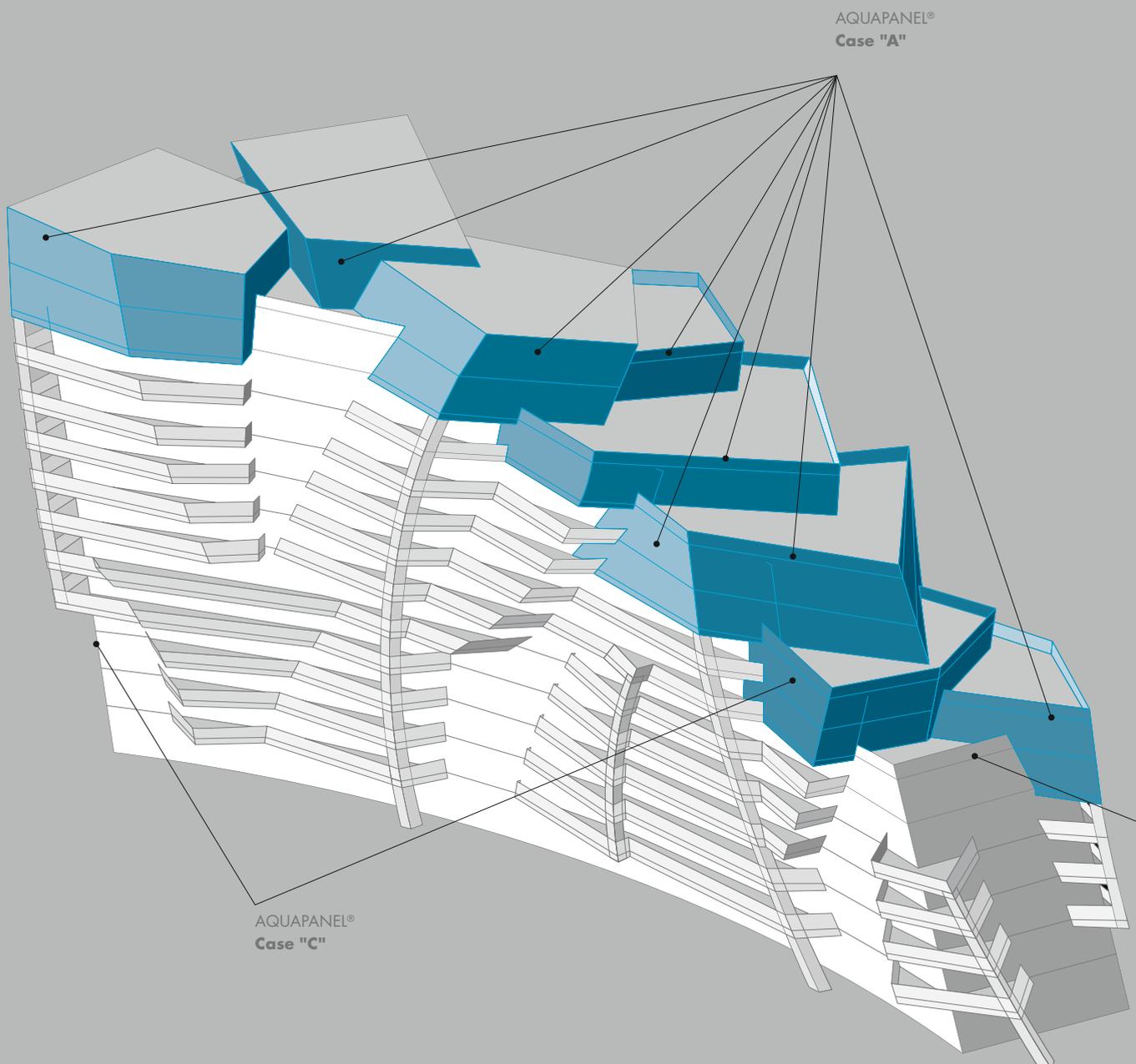
The name given to one of the complex's most striking buildings, Eagle in Flight, refers to Albania's national symbol. The flying eagle adorns the country's flag and is rooted in its rich folklore. But the majestic bird of prey is also reflected in the vitality of the lines and shapes that suggest a building – and a nation – taking wing toward the future. The signature tower was conceived as an iconic and future-oriented structure, and its unique sculptural form called for special construction methods and materials. The Knauf Exterior Wall with AQUAPANEL® Technology Inside proved to be the ideal high-performance, cost-effective solution.



SYSTEMATIC EFFICIENCY AND SUSTAINABILITY.

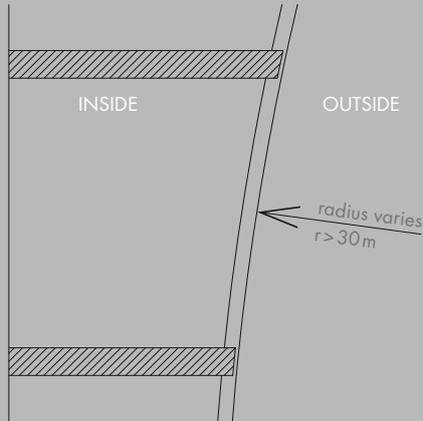
THE KNAUF EXTERIOR WALL WITH AQUAPANEL® TECHNOLOGY INSIDE supports the principles of sustainable building: its manufacture uses up to 50% less energy and generates up to 30% less CO₂ emissions than conventional brick and block construction materials. The weight of walls in finished buildings is also cut down drastically to as little as up to 25% of traditional materials.

As Knauf Exterior Wall is slimmer, yet still provides outstanding stability and weatherproofing properties, usable interior space can be increased – in many cases by more than 8%. The lightweight system components are easy to handle during construction, saving time and energy for lower costs and a smaller environmental footprint.



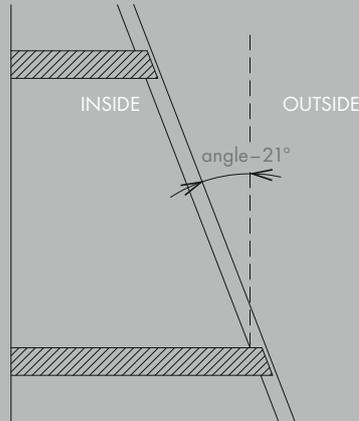
A-CURVED
WITH A RADIUS > 30M

1,730m²



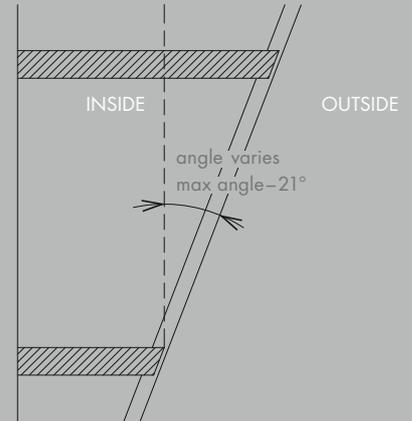
B-FLAT
BUT SLOPED SURFACE

250m²



C-FLAT
BUT SLOPED SURFACE

750m²

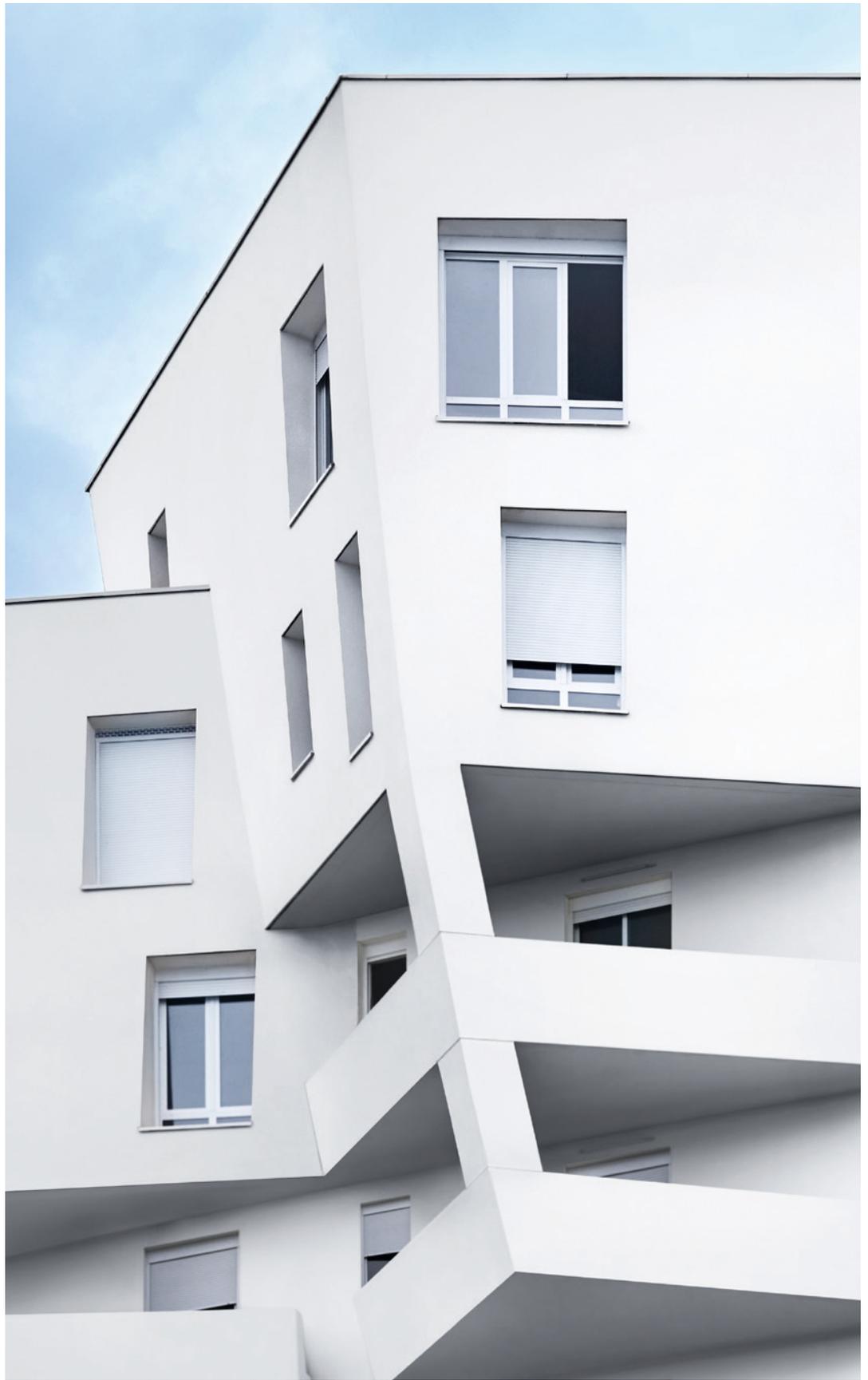


Thanks to the chosen construction materials, the façade construction time for Eagle in Flight was cut in half from six months to three months. It also benefitted the building's thermal insulation properties and played a special role in the façade at penthouse level. Here, Daniel Libeskind wanted to avoid a conventional thermal insulation com-

posite system and opted for a lightweight yet extremely rigid and durable envelope construction. This ventilated façade solution using AQUAPANEL® cement boards offers a good climate and a long service life. And as a 100% inorganic material, the cement board is resistant to mold and mildew.



AQUAPANEL®
Case "B"



Angles according to the static calculation

AQUAPANEL® Tyvek® StuccoWrap™*

AQUAPANEL® Cement Board Outdoor 12.5 mm

Continuous T profile 100/50/2
(radius bent where applicable)

Thermal insulation

Rain leader pipe

20 mm ventilation

AQUAPANEL® Cement Board Outdoor 12.5 mm –
align w/slab edge

150 mm Knauf UA profile 150/40/2
@ 600 mm o.c., 500 mm @ corners

Gypsum board

Plaster

125 mm Knauf UA profile 125/40/2
@ 600 mm o.c.

Powder-coated galvanized
perforated steel profile

20 mm ventilation

Plaster closing profile

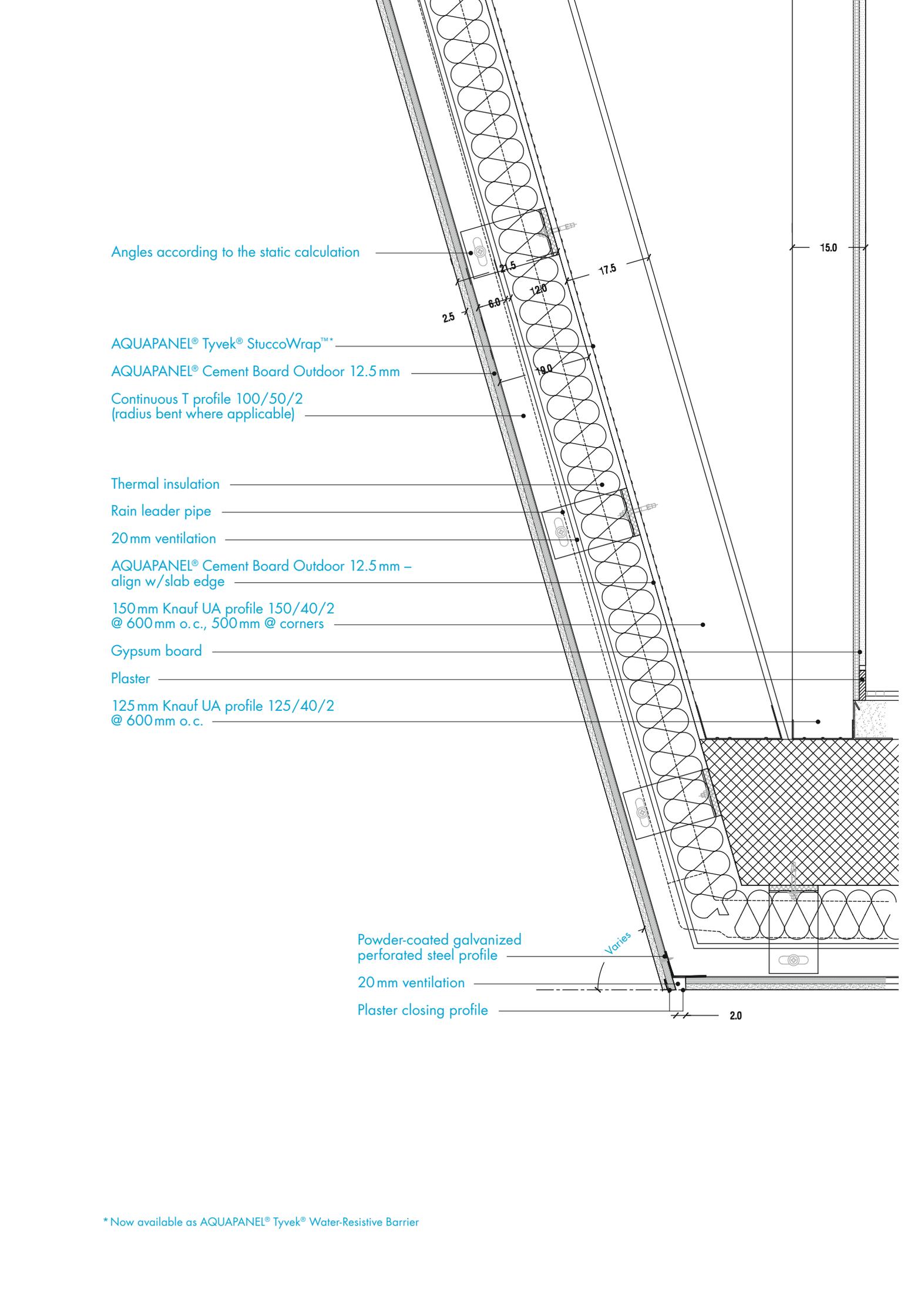
Varies

2.0

15.0

2.5
6.0
12.0
17.5

19.0



* Now available as AQUAPANEL® Tyvek® Water-Resistive Barrier

DESIGN FREEDOM MEETS COST-EFFECTIVENESS.

»AQUAPANEL® CEMENT BOARDS ARE AN EXCELLENT SOLUTION for weather-exposed sloped surfaces. To a certain degree they can be curved. They allowed us to apply the surface material we had selected, a self-cleaning and air-cleaning cement plaster,« explains Daniel Libeskind. The project's general contractor, the regionally leading engineering and project management company Kontakt, values AQUAPANEL® Cement Board Outdoor for its light weight, its durability, the unrestrained water resistance and the overall efficient construction possibilities.

»We used AQUAPANEL® cement boards all over because of the object's particular forms and shapes as well as because of the cement board's easy assembly and lower costs compared to other façade materials,« says Fatmir Bektashi, Kontakt Project Manager and owner.

»We appreciated not only the performance of the AQUAPANEL® cement boards but also the well-engineered systems and the design support by Knauf,« says Daniel Libeskind. As the Eagle in Flight tower strikingly demonstrates, the Knauf Exterior Wall with AQUAPANEL® Technology Inside gives architects and developers the freedom and certainty they need for the most daringly creative and future-oriented projects.



As its name suggests, Eagle in Flight reaches for the sky with upward-sweeping exterior lines.



Architect
Daniel Libeskind



Principal-in-charge
Stefan Blach

ARCHITECT

FOCAL POINT OF WORK

Commercial, residential and cultural buildings/
master planning

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Mail: info@libeskind.com

PROJECT INFO



CONTRACTOR

Kontakt shpk

PROJECT TIME FRAME

2012–2014

SYSTEM

Knauf Exterior Wall with
AQUAPANEL® Technology Inside

APPLICATION AREA

5,000m²
AQUAPANEL® Cement Board Outdoor

KNAUF

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AQUAPANEL®

AQUAPANEL® is a technologically advanced building system. Because it's a system, it involves clear step-by-step process from design idea to project completion. AQUAPANEL® cement board panels, accessories and services work in unison – you can be certain that your project will all come together as planned.

www.AQUAPANEL.com

AQUAPANEL® Cement Board Outdoor

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