

# Element Façade 7

The element that  
builds the future



Urbanisation  
requires  
new building  
solutions



Urbanisation is rapidly shaping tomorrow's world. Half of the earth's population can be found within city limits. Predictions show that this number will increase to two out of three people by 2050. Cities are becoming hubs for technology and service-based economies, with direct links to transport and other infrastructure. The most energy-efficient and cost-effective way to accommodate the growing amount of people is vertically.

And as buildings are getting taller, advances in construction materials and design software push building limits to new heights, along with an increasing focus on energy efficiency and sustainability.

Real estate is shifting from merely selling assets to truly thinking from a customer's point of view. With buildings that drive communities and experiences, it is all about serving people. The real high-rise future is not just a standard office building, but a multi-use of offices in combination with residential and hotel functions. Next to this, the increasing density of cities brings with it the fact that

people will not accept the disturbances of construction sites anymore – such as traffic problems, noise and other kinds of pollution. More efficiency will therefore be required to drastically reduce construction times.

At Reynaers Aluminium, we cope with growing urbanisation by developing systems for accommodations, buildings for sports, arts, culture, infrastructure and offices. At the same time, we contribute to the possibilities of prefabricated building, bringing complete modules on-site. All our solutions have a strong focus on comfort, design and ceaseless attention to sustainability.

## Key benefits of ElementFaçade 7

1

**Free to build the façade  
of the future**

2

**Intelligent design**

3

**Exceptional  
performances**

4

**Efficient and versatile  
assembly**

5

**Compatible with  
standard  
opening elements**

6

**Supported from design  
to delivery**



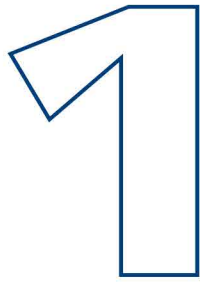
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*Four Seasons Hotel, Bahrain — Architect: Skidmore, Owings & Merrill —  
bespoke solution*



## **Future proof performance values**

Future cities - and the buildings that will occupy them - are already being designed today. As cities become denser, buildings need more acoustic attenuation. Limited floor area pushes structures higher and higher, which requires better wind and water performances. With standards and legislation growing more and more strict, energy efficiency and insulation levels of today will no longer serve the building of tomorrow. That's why Reynaers Aluminium aims to deliver products that are ready for the future, today.

## **Higher and bigger dimensions**

Whether it be a skyscraper in a capital, an office building with an exceptional architectural look or a renovation of a residential high-rise: every urban development project searches for products that makes it stand out. At the same time, these projects aim to move fast and remain within the budget linked to standard products. In search of that ultimate combination, we dug deeper and came up with a remarkable result.

With ElementFaçade 7, Reynaers Aluminium provides you with an off-the-shelf product answer. It is a tested and certified solution that meets a high level of architectural imagination. However, with Reynaers Aluminium's expertise it can also be tailored exactly to your needs, when necessary. Element Façade 7 allows bigger dimensions and sustains heavier glass weights. Its future-proof performance values also allow to further increase the height of façades, whilst meeting the strictest thermal and acoustic insulation, as well as sustainability requirements.



Time is money in every construction project. Shortening project lead times, reducing risk of delays and keeping complexity under control are on every owner's and developer's mind, as it can have significant implications concerning the cost. This requires efficient production and installation processes.

With Reynaers Aluminium's new ElementFaçade 7, we aim to be fast from design to calculation, production and installation. Throughout the development process, the speed of every step in the building process was taken into consideration.

Already in an early project stage, we think about efficiency and make standard BIM models (Building Information Modelling) available that help speed up the design process. Moreover, our ReynaPro calculation software helps you calculate exactly what you need, as it allows you to run technical calculations with our product's standard technical specifications. This way, there's no need for the time-consuming creation of specific tools, usually involved in projects. It is during the construction

stage that the enormous increase in fabrication speed becomes apparent. ElementFaçade 7 can be prefabricated in any controlled workshop, which removes disturbing and uncertain factors like cold or wet weather. The prefabrication not only improves speed but also brings high process reliability and product quality.

Fabricating the system in a centralized location, rather than sending off all necessary materials and labour to the building site greatly reduces the carbon footprint of a building. Moreover, this prefabricated building will limit on-site traffic disturbance as well as reduce pollution (light pollution, noise pollution, dust pollution), especially in densely populated cities. More efficient production and reduced on-site construction will therefore benefit all stakeholders.

Additionally, by introducing a straight-cut corner connection, we bring the much-needed certainty of accuracy and execution time. This way, our ElementFaçade 7 becomes available for a wide range of partners and for buildings of all sizes.

Any type of fabricator can set up their workshop in a highly flexible way. Anything is possible, from a basic machine setup for 10m<sup>2</sup> residential projects, up to an industrialized production unit for massive projects of 100.000m<sup>2</sup> or more. ElementFaçade 7 is a versatile system, as next to the clear benefits of the straight cut, the traditional mitre cut remains available as an option.





Efficient  
and versatile  
assembly