



# Multi-Storey Car Parks of the New Generation

customised, cost-effective solutions





Multi-storey car parks don't just have to be functional and cost-effective, but also individual and sustainable.

**[1] Bright, modern parking spaces for a maximum amount of vehicles.**  
**[2] Individual solutions perfectly blend into their surroundings.**  
(Year of construction: 1994, photo: 2014)







## Developed by people, made for cars

You require parking spaces for customers, visitors or employees? We can build a multi-storey car park for you that fulfils all your needs!

Astron multi-storey car parks offer an optimised, individual solution for every use - functional, cost-effective and with a large scope for design.

Building plots are often small or are just gaps between buildings. Therefore, we have made it our speciality to accommodate the maximum amount of parking spaces on a minimal base area.

In certain cases we replace the ramps with car-lifts. Or we develop buildings that have truck parking spaces on the bottom floor and parking spaces for cars on the upper floors. The more specific your demands, the more innovative our solution.

Our engineers will develop the perfect solution for your vehicles.







## Innovative multi-storey car parks with a special flair

For the last 50 years, we at Astron have constantly been working on finding the best solutions for our European customers.

Steel is our material of choice - solid, strong and reliable. Furthermore, it is economic and eco-friendly. We have developed system products made of steel that fit together perfectly but that can also be combined in manifold variations so that we can meet any customer's individual requirements.

Using the high quality and the financial advantages of systemised building structures, we add individual planning and extensive service to achieve customised concepts.

In all of this we stay fair: after an intensive consultation period, we make you a complete offer with binding all-inclusive prices and a set schedule to which we will adhere.

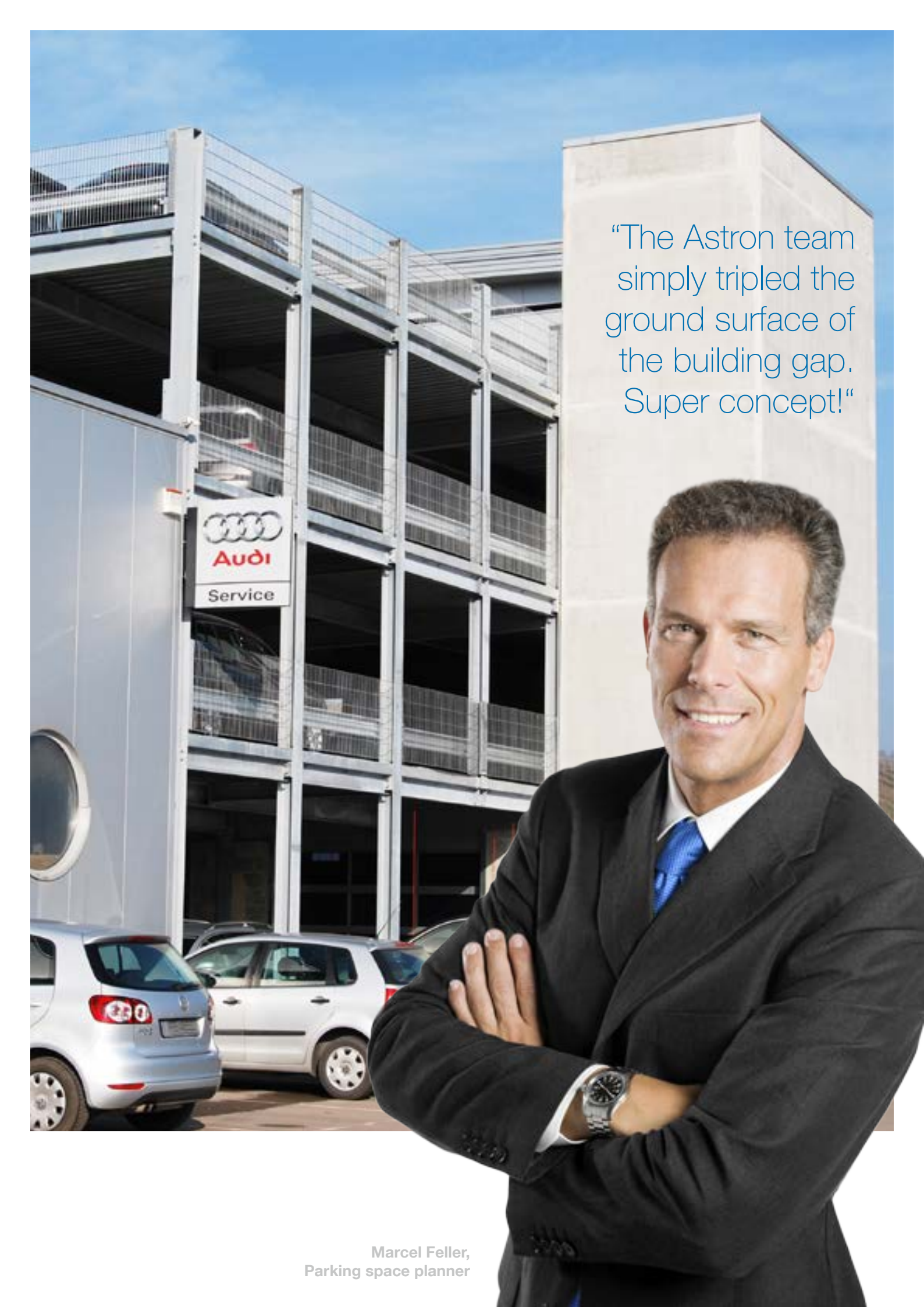
50,000 buildings have been erected in this way up to date. Every single one of them is different and yet they all have one thing in common: The high expectations towards Astron quality and satisfied customers.

**[1] Column-free parking spaces for comfortable parking and plenty of room for getting in and out of the vehicles.**

**[2] Railings can easily be integrated and are solid and well designed.**

## Quality

- In accordance to QMS-Standards ISO 9001
- Production in Luxembourg, Czech Republic and Russia according to EN1090-2
- CE-labelling of all products

A man in a dark suit and blue tie stands with his arms crossed in the foreground, smiling. Behind him is a modern, multi-story parking garage with a silver metal frame and glass railings. A sign on the building reads "Audi Service" with the Audi logo. Several cars are parked in the lower levels of the garage. The sky is clear and blue.

“The Astron team  
simply tripled the  
ground surface of  
the building gap.  
Super concept!”

Marcel Feller,  
Parking space planner





[1]



## Optimal solutions for individual demands

Functionality and cost effectiveness are priorities for commercial buildings. We additionally offer an attractive design and individual architecture.

Astron car park decks do not usually require obtrusive intermediate columns. Large free span widths allow optimal space usage and are very cost efficient - more comfort for car drivers and reduced risk of damage to vehicles.

The parking space appears optically larger, lighter and more open. Everything is more visible and therefore safer for people and vehicles.

Astron plans your multi-storey car park individually for you. We listen to you carefully and plan according to your individual needs. On the basis of the traffic flow at the location of your building and the driving and parking behaviour that is expected, we develop a detailed parking area plan if required.

Attractive graphic images visualise your building at an early stage of the planning process (see image 2).



[2]

## From the expert

- Full-service support in all project phases
- Individual conception with variable components
- Optimised according to your planning criteria

# Columns, floors and facades - every part has its own place

The weight-carrying construction is composed of columns and beams made of hot-rolled steel sections. All components are custom-made at our factory. Pre-punched holes and screw connections enable a quick and accurate erection at the construction site.

For the floor components, we use pre-fabricated profiles steel sections that can be quickly assembled and then reinforced with concrete. This way composite construction combines the advantages of traditional steel construction and reinforced concrete construction: short erection time and low self-weight.

Differing colour coating of each ceiling section facilitate orientation in the building (see image 1) - the perfect symbiosis of design, functionality and cost effectiveness.

For your safety, we supply robust and efficient railings. The further design of the facade is developed according to your wishes: elegant design components, greenery planted to grow over the facade, wood, stone or any other material can be selected to give the building an architectural touch.

**[1] Colouring as a guidance system: simple, variable and cost effective**

**[2] Photorealistic depiction of your building design**

**[3] The toughened floor sheeting is mounted during the dry construction phase. Later it is reinforced with concrete on location.**

**[4] Quick and easy assembly of the prefabricated components**





“Despite the size and complexity  
of our multi-storey car park  
project, the deadlines and  
budget were kept to 100%!”



[1]

Luc Scholtes,  
Managing director of building company  
Scholtes & Brauch S.A.





- [1] Roofing over the top parking level or the ramps (as illustrated) provides additional comfort.**  
**[2] Functional stairwells provide good and quick accessibility.**  
**[3] The contemporary architecture blends perfectly into the surrounding landscape.**

## Responsible handling of limited resources

Astron multi-storey car parks meet all necessary fire protection requirements due to their open construction. Each deck has sufficient openings in the facade to ensure permanent ventilation of the building.

The natural ventilation as well as the high influx of daylight through the transparent facade reduce the necessity for artificial lighting and electrically powered ventilation systems - this saves energy and costs.

Thus the raw material we use, steel, is one of the few materials that can be nearly entirely recycled. This means less raw material consumption and less CO2 emissions into the atmosphere.

All specific values regarding the ecological impact of the building materials are summarised in the Environmental Product Declaration "Building materials".

This and other information on the topic can be found at [www.construction-environment.com](http://www.construction-environment.com).



## Service and maintenance

By using high quality materials, as well as sophisticated technologies and production methods, the effects of weathering and other environmental influences are kept to a minimum. A systematic maintenance plan will additionally increase the durability of your multi-storey car park. We will gladly provide you with a maintenance concept that keeps time and costs to a minimum.



## Green Parking

*By using solar collectors on the roof or on the facades, your multi-storey car park can contribute to energy production.*

*The electricity generated in this way can be used to charge electric cars via charging stations.*





## What should your new multi-storey car park look like?

Astron multi-storey car parks offer a solution for every possible use, a solution that is cost-effective, sustainable and safe.

The large scope for design and the possibility of choosing a variety of materials enable us to plan the multi-storey car park exactly in accordance with your wishes, specially adapted to your designated building plot, of course.

A car lift can increase the area available for parking spaces, a fuel station provides vehicles at the car park with energy and a car washing facility completes the services on offer.

Additionally, there are many different ways to plan the traffic flow within the building, taking into consideration the entrance, the ramps, the parking spaces and how people leave the building on foot and return again.

Can you visualise your multi-storey car park? What expectations do you have? What are your technical specifications?

What services would you like to offer the users? Let's work together to find the right solution for you!



**[1] A car lift as a space-saving solution in the Audi / VW car dealership.**

**[2] The car rental service Europcar washes, refuels and parks its fleet in a custom-made multi-storey car park in the densely built-up airport area.**



## Checklist

- Advisory service, conceptual design & planning
- Coordination & execution
- Construction approval & turnkey delivery
- Service & maintenance





“Working together with Astron enabled us to perfectly meet the customer’s high technical requirements for this multi-storey car park at Frankfurt airport.”



Alexander Horn,  
Buildings engineer,  
LIG Bau GmbH



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