

NOVENCO BUILDING & INDUSTRY **ICONIC CAR PARK PROJECTS**

CAR PARK PROJECTS WITH MORE THAN 1.000 PARKING PLACES



DOLCE VITA TEJO

Amadora, Portugal

Car park capacity: 10.000 parking spaces

The Dolce Vita Tejo Shopping Centre is located in the North of the municipality of Amadora, 10 km North-East of Lisbon. With a retail and leisure area of more than 100,000 m² and a car park of approx. 290,000 m², Dolce Vita Tejo is Portugal's biggest shopping mall. The shopping centre will have 300 stores, a giant hypermarket and a cinema complex.

With 10,000 parking spaces over 4 levels, the Dolce Vita Tejo Shopping Centre has the largest car park in Portugal to date.

The car park ventilation system consists of in total 500 parking garage jet fans and more than 100 axial flow fans. All fans are certified as smoke exhaust fans for high temperature according to EN 12101-3.



DUBAI FESTIVAL CITY

Dubai, United Arab Emirates

Car park capacity: 5.856 parking spaces

Along the creek of Dubai, a city within a city is built with a 70.000m² retail park. Dubai Festival City is a family friendly retail park with a championship golf course, offices, a marina and a huge shopping mall with pavilions, cinemas and a unique kids' atrium.

The 2.1 million sq. ft. retail area comprises Festival Waterfront Centre and Festival Power Centre and is home to 550 shops, 20 flagship and anchor stores, 90 restaurants and cafés. Additionally, a Skywalk Entertainment level will be home to a 12-screen Grand Cinema Complex, Electronics Collection, Bowling City, a Skywalk food court, Fitness First and Magrudy's. The underground car park has a capacity of more than 5.800 parking spaces.



JUMEIRAH BEACH RESIDENCE

Dubai, United Arab Emirates

**Car park capacity: 5.500 parking spaces
(divided over three car parks)**

Jumeirah Beach Residence (JBR) comprises of 36 luxury residential apartment towers and 4 hotel towers. Jumeirah Beach Residences will cater to a community of over 25,000 residents with its 22 million square foot gross floor area, which is being developed across a length of 1.7 km. It is a self-contained community with amenities like restaurants, health clubs, sport centers, medical facilities, beach clubs, children's play areas, housekeeping, retail stores, supermarkets, nursery schools, and more.

Novenco has supplied the ventilation system for the car parks S-1 and S-3, with each 2.000 parking spaces and the car park S-5 with a capacity of 1.500 parking spaces.



WHITE CITY LONDON

London, United Kingdom

Car park capacity: 4.500 parking spaces

The Whitecity Development in London was the biggest retail development in Europe. The impressive new 40 acre site includes new shopping, leisure and transport facilities. The site will accommodate some 200 stores. In addition to the stores, the site will include 12 external eating outlets and food court and two multi-screen cinemas.

The basement of the building accommodates a three level underground car park with a capacity of in excess of 4,000 cars. Novenco has been awarded a 'design & build' contract for a 'turn key' car park ventilation solution for the basement car park as well as two internal loading bay areas.



BONARKA CITY CENTER

Krakow, Poland

Car park capacity: 3.200 parking spaces

Bonarka City Center is a multi-functional city center being built in a post industrial area of Krakow's district Podgórze and covering around 19 hectares.

The commercial, service and entertainment center has 270 shops, a mega-cinema, at least 9 restaurants, more than a dozen coffee bars, ice cream shops and an underground car park. Also four A-class office buildings and a housing estate will be realized.

The two-level underground car park has a capacity of approx. 3.200 parking spaces.



BURJ KHALIFA (DUBAI TOWER)

Dubai, United Arab Emirates

Car park capacity: 3.000 parking spaces

Burj Khalifa (Dubai Tower) is the iconic super-tower in Dubai.

It is the tallest man-made structure in the world. The building is part of a 2 km² development called 'Downtown Dubai'.

The interior is decorated by Giorgio Armani.

An Armani Hotel (the first of its kind) will occupy the lower 37 floors. Floors 45 through 108 have 700 private apartments. Corporate offices and suites fill most of the remaining floors, except for a 123rd floor lobby and 124th floor indoor/outdoor observation deck. An outdoor zero-entry swimming pool is located on the 78th floor of the tower.

The car park has a capacity of approx. 3.000 parking spaces.



RIEM ARCADEN

Munich, Germany

Car park capacity: 2.600 parking spaces

The Riem Arcaden is an excellent shopping mall at Munich Messestadt, which is the business/exhibition centre district of Munich. It is Munich's third-largest shopping center and was opened in 2004. There's a huge array of shops, arranged over three floors, and plenty of places to enjoy a meal, snack, drink or ice cream. There are department stores, a supermarket in the basement and many small shops selling just about everything you could possibly need.

The enclosed underground car park has three levels with total 2.600 parking spaces.



EKBATAN MEGA MALL

Tehran, Iran

Car park capacity: 2.500 parking spaces

The Ekbatan Mega Mall is fully integrated into a 190,000 m² cultural-recreational complex. The complex is a joint investment and technical contribution of both Iran and Malaysia and is a place where people can work, live, visit, shop and enjoy leisure and cultural activities in a convenient and pleasant world class environment.

Only 15% of the available space of the complex has been allocated to the store and business space. The remaining 85% of the space has been allocated to the public, sporting, recreational and cultural activities.

The complex will have a multi-level underground parking with a capacity of 2,500 cars.



FORUM ALGARVE

Faro, Portugal

Car park capacity: 2.000 parking spaces

The Forum Algarve - Faro is another fantastic shopping centre, half in the open and half under cover.

It has an excellent selection of recognisable shops, great parking facilities and a multiplex cinema. All the shops are spread out over just two levels with a large Hipermarket on the ground floor. Shopping centre the Forum is very well geared up for the kids.

They have pushchairs available for you to use for free, family toilets, baby changing facilities and high chairs in every restaurant and cafe. The underground car park has approx. 2.000 parking spaces.



ZŁOTE TARASY

Warsaw, Poland

Car park capacity: 2.000 parking spaces

The Złote Tarasy complex in Warsaw, Poland is a 207.000m² mixed-use development in the centre of Warsaw. The complex is interwoven with a 'basket-weave' circulation plan, intended to create a synergistic environment for visitors.

Designed as a lively, multi-leveled canyon, Złote Tarasy combines nature with retail and entertainment. It consists of two office buildings (including one over 100 metres high), an eight screen cinema, a three storey shopping mall and a four storey underground car park with 2.000 parking spaces.



FIELD'S

Copenhagen, Denmark

Car park capacity: 2.000 parking spaces

Field's in Copenhagen is the most innovative and exciting shopping and leisure destination in Scandinavia. It offers a unique shopping environment with more than 140 retailers and an entire floor devoted to cafés, restaurants, entertainment and leisure. In short, a shopping centre of international class, with a touch of Scandinavian style and atmosphere.

Field's is the largest shopping and entertainment centre in Scandinavia. It has a size of 115,000 m², of which 65,000 m² shopping area. In total there are 3,000 parking spaces, of which 2,000 in the underground car park.



CELOVŠKI COURTYARD

Ljubljana, Slovenia

Car park capacity: 1.800 parking spaces

The Celovški Courtyard complex is a new, mixed-use development on a former industrial facility site in the north area of Ljubljana. Consisting of three sets of objects, it will integrate commercial areas with offices and apartments which have a common underground car park. The largest part of the complex will represent a residential building with 821 apartments. Furthermore also a hotel business with integrated commercial areas will be part of the complex.

Below the complex there are four parking levels with total 1.800 parking spaces.



BENFICA STADIUM

Lisbon, Portugal

Car park capacity: 1.500 parking spaces

The club Sport Lisboa e Benfica is today the owner of the largest stadium in Portugal situated in Lisbon. The stadium is called ESTÁDIO DA LUZ ('the Stadium of Light').

The new project contains leisure, entertainment and cultural areas. With its 65,000 covered seats and high-quality facilities, it has been classified as a five-star stadium by the UEFA.

The complex has a total area of 45,000 square metres and includes a gym, swimming pool, restaurants and an amusement centre.

Below the stadium there are three parking levels with 1.500 parking spaces.



HAAGLANDEN MEGASTORES

The Hague, Netherlands

Car park capacity: 1.400 parking spaces

The Hague has some perfect shopping centres, with its unique passages, the glass-covered shopping streets. The Haaglanden Megastores is one of them. In the middle of The Hague, you will find the Haaglanden Megastores in the Nieuw-Laakhaven area.

With its 92,500 square meters, it is one of the largest shopping centres in the Benelux. You will find more than 80 megastores in Haaglanden Megastores ... from mainly home furnishing to electronics, from kitchens to adventurous travel equipment, and the super-markets Konmar and Aldi. With one thing in common: they are Mega.

A partly open car park with 1.400 parking spaces is ventilated with a Novenco car park ventilation system.



LIMBECKER PLATZ

Essen, Germany

Car park capacity: 1.400 parking spaces

The Limbecker Platz project in Essen, Germany is a new shopping mall in the city center of Essen.

With approx. 70.000 sqm it is one of the biggest shopping malls in the neighbourhood. It will have approx. 200 shops, of which more than 100 are fashion related. Furthermore it will be filled With restaurants, a 22.000 sqm supermarket, coffee bars and more.

The partly open car park has approx. 2.000 parking places. In an area of 1.400 parking places an additional turn-key mechanical ventilation system is delivered by Novenco.



GUNWHARF QUAYS

Portsmouth, United Kingdom

Car park capacity: 1.320 parking spaces

Gunwharf Quays in Portsmouth. It's your kind of place, whatever you are looking for. Shop at over 95 designer outlets, eat at one of 20 cosmopolitan bars & restaurants, work it off at the health and fitness centre, be entertained at the 14-screen cinema, bowl at the 26-lane Bowlplex, have a laugh at Jongleurs comedy club, dance the night away at Tiger, stay at the new Express by Holiday Inn.

Landscaped in to a historic setting, with the Historic Dockyard and Old Portsmouth only a few minutes walk away, Gunwharf Quays is where the old and the new come together.

The underground car park has a capacity of 1.320 parking spaces.



OPORTO STADIUM

Porto, Portugal

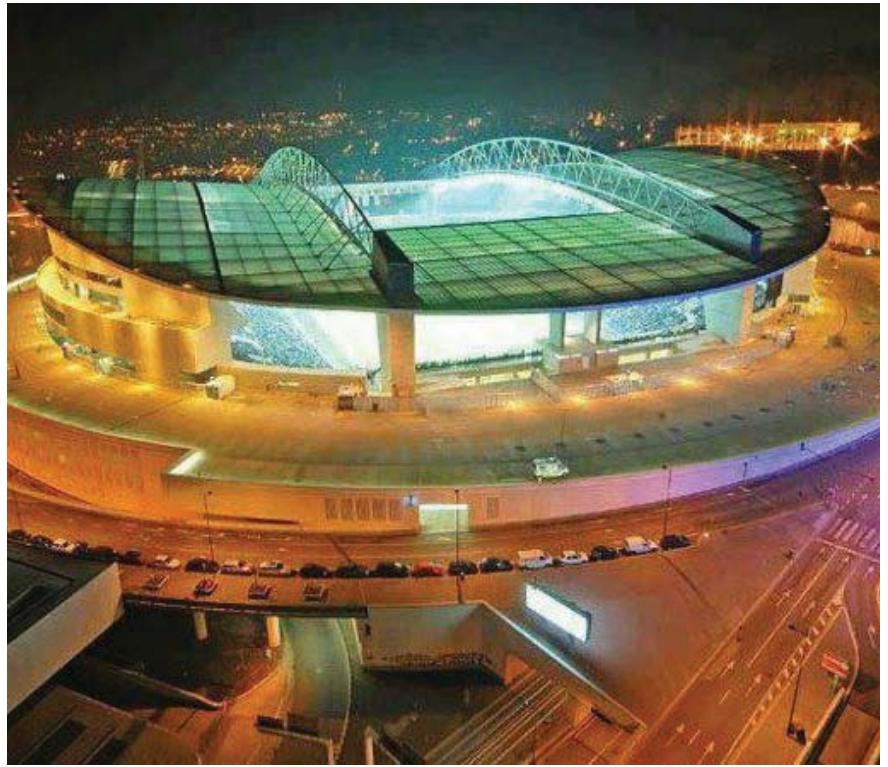
Car park capacity: 1.200 parking spaces

Another stadium in Portugal is FC Porto's new home ground OPORTO STADIUM also called ESTADIO DO DRAGÃO. With seating for 52,000 spectators, the stadium is part of a sports city and real estate complex.

The design of the new Estádio do Dragão is impressive. On its east side, the height of the stadium is equivalent to that of a 14-storey building. The stadium has been classified as a five-star ground by UEFA.

The central point is a plaza surrounding the whole stadium. Below the plaza level, there are team areas, a press centre, technical area and the car park with around 1,200 parking spaces.

The new Estádio do Dragão was opened in 2003.



RAAKS

Haarlem, Netherlands

Car park capacity: 1.200 parking spaces

Raaks in Haarlem is a multifunctional center with shops, offices and apartments. It will also include a 4.250 m² cinema with a capacity of 1.400 seats.

During a period of 7 years, Novenco has advised the designers on the projection and dimension of the ventilation system, smoke control system, CO/LPG detection, fire detection, smoke curtains and pressurization systems of the staircases.

The three-level underground car park has 1.200 parking spaces.

The underground parking was opened in the beginning of 2010.



SHORTLIST NOVENCO CAR PARK VENTILATION SYSTEMS

Country	Project	City	Spaces
Portugal	Dolce Vita Tejo	Amadora	10.000
United Arab Emirates	Dubai Festival City, Zone 8	Dubai	5.856
United Arab Emirates	Jumeirah Beach Residence	Dubai	5.500
Portugal	Norte Shopping	Porto	4.500
United Kingdom	White City	London	4.500
Portugal	Feira Nova Chelas	Lisboa	3.000
Poland	Bonarka City Center	Krakow	3.200
United Arab Emirates	Burj Dubai - The Tower	Dubai	3.000
Portugal	Vasco da Gama	Lisboa	2.900
Germany	Riem Arkaden	München	2.600
Iran	Ekbatan Mega Mall	Tehran	2.500
Portugal	Campo Pequeno P. De Touros	Lisboa	2.500
Portugal	Parque Sede Vodafone	Lisboa	2.100
Portugal	Forum Algarve	Faro	2.070
Denmark	Fields	Copenhagen	2.000
Poland	Złote Tarasy	Warsaw	2.000
Slovenia	Celovški Courtyard	Ljubljana	1.800
Belgium	Zuiderpoort	Gent	1.800
United Arab Emirates	Al Mas Tower for DMCC	Dubai	1.800
United Arab Emirates	DIFC Gate Village	Dubai	1.800
Germany	Spandau Arcaden	Berlin	1.600
Portugal	S.L.Benfica novo estadio	Lisboa	1.500
Turkey	IDTM World Trade Center	Istanbul	1.500
Germany	EKZ Limbecker Platz	Essen	1.400
Netherlands	Haaglanden Megastores	Den Haag	1.400
Turkey	Metro Gross Market	Istanbul	1.400
United Kingdom	Gunwharf Quays	Portsmouth	1.300
Denmark	Ny Rodovre Centrum	Rodovre	1.300
Germany	IKEA	Hannover	1.250
Qatar	Multi Storey Car Park	Doha	1.200
United Arab Emirates	Wafi Hotel	Dubai	1.200
Portugal	F.C.Porto novo estádio Antas	Porto	1.200
Netherlands	Centraal Station	Arnhem	1.150
Netherlands	Ciboga Schots 2	Groningen	1.150
Netherlands	European Patent Office	Rijswijk	1.150
Netherlands	Prinsenhof	Den Haag	1.100
United Kingdom	Hyde Park	London	1.000
Netherlands	Paleiskwartier	Den Bosch	1.000
Denmark	Bruuns Galleri	Arhus	1.000
Denmark	Copenhagen Hilton	Copenhagen	1.000
Portugal	Expo 98	Lisboa	1.000

IMPORTANT

This document is provided 'as is'. Novenco Building & Industry A/S reserves the right to changes without further notice due to continuous product development.

Some pictures in the catalogue show products with accessories fitted.

The fans are designed for continuous operation. The following kinds of operation may cause fatigue break in the impellers and endanger people.

- Operation in stall area
- Operation with pulsating counter pressure – called pump mode
- Daily operation with exceedingly starting and stopping

If in doubt, Novenco should be contacted to assess the suitability of the fans.

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1517779, 1515003, 1555664 and 2312963; EU no. 001622945-0001 to 001622945-0009 and 001985391 - 0001; India no. 246293; South Korea no. 30-0735804; and US no. D665895S, D683840S, D692119S, D704323S, D712023S, D743018S, D755363S and D756500S.

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