

# CASE STUDIES

Protecta® products used in  
construction projects worldwide





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# Ankara Bilkent City Hospital (Ankara, Turkey)



Project start date: 2013

Cost of project: \$1.14bn

Ankara City Hospital Bilkent is a large hospital campus containing a variety of different wards, including cardiovascular, neurology, paediatrics, gynaecology, oncology, physical therapy and rehabilitation.

The hospital also houses a high security forensic psychiatric hospital and a clinical hotel.

The hospital is the largest public and private partnership project for health in Turkey and has the title of being the largest hospital constructed in one piece in the entire world. It also received the Best Infrastructure Finance Award among 100 candidates by the Bonds & Loans Turkey Awards in 2015.



## Protecta® products used:

- FR Graphite
- FR Acrylic
- FR Coating
- FR Collar
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by EB Yapi.



# T1 Shopping Mall (Tallinn, Estonia)



Project start date: 2015

The T1 Mall in Tallinn, a development by Pro Kapital Grupp, is a project unmatched by any other in Estonia and the Baltics. The T1 Mall is the city's newest shopping mall, where shopping and entertainment meet in an innovative way. It's also a busy transport hub which brings people together by tram, bus, train and plane.

The development was designed by Italian Architect, Antonio Lavieri and consists of a 36m high atrium with 6m high viewing windows, giant glass domes and a viewing wheel mounted on the roof.



## Protecta® products used:

- FR Board
- FR Acrylic
- FR ASF
- EX Mortar
- FR Collar
- FR Wrap
- FR Graphite

Protecta® products supplied by GENOKE Trading OÜ.





## Ministry of Taxation Tower (Baku, Azerbaijan)



Project start date: 2013

Cost of project: \$94m

The Tower of Ministry of Taxation of Azerbaijan Republic is a 33-storey (2 basement floors and 31 above ground floors), 168m tall high-rise building. The tower consists of office spaces, lounges and conference rooms, a cafeteria, a restaurant and a fitness club.

The building embraces the essence of the energetic city of Baku while meeting the needs of Ministry occupants under one roof. The distinctive design will make The Ministry of Taxation Tower a classic of 21st century modern architecture.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Coating
- EX Mortar
- FR Pipe Wrap

Protecta® products supplied by EB Yapi.



# HELLA Manufacturing Plant (Kaunas, Lithuania)



## Project start date: 2017

HELLA Lithuania was built to extend HELLA's product range to manufacture control modules for European car manufacturers. Based near Kaunas Airport, the construction of the plant took just 10 months, with Protecta® passive fire protection products used to complete the firestopping works for the project.

The groundbreaking for the production plant begun in October 2017 and after roughly 10 months, in August 2018, the first series of productions had begun. HELLA are planning to use this location to expand their product range.



## Protecta® products used:

- FR Board
- FR Acrylic
- FR Collar
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by GENOKE Trading OÜ.



## Biomedicum Research Institute and Laboratories (Stockholm)



Project start date: 2016

Cost of project: 400 MSEK

Karolinska Institute is an ultra-modern, purpose-built facility for experimental medical research. The new laboratory provides more research space, allowing the Institute to facilitate new opportunities. The experimental research department at Karolinska Institute needed more advanced laboratories and modern facilities to facilitate their growth.

Karolinska Institute required a new building for experimental research across disciplinary boundaries and for collaboration with clinical research. The new campus building added 65,000 square meters of floor space, making Biomedicum one of Europe's largest laboratories.



### Protecta® products used:

- Protecta® firestopping range
- FR Board
- FR IPT

Protecta® products supplied by Polyseam AB.





## Galataport Cruise Port (Istanbul, Turkey)



Project start date: 2015

Cost of project: \$700m

Galataport is the beating heart of Istanbul, built on a stretch of coastline that has been fenced off for over 200 years. With a world-class cruise terminal, luxury hotel, boutique shops, restaurants and office spaces, Galataport promises something new for both tourists and locals.

Galataport's 1.2km pier links old Istanbul to the enchanting Bosphorous, also known as the Strait of Istanbul. When complete, Galataport will transform this area of Istanbul into a public promenade which elegantly connects the city with the sea.



### Protecta® products used:

- FR Graphite
- FR Acrylic
- FR Coating
- FR Collar
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by EB Yapi.



## International Finance Centre (Dubai, UAE)



### Project start date: 2017

Dubai International Financial Centre (DIFC) is the financial hub for the Middle East, Africa and South Asia, providing a world-class platform that connects the region's markets with the economies of Europe, Asia and America.

The Centre includes an independent regulator and judicial system, a global financial exchange, inspiring architecture, support services and a vibrant business community. The infrastructure features ultramodern office spaces, retail outlets, a range of cafes and restaurants, an art gallery, residential apartments, public green areas and a hotel. Currently, more than 1,600 registered companies operate from the Centre with a combined workforce of over 21,000 people.



### Protecta® products used:

- FR Acrylic
- FR Board

Protecta® products supplied by Emirates Technotrade LLC.



## 133 Apartments in Lindholmen (Stockholm, Sweden)

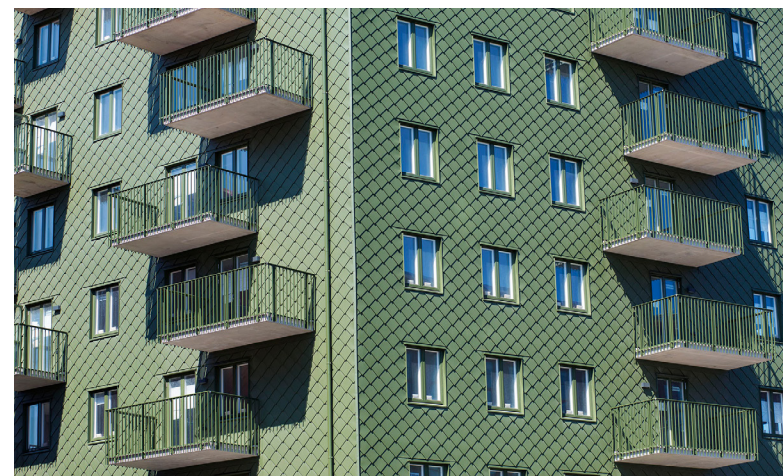


Project start date: 2016

Cost of project: 250 MSEK

Lindholmshamnen is dynamic area with parks, offices and housing. Nestled in greenery, just a stone's throw from the water and the dock, you can enjoy stunning views of the river from the neighbourhood dock.

Located in the Dockan neighbourhood, these residential apartments overlook Lindholmen. When the apartments floor plans were created, making sure that every apartment is able to enjoy the beautiful views was a top priority. Nearly all of the apartments have a balcony and these are placed in a way that adds visual interest to the building.



### Protecta® products used:

- Protecta® firestopping range

Protecta® products supplied by Polyseam AB.



## City Center (Doha, Qatar)



### Project start date: 2011

City Center Doha is the largest, leading retail and leisure destination in Qatar, attracting over 70,000 visitors during holidays and peak times. Connected to 3 luxury hotels, the shopping mall houses retail shops, a cinema, 38 family restaurants and more. City Center is based in the heart of the economic district of Doha in West Bay, just 25 minutes away from Hamad International Airport.

Visitors to City Center can enjoy over 5 floors of regional and local shops, a wide range of restaurants and fast food outlets plus a family and entertainment centre which includes a bowling alley, ice rink and a 14-screen cinema complex.



### Protecta® products used:

- FR Graphite
- FR Acrylic
- FR Board
- EX Mortar

Protecta® products supplied by Qatar Fire Seals.





# Ülemiste Keskus Shopping Centre (Tallinn, Estonia)

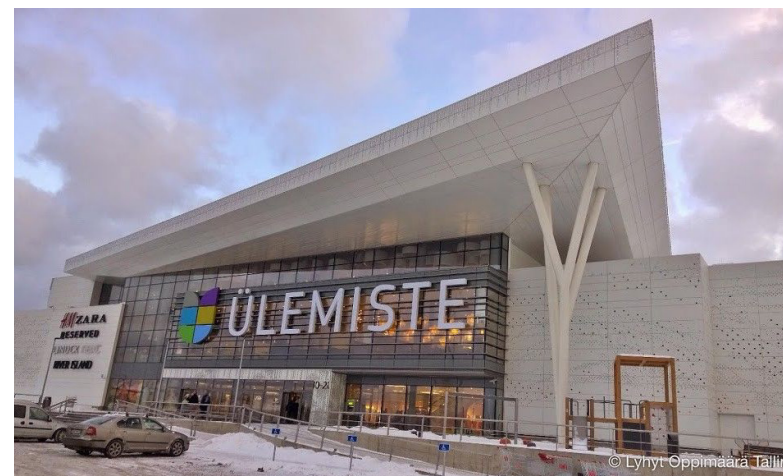


Project start date: 2011

Ülemiste Keskus is the largest shopping mall in Tallinn, Estonia, housing over 220 shops, 18 restaurants and a large cinema. It's also the first shopping mall in Estonia to receive BREEAM status due to its lower environmental impact, using 50% less energy and 40% less water than typical developments.

Designing a building to BREEAM standards poses more stringent requirements as the building must be sustainable and the materials used must adhere to environmental requirements.

Protecta® firestop solutions were fitted by local contractor Tefire Group OÜ, as our products offer low emission of VOCs, low air permeability and consider environmental impact.



Protecta® products used:

- Protecta® firestopping range

Protecta® products supplied by GENOKE Trading OÜ.





## Hyatt Regency Luxury Hotel (Mumbai, India)



### Project start date: 2011

Located minutes away from Mumbai International Airport, Hyatt Regency Mumbai is a contemporary and stylish 5\* luxury hotel with close connections to local growing businesses, shopping and commercial centres.

Protecta® products were used to complete firestopping works for the luxury hotel renovation project in North Mumbai, delivering 120 minutes of fire resistance. Protecta® EX Mortar and FR Pipe Wrap were used to successfully seal plastic pipe penetration services by local contractors Falcon Acoustics & Passive Fire Solutions under a tight build schedule, with 4 floors completed each week.



### Protecta® products used:

- EX Mortar
- FR Pipe Wrap

Protecta® products supplied by Falcon Acoustics & Passive Fire Solutions Pvt. Ltd.



# Fortum Klaipeda Waste Management Facilities (Lithuania)



## Project start date: 2011

UAB Fortum Klaipėda was founded in 2007 and this cogeneration unit has been operating in Klaipėda since 2013. Fortum Klaipėda plays a significant role in the waste management chain and contributes to the implementation of the circular economy in Lithuania.

The plant, which uses non-hazardous municipal and industrial waste as fuel, is the first in Lithuania and the Baltic States. Power is produced using the latest technology for maximum fuel consumption and efficient exhaust gas cleaning. The heat is supplied to the district heating network of Klaipėda and the electricity to the national electricity network.



## Protecta® products used:

- FR Board
- FR Acrylic
- FR Collar
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by GENOKE Trading OÜ.



# Continental Manufacturing Plant (Kaunas, Lithuania)



## Project start date: 2019

2019 saw the build of Continental's new Automotive Lithuania AUB, based in Kaunas, Lithuania.

The new 16,000m<sup>2</sup> manufacturing plant will produce a range of products for Continental's Body & Security and Advanced Driver Assistance System.



## Protecta® products used:

- FR Board
- FR Acrylic
- FR Collar
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by GENOKE Trading OÜ.



## Quadrum Office Complex (Vilnius, Lithuania)



Project start date: 2016

Quadrum is a new business city consisting of 3 large buildings, strategically located in the centre of Vilnius, Lithuania. Multi-functional and innovative, Quadrum is an inspiring co-working space with on-site shops, restaurants and sports facilities. The modern development has received BREEAM status and boasts energy saving solutions that reduce utility costs by 40%.

Protecta® products meet the strict requirements of a BREEAM status building due to low emission of VOCs, low air permeability and lower environmental impact, as well as offering 120 minutes of fire protection.



### Protecta® products used:

- FR Board
- FR Acrylic
- FR Collar
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by GENOKE Trading OÜ.



## Atatürk Cultural Centre (Istanbul, Turkey)



Project start date: 2019

Cost of project: \$170m

The Atatürk Cultural Centre was built to accommodate the performances of international stature and was designed to contemporary requirements and technologies. A very urban and modern structure, the Centre is expected to be a major attraction for the city's residents and tourists visiting from around the world.

Preservation, restoration and a new 21st century design provides the foundation and future for this public project that will serve generations of citizens and visitors.



### Protecta® products used:

- FR Coating
- FR Acrylic
- EX Mortar
- FR Pipe Wrap

Protecta® products supplied by EB Yapi.





## Radisson Blu Hotel (Niamey, Nijer)



Project start date: 2019

Cost of project: \$32m

The new hotel in Niamey city centre is conceived as an integrated banquet and congress hotel complex where the functions complement each other. The hotel will operate through out the year with extensive views of the river Niger, to the West.

The circa 196 key hotel includes a banquet hall, numerous conference rooms, an all day dining restaurant, lounge bar, Irish bar, swimming pools and spa. There are 170 standard rooms, 12 Executive Suites, 12 Junior Suites, a royal presidential suite, and a presidential suite. The total area of the complex will be over 21,000sqm.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Coating
- EX Mortar
- FR Pipe Wrap

Protecta® products supplied by EB Yapi.



## Victoria Residency Residential Apartments (Dubai, UAE)



### Project start date: 2016

Victoria Residency is a residential development located behind the famous Ibn Battuta Mall, adjacent to Discovery Gardens. The development comprises of townhouses and villas, as well as the renowned Masakin Al Furjan development.

The heart of this development is the Al Furjan Road, which is where the Victoria Residency is located. The development has been strategically located with prospect of capital appreciation due to its close connectivity with Expo.



### Protecta® products used:

- FR Graphite
- FR Acrylic
- FR Board
- FR Pipe Wrap

Protecta® products supplied by Emirates Technotrade LLC.



## Acme Ozone (Mumbai, India)



Project start date: 2018

Acme Ozone in Manpada, Mumbai Thane by Acme Group Builders is a residential project.

The project offers apartments with a perfect combination of contemporary architecture and provide comfortable living for its residents.

Ozone's facilities include gym, a jogging track and a swimming pool. Ozone is spread over a total area of 14 acres of land and has a total of 8 towers with 27 floors.



### Protecta® products used:

- FR Acrylic
- FR Board
- FR Foam

Protecta® products supplied by Falcon Acoustics & Passive Fire Solutions Pvt. Ltd.



# REDI Shopping Complex & Underground Parking (Helsinki)



## Project start date: 2011

REDI is a large shopping centre expanding over 64,000m<sup>2</sup> in Helsinki, Finland. With over 175 popular shops, 43 restaurants, large food market and on-site cinema, REDI is known for being “a city inside a city”.

REDI also houses a large parking tunnel that was mined to rock underneath and runs below the ground, close to the sea. It's named 'Kalliopysäköinti' which means 'rock parking' in English.

Protecta® firestopping products were used for the project to protect linear joints and various mechanical and electrical penetrations, including pipes and cables when passing through fire rated walls and floors



## Protecta® products used:

- Protecta® firestopping range

Protecta® products supplied by Protecta Palokatko.





## Ankara Etlik City Hospital (Ankara, Turkey)



Project start date: 2013

Cost of project: \$1.3bn

Ankara Etlik City Hospital was initiated within the framework of a Public Private Partnership (PPP) agreement between the Turkish Ministry of Health and Türkerler-Astaldi Partnership.

Ankara Etlik City Hospital is considered to be among the largest hospitals in the World with a 3,624-bed occupancy, 1.1million m<sup>2</sup> surface and 1.1 billion Euro investment value. In this hospital, there are six different specialty hospitals connected to each other through a main core building. These hospitals include obstetrics and gynaecology, paediatrics, cardiology, oncology, orthopaedics and neurosurgery and a general hospital.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Coating
- EX Mortar
- FR Pipe Wrap
- FR Collar

Protecta® products supplied by EB Yapi.





## Pearl Wisdom School (Dubai, UAE)



### Project start date: 2019

Pearl Wisdom School is a new entrant to the highly competitive Dubai schooling space with a strong focus on 'innovative schooling.' With the grand opening in 2020, the school is currently offering a new, Indian CBSE curriculum and Distance Learning only-based education for its pupils.

The school put extra emphasis on physical education and this is supported by a huge investment into a floodlit outdoor sports field and shaded swimming pool.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Board
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by Emirates Technotrade LLC.



## Elite World Sapanca Hotel (Sakarya, Turkey)



Project start date: 2019

Cost of project: \$130m

Elite World Sapanca Convention & Wellness Resort received an investment of \$130million for its build, expanding over an area of 4.4 acres and with a room capacity of 500, it become a pioneer of firsts in Sapanca.

The hotel incorporates many features including the region's first and only bio-lagoon and Turkey's first outdoor and heated seawater pool. It also features Turkey's largest wellness and spa area, boasting a surface of 8,500 m<sup>2</sup>, including a designated spa area for children and meeting halls with 3,000 capacity



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Coating
- EX Mortar
- FR Pipe Wrap

Protecta® products supplied by EB Yapi.



# Das Haus Residential Apartments (Tallinn, Estonia)



Project start date: 2018

Das Haus consists of 4 different buildings which form a comprehensive residential quarter. All buildings have separate entrances and lobbies but they are connected through underground parking.

Das Haus is undoubtedly located in the best location in Tallinn city centre. Das Haus is characterized by bright 1-5 room apartments, high ceilings and underground parking. Most of the apartments have terraces, balconies or private patios. On the first floor there are commercial premises and a restaurant.

Das Haus project involves the best architects in Estonia.



## Protecta® products used:

- FR Acrylic
- FR Board
- FR Pipe Wrap

Protecta® products supplied by GENOKE Trading OÜ.



## The One Hotel Business Bay (Dubai, UAE)



### Project start date: 2017

One Hotel at Business Bay is situated in the heart of this dynamic, upcoming district of Dubai.

This spectacular 492 room, four-star hotel will be managed by highly respected international operator Millennium & Copthorne Hotels under its Millennium Place brand.

Millennium Place is a contemporary lifestyle hotel concept designed for modern travellers who value top-quality guest services and amenities at an affordable price point.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Board
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by Emirates Technotrade LLC.



## Al Quoz Bus Depot (Dubai, UAE)



### Project start date: 2019

The construction of the Al Quoz Bus Depot has helped to update the infrastructure of mass transport to encourage locals to use public transport as their means of daily movement.

This facility includes a residential quarter to accommodate 368 drivers, a food court which seats 120 individuals, a clinic, a rest area and a gym.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Board
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by Emirates Technotrade LLC.





## Carson Tower By Damac (Dubai, UAE)



### Project start date: 2018

Developed by Damac Properties, Carson Towers is located in the renowned golf community. It offers a collection of premier apartments unveiled by Damac Properties.

This luxury living is comprised of studios, 1 and 2-bedroom apartments with a wide range of amenities within the building and community.

The residents of Carson Towers will have the opportunity to enjoy and experience the remarkable views of Polo Club and Trump International Golf Club.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Board
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by Emirates Technotrade LLC.



## Elite World Asia Hotel (Istanbul, Turkey)

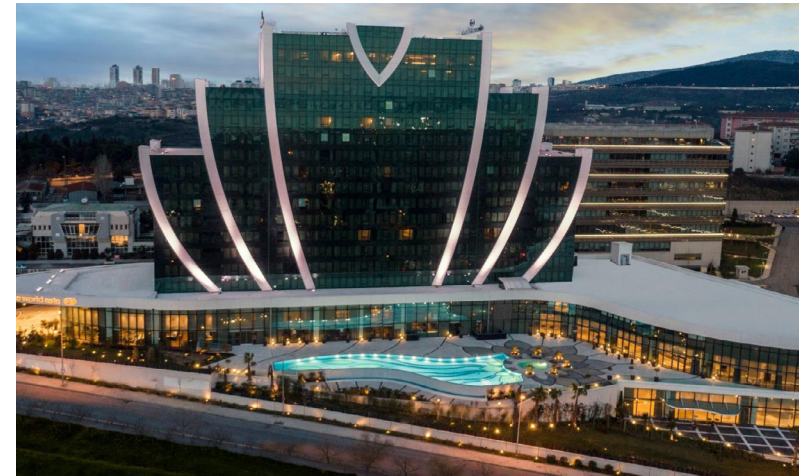


Project start date: 2018

Cost of project: \$120m

The newest member of the Elite World Hotel chain, Elite World Asia Hotel, located in Küçükyalı, offers its guests comfortable rooms, a view of the sea and a new-gen meeting concept “Business to Happiness”.

As Turkey’s fastest growing local hotel chain, Elite World Hotels have invested \$120 million dollars in the new hotel which has 350 rooms, a capacity of 700 beds and offers its guests a view of the sea and the Islands. The hotel houses a ballroom and 11 meeting rooms which can accommodate up to 500 guests. In addition, the poolside event area can accommodate up to 300 people, offering an ideal venue for weddings, parties or cocktail events.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Coating
- EX Mortar
- FR Pipe Wrap

Protecta® products supplied by EB Yapi.



## The Palm Tower (Dubai, UAE)

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### Project start date: 2017

The Palm Tower is a 52-storey five-star hotel and residential development in the heart of Palm Jumeirah. The development features award winning architectural design and the tower is one of Dubai's most prestigious addresses.

It comprises of 432 spacious, elegant apartments and a new five-star hotel, St. Regis Dubai - The Palm. It features outstanding amenities including one of the world's highest infinity pools on the 50th floor, two swimming pools at podium level, a 51st floor signature restaurant and a viewing deck on the 52nd floor boasting spectacular views in every direction.



### Protecta® products used:

- FR Acrylic

Protecta® products supplied by Emirates Technotrade LLC.



## Community Hall Barsha (Dubai, UAE)



Project start date: 2018

Community Hall Barsha was funded the Dubai Government to provide a basic service building for citizens and to provide a social environment for locals.

The main building consists of 3 floors and houses a showroom, a multi-purpose hall, a theatre, men's and ladies' prayer rooms and electromechanical services, leisure classes, a gym, men's and ladies' swimming pools, an electronic games hall and administrative offices for the staff.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Board
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by Emirates Technotrade LLC.



## Avanti Tower By Damac (Dubai, UAE)



### Project start date: 2018

In an exceptional location, Avanti offers a vibrant city life to its residents. With 15 stories of contemporary elegance, this tower block has state-of-the-art facilities which create a living experience beyond the ordinary. Equipped with tasteful furnishings, luxurious kitchens and large balconies, this stylish tower is the perfect place to call home.

Avanti stands near to the Burj area, with the city's main attractions nearby and access to key highways just a stone's throw away.



### Protecta® products used:

- FR Acrylic
- FR Graphite
- FR Board
- FR Pipe Wrap
- EX Mortar

Protecta® products supplied by Emirates Technotrade LLC.





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