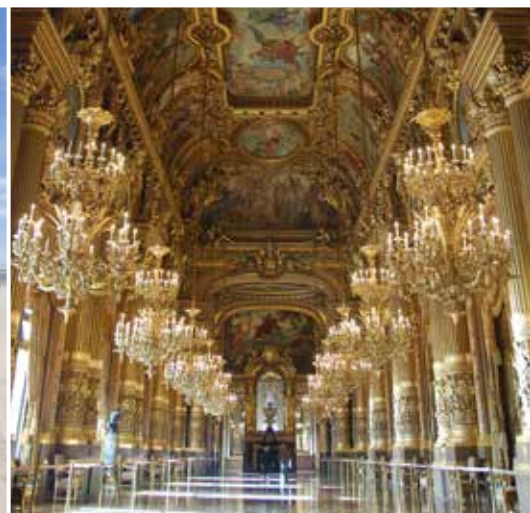


INTERNATIONAL PROJECTS



THE POWER OF A **WORLD LEADING COMPANY** IN THE HEATING BUSINESS

RETTIG ICC MARKETS A VARIETY OF TOP BRANDS, WELL-KNOWN TO PROFESSIONALS IN THE HEATING BUSINESS AT EUROPEAN AND WORLDWIDE LEVEL.

This boast is backed up by its strong brands and pan-European operations as well as a large, attractive range. The values that the company brings to its customers are based on the creation, maintenance and development of win-win commercial relationships.

Today, the Rettig Group has the contributions of c. 4400 experienced and enthusiastic employees behind it. Together, they provide the daily energy that is vital for passing these values on to our direct and indirect customers throughout northern, western and eastern Europe. Beyond the continent of Europe, we must also mention our growing operations in Asia and America. Rettig's products consist of steel panels, decorative, column, plinth, ventilo-convectors, bathroom radiators and under-floor heating systems. These products complement those offered by Rettig's sister division, Rettig ICC Group, which comprises thermostatic valves for heating and air conditioning, radiator collectors, electronic equipment, electronic control programmes and equipment. ■

PROVEN AND TRUSTED

When you choose Purmo Radson, you choose a reliable partner with almost 80 years of experience. We pride ourselves in being the first choice for architects and specifiers the world over. They keep coming back because of our quality, reliability and service. Take a look at what we have done already in different countries for several different projects.



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FOR IOS, ANDROID & BLACKBERRY



FACTS AND FIGURES

RETTIG ICC

TURNOVER (2014)

€ **560 MILLION**

15 PRODUCTION UNITS
IN **11** COUNTRIES

1 NO. 1 WORLDWIDE
RADIATOR
MANUFACTURER

NUMBER OF
EMPLOYEES
3,000

EXPORT TO OVER

50 COUNTRIES

NO. 3 WORLDWIDE
MANUFACTURER OF
UNDERFLOOR HEATING

PURMO

MORE THAN
200 COLOURS

2 ON 1
PRINCIPLE 2 STEEL FINIS
ON EACH
HEATING
CHANNEL

15%
LTR:
ENERGY SAVINGS

100%
INVOLVEMENT

2.500
POSSIBILITIES

10 80
10 YEAR
GUARANTEE
80 YEARS
EXPERIENCE



THE EUROPA CENTER FINKENWERDER, PART OF THE AIRBUS TECHNOLOGY PARK II, STANDS ON THE HEIN-SASS-WEG IN HAMBURG. OFFICE SPACE FOR DEVELOPERS, SUPPLIERS AND SERVICE PROVIDERS IS BEING CREATED RIGHT NEXT TO THE AIRCRAFT MANUFACTURER'S MAIN PLANT. RAMO VENTIL COMPACT RADIATORS BY PURMO ENSURE A PERFECT ROOM CLIMATE IN THIS 'GREEN' BUILDING.

The technology skills of the Finkenwerder site have been continuously enhanced in recent decades. This has drawn a number of service providers which specialise in aviation and aerospace to relocate close by, along with the engineering partners of EADS and Airbus who benefit greatly from the close customer proximity.

With a combination of the offices being built here, together with industrial buildings and a multi-storey car park, the new EUROPA CENTER Finkenwerder - Airbus Technology Park II (ATP II) has a host of site advantages, all designed to enhance customer collaboration. Dr Gregor Brendel, CEO of Europa-Center AG, says, "The ATP II adds another successful module to the metropolitan region's aviation cluster." The real estate group develops, builds, leases and manages high-end office and business premises, as well as sophisticated logistics and industrial buildings

PERFECT ROOM CLIMATE IN **AIRBUS TECHNOLOGY PARK II**

PROJECT OVERVIEW EUROPA CENTER FINKENWERDER (AIRBUS TECHNOLOGY PARK II)

Working with a view of the Elbe in a temperature-controlled office: 680 Purmo radiators ensure a perfect room climate in the offices which account for 14,000 m² of this 'green' building. With their high thermal efficiency they are a perfect match for this project which, in addition to the many advantages of its location and functionality, also makes the ecological aspect one of its top priorities.





“THE AIRBUS TECHNOLOGY PARK II ADDS ANOTHER SUCCESSFUL MODULE TO THE METROPOLITAN REGION’S AVIATION CLUSTER”

throughout Germany. It is not only the immediate proximity to the works site, the synergy effects and the great links to the data infrastructure that stand out. There are other obvious advantages as well: the property is tailored to the tenants’ requirements. It is divided up and equipped according to use - from open-plan to individual offices with communication areas. A central reception, external secretarial services, guest workstations and a conference area complete the facilities offered.

The investor also attaches great importance to the ecological aspects. As a result, the office building has been developed in line with leading edge and environmentally-friendly green building standards. Long-lasting building materials and products, renewable energies and low service charges are important components of the project. Purmo radiators by the Rettig company also make a significant contribution to this with their high thermal efficiency and fast response times to a wide variety of temperature requirements. Paul Rühmer, CEO of Sanitär- und Heizungstechnik Vechta GmbH, says,

“Radiators do really well in daily work situations. Every room can be individually controlled and is set up for the user’s personal levels.” The radiators guarantee a high level of comfort depending on the individual employee’s general wellbeing, the number of occupants and the space. This is because the heat is distributed immediately, silently and evenly. The temperature reaches a uniform level - from floor to ceiling - within just a few minutes. This intelligent solution prevents overheated rooms, is virtually maintenance-free and reduces energy costs. The building owner decided on Ramo Ventil Compact for the offices of the Airbus suppliers. Rühmer says, “This model, which is still pretty new, impressed us immediately during sampling. The product not only has quality but is also very stylish.” Workmanship and design speak for themselves, as do the finely sectioned flat fronts in the standard colour RAL 9016 pure white. The compact unit (overall height 600 millimetres, overall length 800 millimetres) is more than just a utility object in the ATP II. “It was important for the radiator to fit in with the overall architectural image.” In

Finkenwerder the Ramo Ventil Compact is discreetly elegant, has classic good looks and has a smooth sectioned front. Its especially easy-care surface is another of its plus points. A standard integrated valve body and concealed pipe system enable virtually invisible connection. In the ATP II, the Purmo radiators were connected to a conventional gas condensing boiler. This secondary heating circuit enables a system temperature of 55/45/20°C.

Whether as company headquarters, back office or regional branch: the emphasis in this office building in Finkenwerder was on tailoring the area to the tenants’ requirements. The radiators were attached exclusively to external walls so that the space can be divided up according to the tenants’ wishes. The grid-like appearance of the façade was used as orientation during installation to ensure variability of the interior construction.

It is possible to install or remove interior walls in the offices without incurring any expense in connection with the radiators if architectural changes are made. ■



PURMO BRINGS LOW TEMPERATURE HEATING TO LAUNDE ABBEY

TODAY, LAUNDE ABBEY, SET IN 450 ACRES OF PARKLAND ON THE BORDERS OF LEICESTERSHIRE AND RUTLAND, IS A POPULAR SPIRITUAL RETREAT CENTRE FOR PRAYER AND CONTEMPLATION FOR PEOPLE OF ALL FAITHS.

Despite its historic heritage, its heating system is now entirely modern, thanks to its latest refurbishment. Launde Abbey now has a biomass boiler and a large number of Purmo Compact and Delta radiators, providing warmth for the centre’s many visitors. There are 39 bedrooms, each with en-suite bathroom facilities which were installed during the refurbishment, accommodating up to 78 people. MHJ Services Ltd, who installed

the Purmo products, said: “The purpose of the renovation was to reduce the carbon footprint of the building by around 95 per cent. Underfloor heating was fitted, with the Purmo radiators then completing the low temperature installation. The radiators were very straightforward to install and added the perfect finishing touches to the project.”

The Purmo Compact is one of the most energy efficient designs on the market, benefitting from excellent rapid reaction to its changing environment, thus ensuring the optimum room temperature. It only requires a small amount of water to function; it heats up very quickly and is easy to control. The large convector plate within the design means that heat is emitted across a greater surface area,

distributing heat more evenly around the room. Purmo’s Delta Laserline radiators are a firm favourite for conventional systems but are also perfect for use with low temperature heating systems, while blending perfectly with their historic surroundings. The Delta has been designed using proven convection technology, making it ideally suited to give a truly energy efficient output from lower water temperatures. Originally, Launde Abbey was home to an Augustinian Priory founded in 1119, but all that remains of the original building is the Chapel, which dates from the 12th and 13th centuries. The large Priory Church was largely destroyed in the English Reformation of the mid 16th Century and what remained of Launde Abbey was rebuilt as a private home, which was also extensively remodelled in the Victorian era. ■



PROJECT OVERVIEW LAUNDE ABBEY

Launde Abbey, the Residential retreat House and conference Centre serving the dioceses of Leicester and Peterborough, has had 60 Purmo radiators installed as part of an extensive refurbishment programme. 44 Purmo Compact and 16 Delta Laserline radiators were fitted during the renovation of the 12th Century property. The Radiators for the piano room and the library were powder coated brown to match the building’s interior panelling.



PUTTING A SMILE ON THE FACE OF THE PHANTOM OF THE OPERA

BUILT IN 1875 AND NAMED AFTER ITS ARCHITECT CHARLES GARNIER, IT IS ONE OF THE MOST ICONIC BUILDINGS IN PARIS. OPÉRA GARNIER HAS THE LARGEST STAGE IN EUROPE, CAPABLE OF ACCOMMODATING UP TO 450 ARTISTS, AND WAS THE INSPIRATION AND SETTING FOR GASTON LEROUX'S CELEBRATED 1910 GOTHIC NOVEL THE PHANTOM OF THE OPERA. SET IN CENTRAL PARIS, THIS BUILDING'S RICH HISTORY IS COUPLED WITH AN INTERIOR DÉCOR AS SUMPTUOUS AS ITS EXTERNAL ARCHITECTURE IS ELEGANT. WHICH MEANS THAT ANY CHANGES, INSIDE OR OUT, MUST ABSOLUTELY BE IN KEEPING WITH THESE EXTREMELY HIGH STANDARDS. SO WHEN REPLACEMENTS WERE NEEDED FOR 130 PLINTH RADIATORS, EXPECTATIONS WERE HUGE.

Says Séverine Delauney "We met Mr Vasseur the Technical Director of Opéra Garnier during the Interclima Trade Fair in Paris, where he outlined the challenges he faced. First of course, the radiators would have to match the beautiful interior décor of the administration offices. Equally important was the output: the radiators had to be effective, in terms of heat delivery as well as running costs."

A MODERN SOLUTION FOR CLASSICAL DEMANDS

At the Interclima Trade Fair, a number of Radson products were showcased, and one in particular caught Mr Vasseur's attention. "Our sales team went above and beyond during the meeting," says

Séverine Delauney, "they highlighted the benefits and beauty of the Radson Delta range. As well as the highly aesthetic nature of these radiators, there is also the extremely efficient heat output of the units." So with the combination of physical excellence and economic considerations, the deal was quickly sealed. "The building itself is truly magnificent, a testament to mid-19th Century architecture, says Séverine Delauney. It was clear that we had a real challenge on our hands to live up to this kind of standards, and of course, we lived up to each and every one of them."

First, the radiators had to be sited in the same locations as the old units, which were often beneath very high windows.

"With a stone building of this age, the insulation characteristics of older windows means certain installation sites are going to require more output than others," explains Séverine Delauney. "And obviously we inspected and calculated the requirements for each of the multiple sites in the building. The solution in this case was to produce custom-made Radson Delta radiators for the project, to ensure an even heat distribution across the entire area, incorporating the heat requirements of each specific site."

THE ORCHESTRATION OF EFFECTIVE INSTALLATION

Installation began in November and was completed 4 months later in March. "The custom-made units ranged from

155-300mm in height, installed depending on requirements," explains Séverine Delauney, "and we opted for six-column units, reflecting the aesthetics of the radiators we were replacing, as well as ensuring optimum output with economic performance. In some cases, we had to replace two radiators with a single unit, a challenge we solved by joining two Radson Deltas together, which ensured the required output while still retaining the necessary aesthetic values.

And of course safety is always a consideration in any of our installations, so in several cases, for floor-standing units, we doubled the number of feet supporting the radiators too." ■



"With a stone building of this age, the insulation characteristics of older windows means certain installation sites are going to require more output than others"



PROJECT OVERVIEW OPÉRA DE PARIS

Opera remains a challenging subject for many of us. Some love it, some... not so much. But whatever your opinion on this particular form of artistic expression, one thing is clear. As Séverine Delauney concludes: "it has warmed the hearts of millions for generations, and with the help of the team from Radson France, this particular Opera will warm the rest of them for many more years to come."

PURMO CHINA WINS DAGANG OILFIELD PROJECT



WORK ON THIS PROJECT BEGAN OVER TWO YEARS AGO, WITH MUCH DEBATE OVER THE HEATING SYSTEM. INITIAL PLANS INCLUDED STEEL COLUMN RADIATORS, BUT AN UNDERFLOOR HEATING SYSTEM AND, LATER, CAST IRON RADIATORS WERE ALSO CONSIDERED. THE DESIGN INSTITUTE PROVIDED FIVE OR SIX DIFFERENT VERSIONS OF BLUEPRINTS CONSIDERING BOTH PRICE AND TECHNOLOGICAL ISSUES. THREE BRANDS WERE INVITED TO PROVIDE THEIR REFERENCE DRAWINGS AND RECOMMENDATIONS AND, IN THE FINAL ANALYSIS, RETTIG PURMO STEEL PANEL RADIATORS WERE SELECTED.

KNOWLEDGEABLE SELLING SKILLS

To further the aims of the Gangxi New City Project, Dagang Oilfield, the Rettig Purmo marketing team put their energies into extensive research. After collating all the information and analysing the project's heating needs, they submitted a proposal which clearly demonstrated their understanding of the customer's and the project's needs. As a result they clearly won the respect and confidence of the client and were rewarded with the contract.

When it came to the products themselves, the marketing team had no problem in conveying to the customer the benefits and advantages of buying Purmo radiators. Rettig's representatives in China take pride in being able to recommend the best options in plain, easily understood language, being able to answer questions about each product's ongoing performance, as well as its individual characteristics. By August 23,

2013, within just the first month, 43,000 units of the steel panel radiators had been delivered without problem. The Project involved 56 containers, 800,000 m² building area, 124 skyscrapers, 7,500 families, 7 plots, 8 construction contractors, 25 heating installation teams and over 200 relevant personnel related to customers.

SUCCESS OF RETTIG GROUP

This order for 43,000 units was the result of great leadership and excellent team effort within the Rettig China organisation, reflecting the level of effort that they devote to all their endeavours. In order to make it a success in reality, however, a great deal of cooperation was needed between the sales team in China and the teams at Rettig's European factories. Thanks to its ability to forge close links between its teams, Rettig Group is able to rank as the world leader in the production, manufacture and supply of radiator products ■



PROJECT OVERVIEW DAGANG OILFIELD

Gangxi New City Staff and Worker Residential Project, Dagang Oilfield ("Dagang Oilfield Project") completed its first phase (building area: c. 800,000 m²) by October 30. This phase includes 7,500 houses in four types -A, B, C and D; the wall-mounted boilers are adopted and the heat radiators are approximately 43,000.

MICX CONGRESS CENTRE, RISING STAR OF MONS, EUROPEAN CAPITAL OF CULTURE

CNN HAS DUBBED MONS, EUROPEAN CAPITAL OF CULTURE, THE TOP TOURIST DESTINATION OF 2015, ALONG WITH THE CZECH CITY OF PILSEN. VISITORS ARE BOUND TO BE LEFT IN AWE WHEN THEY SEE MICX, MONS' FLAGSHIP CONGRESS CENTRE. IT HAS BEEN SPECIALLY DEVELOPED NEAR THE GRANDS PRÉS DISTRICT AND RAILWAY STATION, JUST A SHORT WALK AWAY FROM THE CITY CENTRE.



TECHNICAL CHALLENGE

There was no room for radiators in the MICX congress centre. That is why over 1000 square metres of high-quality Purjet underfloor heating and cooling was installed. Radson's projects account manager Robert Curtz says: 'The building has irregularly shaped concrete and stone floors which are left bare. Both surfaces react differently to heating and cooling. Limited wattage was also a requirement, but that's our job. Energys, the installer, contacted us for our know-how, technical advice and estimates. We tackled the technical challenges jointly with the research department of construction developer CIT BLATON. The result is a building which is almost energy neutral, in line with all today's norms. This makes the prestige project a calling card for the three companies involved. Energys even took this literally: the company proudly pictured MICX on its end-of-year greetings card.

TOURIST ATTRACTION

The Congress Centre was recently completed and already appears to be a highly valued addition to the city. Months before construction was finished, dozens of events had already been booked to take place in the building. Mayor Elio di Rupo says MICX is 'part of our tourism plan to put Mons on the map as a congress city'. ■

PROJECT OVERVIEW CONGRESS CENTRE, MONS

The eye catching boat-shaped Congress Centre, which is also greatly admired for its sustainable technology and energy-saving achievements, was designed by none other than Daniel Libeskind, architect for New York's World Trade Center site master plan.





BUCHAREST'S PROMENADA MALL CHOOSES PURMO AQUILO

MATCHING LANDMARK DESIGN WITH QUALITY HEAT EMITTERS

THIS IMPORTANT DEVELOPMENT IS PART OF THE MULTIFUNCTIONAL FLOREASCA CITY CENTER, ALSO HOME TO THREE MAJOR OFFICE BUILDINGS. LOCATED AT THE CROSSROADS OF FLOREASCA ROAD, PIPERA ROAD AND BARBU VACARESCU STREET, PROMENADA IS PERFECTLY PLACED ALONGSIDE SEVERAL OFFICE PROJECTS WHICH HAVE BEEN DEVELOPED OVER THE PAST FEW YEARS.

MODERN ARCHITECTURE MEETS MAJOR FOOTFALL

More than 500,000 people make up Promenada Mall's catchment area, with an estimated 25,000 daily visitors making a major contribution to the city's busy economy. Built over 22 months at a cost of €130 million, the landmark project was the vision of Romanian architectural practice B23T, and was developed by

Raiffeisen Evolution. What makes this building exceptional is not only its high visibility and modern architecture, but also the sheer scale of the project.

Promenada Mall is comprised of a three-dimensional pre-formed steel structure, following the architectural joints of the façade. It has 140 shops across 6 levels: 3 basement levels, a ground floor level and 2 upper levels, as well as 1,300 underground parking places. The crowning glory is a dual-purpose roof terrace, covering an impressive 7,000 sqm, which is a green garden in summer and an ice rink during winter months.

SUSTAINABLE COMFORT, INVISIBLE AESTHETICS

Promenada Mall holds the prestigious DGNB Gold certification for sustainability, and its commitment to visitor comfort is clear the moment you

step onto the building's topmost floor. It is here that you can see the food court, coffee shops area and world-class gym and fitness club. But it's what you can't see that envelops the whole floor with comfort: the humble Purmo Aquilo FMK trench convactor. Seventy Purmo Aquilos were installed, discreetly underfoot, for a variety of reasons. The high traffic open space has no suitable wall space for standard heat emitters, and has strict hygiene standards, so in-floor mounting was the optimal solution.

Purmo Aquilo FMK convectors are specially designed for in-floor installation, with a black copper-aluminum heat exchanger mounted inside a double-sided black galvanized steel duct. The FMK model is available in widths between 180-420mm, lengths from 1,000 to 3,500mm and depths from 90 to 140 mm. The mounted aluminium grids were coloured black in order to

blend with modern trends. To match the décor and fittings of the surroundings, a suitable masking grille was installed over each floor trench or duct to complete the installation. The choice of the FMK means that the usual consideration for visible aesthetics played no role: the client was, however, delighted with what they can't see: year-round indoor comfort.

JUST ASK THE NEIGHBOURS

Promenada Mall's bigger neighbour is the Sky Tower, the tallest building in Romania, with 37 floors over 137 metres. The two buildings look very different, but have one important thing in common: Purmo. Inside the Sky Tower, 500 Purmo Ventil Compact radiators work silently and constantly to bring the best indoor comfort to residents and visitors in this eco-friendly landmark. Combining high efficiency with low operation costs, it's another important project that we are very proud to be part of. ■

PROJECT OVERVIEW PROMENADA MALL

Promenada Mall is Bucharest's newest shopping and entertainment mall, and destined to be its most popular. Located next to Sky Tower, the country's tallest building, Promenada boasts modern design, large big-brand stores and stunning rooftop garden at a staggering 25 m high. The top floor houses the mall's food court, coffee shops and fitness centre, and it is here where Purmo Aquilo keeps customers and visitors in the height of comfort.

HOSPITAL HYGIENE WITH COMFORT AND CARE

HEAT EMITTERS FOR SUSTAINABLE STOCKHOLM



PROJECT OVERVIEW KAROLINSKA UNIVERSITY HOSPITAL

New Karolinska Solna was developed with a focus on patient privacy, security and comfort. Which is why they chose Purmo Hygiene radiators – 5,000 of them. Purmo Hygiene, once again, proves to be a valuable component in a very worthy project.

VISIT CENTRAL STOCKHOLM AND YOU WILL BE ASTONDED BY THE RANGE AND BEAUTY OF ITS BUILDINGS, NOT LEAST THE MAGNIFICENT KAROLINSKA UNIVERSITY HOSPITAL. THIS COMPLEX OF CARE HAS 630 WARDS, AND THE NEWEST ADDITION TO THE SITE IS THE NEW KAROLINSKA SOLNA, DUE FOR COMPLETION MID-2015. ATTENTION TO DETAIL IS CRUCIAL IN A BUILDING THAT LOOKS AFTER THE HEALTH OF THE CITY'S INHABITANTS, WHICH IS WHY THE SPECIFIERS FOR THE PROJECT PUT GREAT EMPHASIS ON THE REQUIREMENTS FOR THE HOSPITAL'S HEAT EMITTERS.

New Karolinska Solna is right next to Karolinska Institute, one of the world's leading medical (and sustainable) universities, on the outskirts of the inner city of Sweden's capital. The environmentally-certified hospital covers 330,000 sqm, across twelve floors, with 630 wards and 36 operating theatres. Understandably in a project where hygiene can be a matter of life and death, only equipment that meets the highest standards can be considered. Which is why they chose Purmo Hygiene radiators – 5,000 of them.

SPOTLESS SPECIFICATIONS

Purmo Hygiene radiators are units of sheer performance, with no convection fins, side covers or top grilles. This

facilitates quick access to all parts of the unit for easy and thorough cleaning—an essential part of hospital life. The hospital's main building has been awarded the gold level of the Swedish environmental performance rating system – Miljöbyggnad. This puts it at the very peak of building performance, judged on elements including indoor environment, construction materials and energy efficiency. Built at a cost of SEK 14.5 (€1.5) billion, it is one of the largest Swedish projects in the history of construction company Skanska. Co-funded in partnership with British investment company Innisfree, the facility has also secured the Gold standard from Leadership in Energy and Environmental Design (LEED). This is an

international environmental classification system for global assessment of the building's environmental impact, including energy efficiency. This is a proud achievement for the hospital, as even the energy supply will be green, in the form of self-generated geothermal and other renewable energy.

The energy supply itself is a combination of its own electricity and district heating / cooling, with self-produced energy coming mainly from a heat pump installation. This innovation includes approximately 140 drill holes, approximately 220 metres deep, which store heat from summer to winter and cold from winter to summer.

ENERGY, EFFICIENCY, EXCELLENCE

The facade too has been created with efficiency in mind, with the installation of insulating "smart" windows that let sunlight in year round, but keep out the heat in summer and cold in winter. Other examples of energy-saving services and solutions that reduce operational energy consumption are light and movement sensor-controlled lighting, movement sensor-controlled ventilation, a charging station for electric cars in the parking garage and a waste sorting depot that can hold as many as 32 sorting devices.

New Karolinska Solna was developed with a focus on patient privacy, security and comfort. At the hospital thematic care will be offered, meaning that various

medical experts and specialists work as a team and visit the patient instead of the patient being moved to different departments. And for all the uncertainties involved in hospital care, and the worries that come with being a patient in any hospital, there will be comfort in knowing that the radiators heating the entire building are designed with the patient in mind. Purmo Hygiene, once again, proves to be a valuable component in a very worthy project. ■

FASHION PROMOTION CENTRE

IN THE STYLE OF WŁADYSŁAW STRZEMINSKI'S ART, THE PATRON OF THE
ŁÓDŹ ACADEMY OF FINE ARTS



PROJECT OVERVIEW FASHION PROMOTION CENTRE

Fashion Promotion Centre was opened in 2013. The construction of it took two years and it cost more than 26 million PLN (mostly financed with EU funding). 111 Purmo panel radiators and 12 trench convectors were used in the building.



THE CITY OF ŁÓDŹ IN CENTRAL POLAND IS THE ARCHITYPAL 19TH CENTURY INDUSTRIAL DEVELOPMENT. DURING THAT ERA THIS MULTICULTURAL AND URBAN SETTLEMENT EVOLVED INTO THE CENTRE OF THE POLISH TEXTILE INDUSTRY. ŁÓDŹ IS ALSO KNOWN FOR ITS FILM INDUSTRY – THERE ARE PRODUCTION STUDIOS AND A WELL-KNOWN FILM ACADEMY, A BREEDING GROUND FOR TOP POLISH TALENT IN CINEMATOGRAPHY AND DIRECTING.

The history of Łódź has always been associated with art, fashion and culture. The project, in which Purmo radiators were used, also concerns key areas of the city culture. It is the Fashion Promotion Centre - supported by the initiative of the European Academy of Fine Arts in Łódź and clothing companies. The initiative aims to help young designers to promote themselves in both the Polish and global fashion markets. One of the main aims of the project was the construction of a cultural centre offering a modern and professionally equipped catwalk for models, a perfect place for young designers to organize fashion shows using lighting and multimedia on a global level.

MULTIFUNCTIONAL HALL

Fashion Promotion Centre is located in the city centre, near the Academy of Fine Arts. This modern building was designed by Pas Projekt Archi Studio. The group of educational buildings consists of two separate parts joined by a recessed inner courtyard. The main functions of the buildings are concentrated around a multifunctional auditorium, and a library with a storage space. A centrally located multifunction hall is common to both parts. The ground floor of the building is fully glazed. The simple form of the building is differentiated by an interesting external

envelope. Colourful squares on it attract the eyes; this design corresponds with the artistic style of Władysław Strzemiński, the patron of the Łódź Academy of Fine Arts. Fashion Promotion Centre of Fine Arts and its fashion show hall feature a 24 meter catwalk – the longest catwalk in Europe and the second longest in the world. In addition to the multimedia hall, which seats 440 people, there are dressing rooms, hairdressing and make-up facilities and a professional photo studio. A well-equipped library and exhibition area are also important aspects of the centre. The main aim of the project is its educational activity, so the centre avidly follows its objectives to raise awareness of new technologies and trends in the international fashion industry, among students and graduates of the Academy of Fine Arts.

Fashion Promotion Centre was opened in 2013. The construction of it took two years and it cost more than 26 million PLN (mostly financed with EU funding). 111 Purmo panel radiators and 12 trench convectors were used in the building. The investor put emphasis on quality, aesthetics and performance. Purmo brand heaters provide comfort and are able to meet high technological requirements posed by the use of both advanced multimedia equipment and lighting. ■

“THE MAIN AIM OF
THE PROJECT IS ITS
EDUCATIONAL
ACTIVITY”



KAMPERLAND BEACH RESORT

200 ROCK-SOLID RECREATIONAL HOMES



These attractive beach houses are set to be constructed on beautiful coastal sites from Den Helder in the Netherlands to well over the Belgian border. Real estate developer Arcus Resorts plans to construct no fewer than 200 homes in the near future. The pilot project comprising ten houses in Kamperland has already proved successful. 'The recreational homes were delivered in six prefabricated parts. We already had experience with prefab walls, but for this project we also provided floor

components including connections for ventilation, sanitation and central heating. The prefab elements just needed to be installed and connected to each other. That doesn't only make on-site construction (or disassembling) really quick, but also simple,' explains Vilmar Pouwer of Casco Totaal, which is based in Terneuzen.

INNOVATIVE

Casco Totaal is a subsidiary of De Hoop-Pekso and Logus and enjoys

working in an innovative way. 'It makes us practically independent of price fluctuations and the vagaries of the weather. The very first test home at our production site in Terneuzen showed this way of building to be a success. It means that we've been able to make great strides in a short time. It's important that all the parts and suppliers are on time.'

RADSON, A RELIABLE PARTNER

Marco Voogd of Installatiebedrijf West is also positive about the trial: 'We did all

the installation work, except for the electricity. It's a pleasant way of working that requires open communication. You discover pressure points early on in the process and deal with them together.' The success of the trial makes the prospect of further orders very positive: 'Hopefully we'll get other major orders, perhaps outside the Netherlands and Belgium.' Marco says Radson also kept pace with the fast working method: 'Good collaboration and easy contact with a reliable partner. Opportunities, but also

problems, can always be discussed and the priority is to think and work together. Radson Compact radiators are always in stock and delivered quickly. It's the same with the popular Banga towel radiator which we've already used in two projects.'

COMFORTABLE

The results of the pilot project: ten comfortable six-person recreational homes right on the beach. Pieter van den Dikkenberg, region manager at Radson, said: 'Aside from the preparatory

engineering work, laying the foundations was perhaps the most work involved with this prefab construction job: a house was constructed within a day! The ten beach houses at this great location were completed and ready for occupation in the spring of 2014 and were all immediately rented out.' ■



PROJECT OVERVIEW KAMPERLAND BEACH RESORT

Arcus Resorts is a subsidiary of Roompot Recreatiebeheer BV, which is known for the Roompot Beach Resort that was voted Best Camp Site 2014 by both the Dutch ANWB and the German ADAC automobile associations. Casco Totaal did the engineering work for the ten beach houses in Kamperland, while the installation work was carried out by Installatiebedrijf West. The pilot project was carried out in the run-up to the development of 200 similar homes for which Radson will be supplying a total of 1,200 Compact panel and Banga bathroom radiators.



A WINNING FORMULA FOR SOCHI RACE TRACK

FORMULA 1 IS THE FASTEST, MOST COMPETITIVE MOTOR SPORT IN THE WORLD. RUSSIA JOINED THE RANKS OF COUNTRIES TO HOST THIS MOST PRESTIGIOUS OF RACES. SOCHI - HOME TO THE 2014 WINTER OLYMPICS - NOW ALSO BOASTS A TRACK WITH THE VERY BEST IN EVERYTHING A RACE FAN COULD WISH.



Recognised as one of the world's most technologically advanced tracks, Sochi race track is the result of international cooperation between architects, designers, builders and suppliers, including Stroyproekt-XXI LLC, the largest heating design institute in southern Russia.

With a system as complex and large as this, there was real pressure to find a supplier who could deliver the highest levels of quality, reliability, service and performance. Experts from Stroyproekt-XXI LLC specified Purmo products in their design, due to the large portfolio available, as well as the guarantee of prompt delivery and reliable service from installers Stroyteploservis LLC (Krasnodar), who had already proven their worth on a number of projects for the Olympic facilities. For a period of nearly two years, they worked closely with designers and Purmo specialists to deliver state-of-the-art heating solutions for the site. The expertly designed system controls the temperature of 19 buildings in the racing complex, including a pit stop, medical unit, press centre, recreational buildings for teams and warehouses. In total, the system covers about 40,000 sqm.

WORLD-CLASS DESIGN

The new Sochi race track was designed by world leaders Tilke GmbH & Co. KG, which also created circuits in Bahrain, China, Turkey, Singapore, Valencia, United Arab Emirates and South Korea. As well as Formula One, it will host various other competitions, including track days, demo rides, test drives of new products made by the automotive sector, and special driving courses. As well as the service centres for competitors, there is naturally a focus on the visitors to the circuit, who come from across the world to witness the highest levels of auto sport excitement. Covered multi-level stands and deluxe spectator boxes ensure everyone has an unforgettable and comfortable experience.

PRIDE OF RUSSIA

In total, 476 Purmo Ventil Compact radiators and 184 Purmo Aquilo convectors are now in place. Both products are perfectly aligned with the energy-efficient ethos of the site, delivering energy savings thanks to their high thermal performance when used in low-temperature heating systems. For the team involved in delivering and installing these products, it was not just the prestige of the project that was important. It was also the fact that their work would help thousands of fans to overcome the challenging climate of southern Russia, every day of the year. Once again, they did not disappoint. ■

PROJECT OVERVIEW FORMULA 1 RACE TRACK

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