

What unites us:
watertight solutions.



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Flexibility Begins in the Mind.

In 2008, Gregor Ellegast and Jürgen Werner, his associate at the time, combined their efforts in a management buyout and separated the waterproofing division out of the Continental Group. His vision: to transform the company from a corporate-driven rubber producer into a customer-oriented roofing specialist.

Rather than concentrating on key accounts, he focussed on small and midsize roofing companies as the target group – and was able to double turnover within just five years.

Now he also wants to convince architects of the benefits CARLISLE® has to offer. In his position as CEO of CARLISLE® CM Europe he is responsible for 350 employees and revenues of more than 100 million euros.

For waterproofing basically the same rule applies as for human relationships: on the one hand close bonds offer security, but on the other hand there must be enough flexibility to master life's everyday challenges. At CARLISLE® CM Europe we always maintain our focus on both values. Our consequent adherence to this formula for success has enabled us to become Europe's leading EPDM specialists in the field of waterproofing systems.

Strong bonds and powerful ideas are the basis of CARLISLE® CM Europe. The close relationships among our European companies and brands as well as to our parent company in the USA are based on flat hierarchies and allow a straightforward cooperation. Our individual departments collaborate on an equal footing with our trade partners, craftsmen and architects – this ensures smooth operations. When the bonds between parties are strong, everything else falls into place. Ideas and information flow at a faster rate, energy losses are minimised and the entire system gains stability.

Anyone like us, who wants to play an active part in moulding the market, needs a good portion of flexibility as well. The German market is still dominated by bitumen products and two-layer applications. Our goal is to shift it in the direction of single-ply membranes. Achieving this objective requires the right products. We have them. And it is essential to stay close to the market and its demands. We do this at our CARLISLE® Academy, for example, where we instil enthusiasm for our products in people who actually work in the trade. We know that nothing is more important than simply picking up a material and working with it. Our newly opened technology centre in Hamburg offers tailored training programmes that give craftsmen, architects and planners the opportunity to experience for themselves just how quickly, simply and safely our products can be applied.

CARLISLE® CM Europe and its carefully compiled product portfolio make life a little more comfortable, day in and day out. Put your trust in successful relationships – and in watertight solutions!



Gregor Ellegast

Products alone are not enough to make a company successful. The team – the people who literally stand behind the products – is what matters. We are bound together by our passion for our work and our values, and our customers experience this as well.

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Gregor Ellegast, CEO CARLISLE® CM Europe

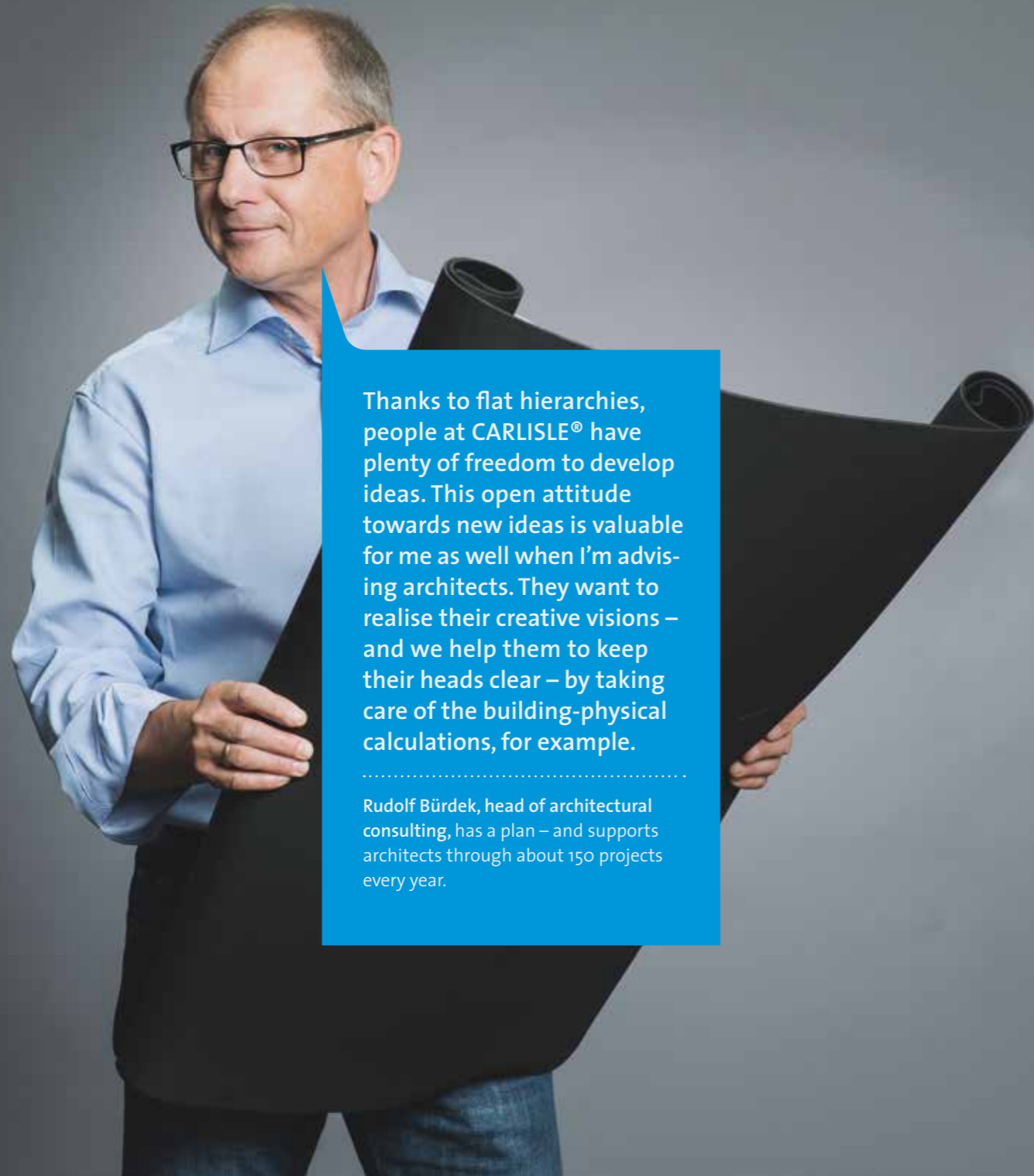


Our Values

Our company has its roots in a management buyout, and this is still apparent today in our open culture and hands-on mentality. Everyone here feels personally responsible; no one simply 'passes the buck'. Thanks to this attitude of personal responsibility, strongly supported by our parent company in the USA, we are able to achieve even ambitious targets.

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Thierry Jacot, sales director CCM Europe, looks optimistically into the future. CCM Europe wants to continue its healthy growth and double revenues once again by 2018.





Thanks to flat hierarchies, people at CARLISLE® have plenty of freedom to develop ideas. This open attitude towards new ideas is valuable for me as well when I'm advising architects. They want to realise their creative visions – and we help them to keep their heads clear – by taking care of the building-physical calculations, for example.

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Rudolf Bürdek, head of architectural consulting, has a plan – and supports architects through about 150 projects every year.

Thanks to our well-founded expertise based on years of experience, we can offer a range of products that are truly well thought out and future-proof. Just because CARLISLE® is the number one in Europe for EPDM does not mean that we are willing to rest on our laurels. Quite the contrary: defending your position at the top of the pack means staying curious and constantly seeking ways to improve.

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Onno Fokkinga, head of R&D in the Netherlands, has a grip on research and development as well as on quality management. Day by day he ensures that hundreds of materials are combined in just the right way to produce the perfect EPDM membrane.






Listening, taking customer requests seriously and turning ideas from the practical side of business into product innovations – that is the formula for success in my view. Anyone who wants to maintain a strong position in the market over the long term and gain new target groups such as architects must listen exactly to what the market is doing – and CARLISLE® is really good at doing just that.

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Julie Kerr, sales manager Scotland, is pleased that the company's management always lends a willing ear to input from the sales team.



Teamwork in my eyes is the key to success because the results of the group are always greater than the sum of its parts. If we want to improve production processes for example, we need the opinion of every team member. When people have this kind of say in what happens, better results are not the only benefit; people also feel motivated and bonds of loyalty are strengthened.

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Henning Pflug, plant manager Hamburg, and his colleagues implemented 20 improvement processes in one year.



When you work for the European market you need to consider plenty of country-specific standards and have a state-of-the-art production technology. Thanks to the lean organisation at CARLISLE®, we constantly receive valuable input from daily practice that enables us to develop new ideas quickly and, what's more, realise them straight away.

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Josef Sochor, head of R&D Germany, is an engineer straight out of the textbook. He develops products not in an ivory tower but for real life on the building site.



Great company values must always begin life on a small scale. Trust, respect and fairness are the foundation for collaboration on our team – spiced with a hefty pinch of humour. Many of the colleagues have known each other for 30 years so no one has to pretend anything. That makes the daily work with one another much less complicated.

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Thomas Gerlach, manager customer service, deploys 'rubber' products to promote team loyalty. In collaboration with Andreas Köllner, Jolanda Peters and Mike Hänssler, he 'processes' six 1 kg boxes of gummy bears every month.



The application of our waterproofing membranes is simple and uncomplicated. Yet every construction site is different and not every corner in life is a right angle, and the workmen laying the material on the site may often have questions. We are more than happy to give them advice and offer a helping hand. Our mission is to offer a waterproof solution for any and all challenges on the roof.

Stefan Weber, application engineer Germany, does not leave workers out in the rain when they have a problem – so he travels around 60,000 km a year, from one construction site to the next.



We at CARLISLE® take our customers' success very personally. We want to make the application of our products as simple as possible and are happy to go that extra mile – be it up onto the roof or out into the garden pond. We listen closely and react quickly. We are simply there whenever we are needed.

Rudi Zegers, application engineer in the Netherlands, still thinks the made-to-measure EPDM solutions are stylish, even after 35 years – he has been a loyal part of the company since 1980.



Customer satisfaction is no witchcraft. At least not when you maintain a friendly communication culture with customers and partners alike. CARLISLE® knows that a successful brand cannot be content with its products alone, but must also build on its personal relationships. And these relationships in a spirit of trust lead to growth.

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Astrid Tumforde, assistant of production and training centre, is the good fairy who makes sure that the organisation of more than 600 training programmes per year at the CARLISLE® Academy functions like magic.



Honestly, I'm more of a coach than a supervisor because everyone on our production team pulls together, and they mostly organise themselves. That's because we genuinely identify with our company. CARLISLE® offers great products of unbeatable quality, invests in state-of-the-art technology and constantly enters new markets – all that is a tremendous motivation.

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Holger Rombowski, shift supervisor production, sees a great future for his young colleagues, even over the long term, because CARLISLE® is on a course of expansion. The company's growth rate is in double digits every year.

Our Brand

Regional Roots, Global Network.

The CARLISLE® Construction Materials Europe Group (CCM Europe) brings the experience and expertise of the European CCM companies under one roof. The group belongs to CARLISLE® Companies Incorporated, a listed corporation headquartered in the USA, and comprises the following companies:

CARLISLE® Construction Materials GmbH
CARLISLE® Construction Materials B.V.
CARLISLE® Construction Materials Ltd.
CARLISLE® Hardcast Europe B.V.

CARLISLE® CM Europe looks back on a long tradition as a leading supplier of EPDM. Many of the European companies began operations in the 19th century as rubber-processing firms and are today recognised specialists for technically high-quality elastomer products for waterproofing flat roofs, façades and ground-reaching building units.

Revenues for the corporate group today amount to more than 100 million euros. Our 350 colleagues do their utmost each and every day to inspire our customers – with the best products and the best consulting service. The strong European umbrella brand and the partnership with the US parent company ensure our sustained success into the future.

- 1 Charlotte, USA
(headquarters of CARLISLE® Companies, Inc.)
- 2 Carlisle, USA
(division CARLISLE® Construction Materials)
- 3 Mansfield, UK
(production & administration)
- 4 Weesp, the Netherlands
(production & administration)
- 5 Kampen, the Netherlands
(production & administration)
- 6 Hamburg, Germany
(European headquarters & production)
- 7 Waltershausen, Germany
(production)
- 8 Baia Mare, Romania
(production)



Strong Companies Grow Together.



1856 The 'Factory for Production of Galoshes and Vulcanized Rubber' is founded in Hamburg-Harburg.

1900



1917 The CARLISLE® Tire and Rubber Company is founded in Carlisle, Pennsylvania. The first products manufactured by the company are inner tubes for bicycle and car tyres.

1922 The company is re-named 'Harburger Gummi-waaren-Fabrik PHOENIX A.G.'. Almost 80 years later, the PHOENIX Dichtungstechnik GmbH (PDT) is founded within the group.

1945 In December of this year, CARLISLE® begins manufacturing inner tubes from synthetic rubber.

1950

1963 The process for industrial manufacture of EPDM is honoured with the Nobel Prize; a short time later, it is also being used at PHOENIX.



1982 The brand RESITRIX® is successfully launched on the market.



1998 CARLISLE® acquires the Dutch company HARDCAST® (headquartered in Weesp).

2001 PHOENIX Dichtungstechnik GmbH (PDT) is founded.

2004 PHOENIX AG is acquired by Continental AG and merges with ContiTech AG in 2007.

2000



2008 The waterproofing division is carved out of the Continental Group in the course of a management buyout. A second production site in Waltershausen begins operations.

1895 Alexander Hertel founds Hertel B.V. in Rotterdam and manufactures natural rubber seals for the shipping industry.



KEY

- GERMANY
- THE NETHERLANDS
- USA

When European companies with a rich tradition stretching back to the 19th century join forces with an experienced global player from the USA, the result can be an extremely successful relationship. As in the case of CARLISLE® CM Europe. Since its founding, the company has been on a path of growth generated by the spirit of a midsize business in conjunction with international prospects.

The European companies have always had a keen eye for new market opportunities. It all began back in 1856 with the manufacture of simple rubber shoes for the Hamburg market. Several spin-offs, name changes and 156 years later, CARLISLE® CM Europe has grown out of PHOENIX Dichtungstechnik GmbH (PDT), HERTALAN® Rubber Products B.V. and HARDCAST®.

1961 The cornerstone of the company Hertel in Kampen is laid with the opening of a new rubber factory.

1965 Hertel develops its first waterproofing membrane made of butyl rubber.



1968 The first HERTALAN® EPDM waterproofing membrane is developed in collaboration with the company DSM.

1970 CARLISLE® Companies Incorporated begins developing and manufacturing rubber waterproofing materials. The division CARLISLE® Construction Materials is born.

2005 A new plant for the production of roof sheets and accessories begins operations in Romania.



2007 A management buy-out turns Hertel Rubber Products into HERTALAN® Rubber Products B.V.

2011 CARLISLE® decides to acquire PDT; the new company is an outstanding fit in the corporation's strategic portfolio for Europe.



2012 CARLISLE® Companies, Inc. acquires HERTALAN® Rubber Products B.V. as part of its European growth strategy.

Our Speciality: Watertight Solutions.

A flat roof has to withstand a lot of strain. Wind, sun, rain and temperature changes cause a lot of material movements and lead to rapid ageing of conventional waterproofing materials. We offer you watertight solutions – with the four strong product brands from CARLISLE® CM Europe.

No wonder that the process for the manufacture of EPDM (ethylene propylene diene monomer rubber) was awarded the Nobel Prize. Owing to its molecular network structure, it has outstanding characteristics: EPDM is resistant to UV radiation and weather, extremely elastic and recyclable. The Süddeutsche Kunststoff-Zentrum (SKZ) has certified a lifetime of more than 50 years for EPDM.

We have developed our EPDM waterproofing systems RESITRIX® and HERTALAN® in response to the special challenges confronting a flat roof. They provide reliable long-lasting protection of superb quality for renovation as well as for new buildings.

Our secret? For more than 50 years we have dedicated all of our experience and passion for EPDM to the development, manufacture and application of durable waterproofing systems. They are perfectly supplemented by our ALUTRIX® vapour barriers and our HARDCAST® sealing products.

Whether a roof or façade, balcony or biogas facility, garden pond or production factory with an area of more than 80,000 m² – there are virtually no limits to the possible applications of our products. We even have the right product for you in our portfolio for green areas of any kind – our root-resistant RESITRIX® waterproofing membranes.

RESITRIX®

Single-Ply – but Multi-Dimensional
RESITRIX® is the only waterproofing membrane that joins the advantages of both high-quality polymer-modified bitumen and the synthetic rubber EPDM in a unique combination of materials. A successful merging of materials indeed – thanks to the polymer bitumen layer on the lower surface, the material can be applied to virtually any surface. Moreover, the membranes can be welded together at any point simply, quickly and safely by using a hot air welding machine or pressure roller without open flame.

Simple Visual Control
A simple visual control determines that the seams have sealed completely. The principle here is child's play: the clearly visible weld bead created during the welding process guarantees that the roof is fully sealed. The Süddeutsche Kunststoff-Zentrum (SKZ) has certified a lifetime of more than 50 years for RESITRIX® – the only product certified for the welding seam as well.



HERTALAN®

The Tailor-Made Suit for Flat Roofs
HERTALAN® EPDM sheeting systems have been standing for certified quality in the sealing of flat roofs for 50 years. The versatile EPDM sheets are produced in a so-called hot bonding process, an especially secure hot vulcanisation process for welding EPDM membranes. The decisive advantage: thanks to the pre-fabricated splicing, only about 5% of the manual welding must be done on the construction site.

Fast and Easy Application
The sheeting system is delivered in a single piece to the construction site; like a tailor-made suit, it has been manufactured to a precise fit. The fast, easy and secure sealing in a single work process is a major advantage, especially when weather conditions are unstable. Repeated drying stages are no longer necessary when an EPDM sheet is used. We can supply HERTALAN® sheets with sizes up to more than 1,000 m².



ALUTRIX®

The High-Performance Vapour Barrier
The self-adhesive ALUTRIX® vapour barriers made of a reinforced aluminium compound can be applied quickly, can immediately be walked on and are highly resistant to penetration. They are especially suitable for use on steel profile decking and roofs subject to extreme stress.



HARDCAST®

Sealing Diversity for Roofs and Façades
HARDCAST® industry tapes and sealants provide a solution for virtually every sealing problem. They do not only protect buildings from water, but also make them impervious to air and vapour – for more energy efficiency and living comfort.



Our Pride

Offering watertight solutions for us also means being 'permeable' to new ideas. We support architects and planners in their visions of modern urban living and the most widely varying climatic zones in the world – and make sure that these visions can be realised without any complications on the construction site.

As a cultural centre the Poppodium Tilburg presents an extravagant black EPDM façade in Chesterfield style.





In the Green Zone

Living roofs create living space. They are not only good to look at but make a major contribution to the environment. EPDM products can be used to create biotopes for animals and plants and restful areas for people on living roofs – for relaxation or for urban gardening.

The spectacular green roof of the library at the Technical University of Delft in the Netherlands (left) was made possible by the application of 1,500 m² of the root-resistant EPDM waterproofing membrane RESITRIX®.

The residential unit 'De Kameleon' in the South-East of Amsterdam (above) significantly raises the quality of the urban area. The roof is covered with 11,000 m² of the root-resistant EPDM waterproofing membrane RESITRIX®.

The roof of the underground car park (below) was covered with 5,000 m² of the root-resistant EPDM waterproofing membrane RESITRIX® before planting.

OUR PRIDE

Living on the Water

Houseboats are a traditional element in Amsterdam's city-scape. With urban residential space in increasingly short supply, 'floating homes' have in recent years become a genuine alternative as residences in other large cities as well.

The elliptical houseboat in Hamburg (below) was made by applying RESITRIX® to the wooden shell before a metal roof was attached from the outside. The pontoon was also sealed with RESITRIX®.

Exclusive design meets nautical romance: the roof of the 'floating home' on the right is waterproof – thanks to the HERTALAN® sheets glued to the wooden shell. HERTALAN® was also used on the pontoon and front.



In Good Shape on Ice and at the Equator

Whether in eternal ice or the burning heat of Africa – our products must repeatedly master enormous challenges all around the world. Thanks to the extreme flexibility of the material and its absolute resistance to sun and weather, they have proven themselves in projects in the most widely diverse climatic zones – in temperatures ranging from -40°C to $+120^{\circ}\text{C}$.



The roof of the Austrian Embassy in Nairobi, Kenya, was refurbished with $1,200\text{ m}^2$ of RESITRIX® (left). Now it is ready to handle the extreme temperature changes and the extraordinarily intense UV radiation.

At the Alpenrose aktiv & sport hotel in Kühtai, Tyrol, $3,300\text{ m}^2$ RESITRIX® and $2,000\text{ m}^2$ ALUTRIX® vapour barriers were applied. The mountain hotel (top left) is located at an altitude of $2,020$ metres.



The skiing station in Bosco Gurin, Switzerland, is located $2,000$ metres above sea level (top right). The roof was sealed using RESITRIX® because of the extreme weather conditions.



RESITRIX® was applied during construction of the German research station 'Gondwana' in the Antarctic (below) in defiance of the extreme cold in the South Pole.





Best Connections – Guaranteed

Good connections are not only important when travelling by train; they are equally vital on roofs. The steel constructions of railway stations require a waterproofing material that can withstand enormous movements without problem. Our EPDM membranes do just that: thanks to their elasticity of more than 500% and extreme resistance to weather conditions.

The Central Station in Hamburg (lower left) serves more than 450,000 travellers and 720 trains for urban and long-distance rail service every day and is one of the most heavily frequented railway stations for passenger traffic in Germany. The roof of this key traffic hub consists of 32,000 m² RESITRIX[®] mechanically attached to a steel framework with a wooden shell. The roof has remained watertight for more than 20 years and follows every

movement of the roof construction thanks to its flexible material structure – no matter how stiff the Hamburg breeze.

At the Arnheim Railway Station (below), 3,000 m² of the root-resistant RESITRIX[®] waterproofing membrane were applied to a construction of 4,000 steel beams. During the new construction of the Rotterdam Railway Station (upper left), all of the gutters between the roof lights were sealed with HERTALAN[®] strips.



More Than Just a Front

EPDM façade systems are not only durably elastic and waterproof; they are of aesthetic interest to architects as well. Their use makes it possible to design a flowing transition from the roof over the façade to the structural sealing of the areas at ground level.

Traditional construction methods were combined with the latest waterproofing technology for the 'Derelict Ruins Hazelwood' (above) – the ruins were turned into a residential unit through the use of HERTALAN®.

The 'HERTALAN® house' in Chemnitz (below) has a living area of about 120 m². The characteristic matt black façade was completed in a construction time of only two months thanks to HERTALAN® EPDM sheets.

The Dutch new building project 'Jong Wonen' (right) combines a façade of HERTALAN® membranes with elements of steel and wood.



OUR PRIDE

Space for Visions

Waterproofing materials made of EPDM provide dependable protection from wind, weather and other external influences. But this innovative material can do much more: its flexibility, durability and simple installation turn it into a source of inspiration – and make construction as a genuine art possible.

The roofer's art and the innovative choice of material were decisive for the office project DUO Groningen (left). In total, 3,700 m² HERTALAN® were applied.

The Market Hall in Rotterdam (above) brings restaurants, workplaces and residences together under a spectacular roof where RESITRIX® membranes and HARDCAST® tapes were used.

The Forest Pavilion at the national horticultural show Schwäbisch Gmünd 2014 consists of a robotically manufactured wooden shell construction. The seams between the individual honeycomb-like elements were sealed with RESITRIX®.



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