SIMONA



GLOBAL THERMOPLASTIC SOLUTIONS



















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WELCOME TO SIMONA.



Focusing on thermoplastic sheets, pipes and fittings, we are the leading premium-class supplier to global growth industries. We serve our end customers around the globe with thermoplastic solutions of superior quality. Our ambition is to offer best-in-class solutions for your applications in the fields of Industry, Infrastructure, Mobility, Aquaculture and Advertising and Building.

Competence Partnership Dependability Care Solution-driven Consulting Sustainability A company like a friend. Service Quality Application-oriented Trust

Competence i di Dependa

Care Solution-driven



Our semi-finished products and piping systems are designed to meet the challenges of the future in a sustainable manner. SIMONA's team of 1,650 people is committed to finding the most effective material for each field of application as well as developing compelling solutions and providing exceptional technical support.

We deliver tangible benefits for the environment and society as a whole, among other things through lightweight products that are capable of replacing heavy materials and can thus help reduce energy consumption and emissions. In addition, SIMONA products are used in environmental protection applications and boast long life cycles.

We aim to become the company with the highest degree of end-consumer orientation in all areas of application relating to our thermoplastic solutions. We want to be an agile partner to industry, thinking in terms of markets and applications and acting in terms of products and material properties.

Our sights are firmly set on generating significant growth. To this end, we intend to expand our business worldwide. We want to build close relationships with the end users of our products in order to better serve their needs. Plastics retailers and wholesalers continue to be key strategic partners for us.

Our aim is to establish a process-oriented organisation in all areas of our business, driven by well-trained and highly qualified employees who embrace a culture of open communication and feedback.

Lighter, stronger, more resistant: we want to keep improving the properties of plastics in an effort to exceed our customers' expectations. We use a wide selection of premium-quality materials to manufacture our products. In addition, we are capable of modifying materials or developing new ones in order to create individual product solutions tailored to your specific requirements.

With production sites in Europe, America and Asia as well as a global network of subsidiaries and trading partners, we are well equipped to offer end-to-end support to our customers at an international level and provide a flexible, fast and reliable service.

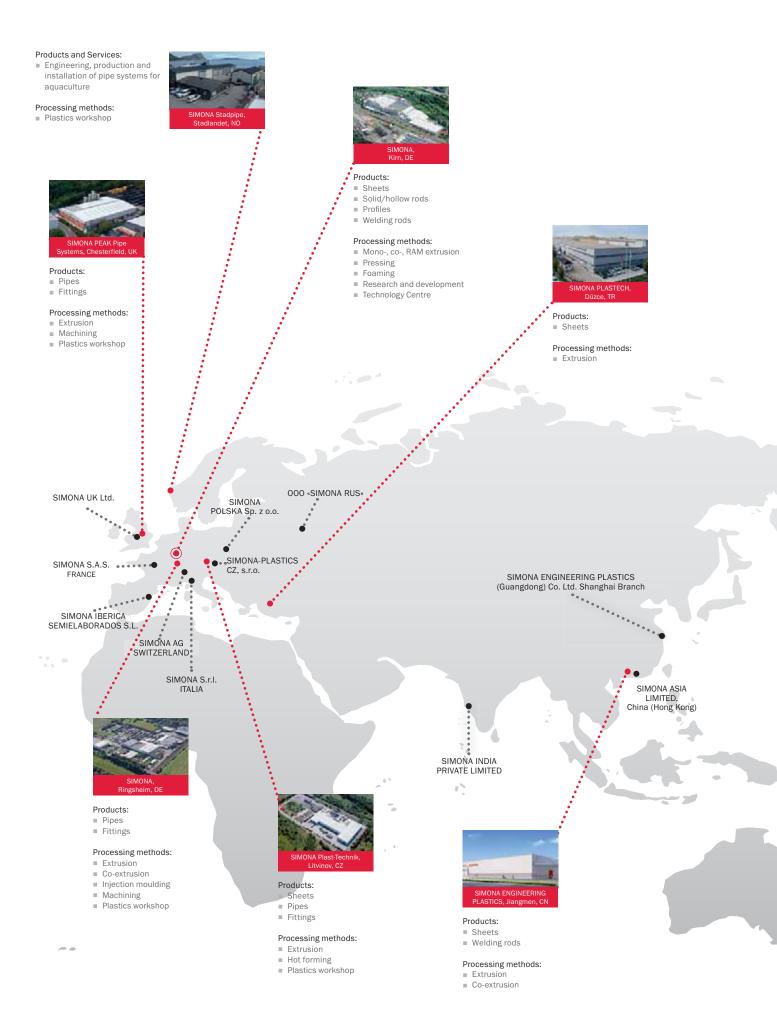
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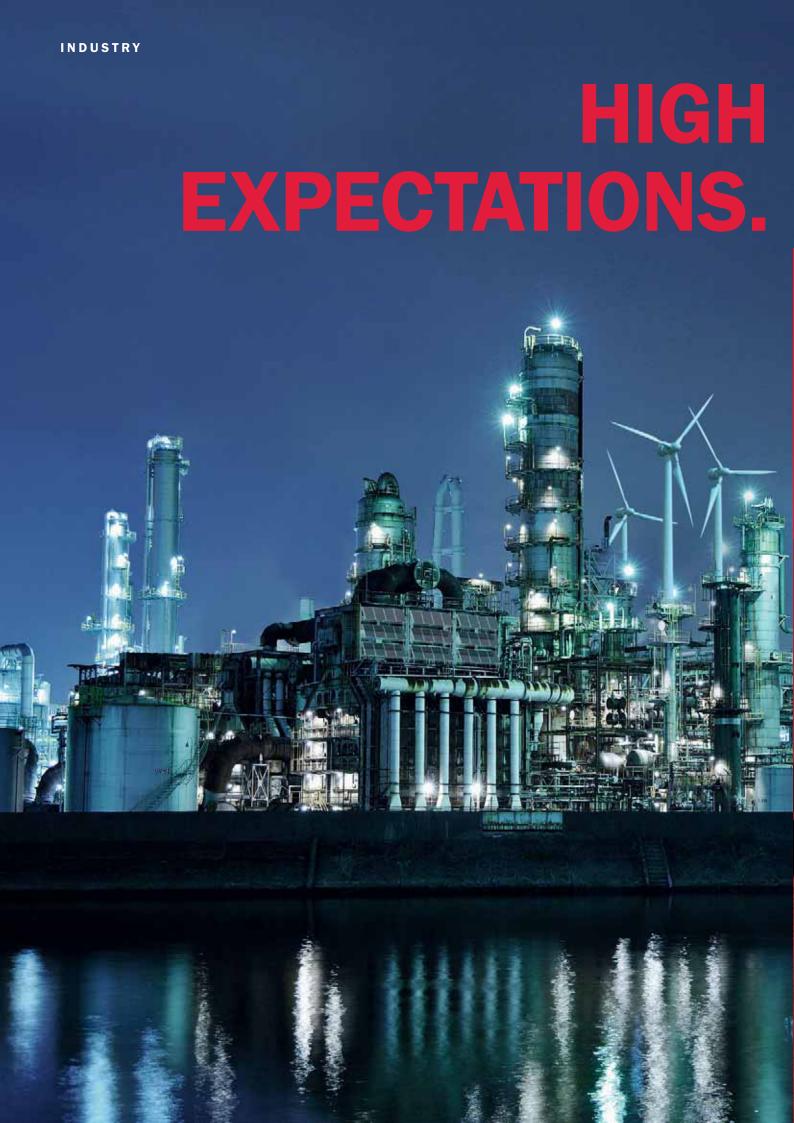
SHAPING THE WORLD

SIMONA AROUND THE GLOBE

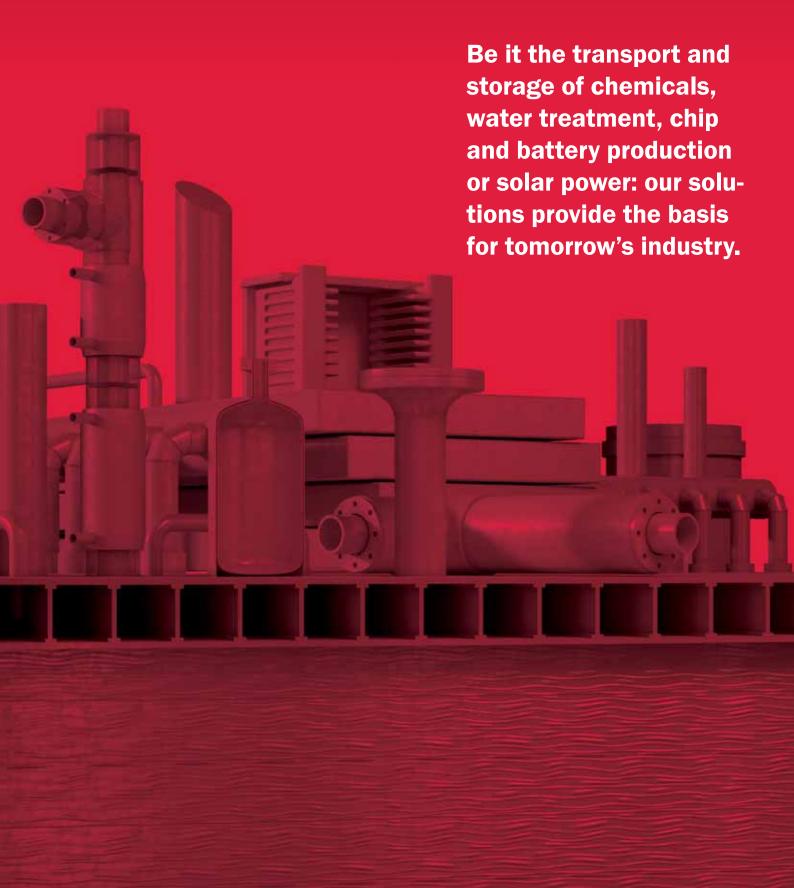


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RELIABLE PROCESSES.



INDUSTRY

01

MARKET SEGMENTS

CPI (Chemical Process Industry) Solutions for chemical tank and equipment engineering, surface processing, such as pickling and electroplating systems, ventilation and exit air ducts, chemical process equipment, scrubbers, reactors

WATER TREATMENT/POOL

Solutions for (process) water and wastewater treatment, seawater desalination, swimming pool technology

SEMICON

Solutions for wet-chemical engineering and construction of factories for manufacturers of semiconductors, solar modules (photovoltaics), battery production

MEDICAL

Solutions for orthopaedics, prosthetics, medical devices

MINING

Solutions for solids transport and bulk materials

PRODUCTS

- Semi-finished products, made of SIMONA® PVC, PE, PP, PP-H AlphaPlus®, PVDF, ECTFE, FEP, PFA
- Pipes and fittings made of SIMONA® PE, PP, PPs, PP-H AlphaPlus®, PVC-Glas, PVDF, ECTFE
- Low flammability solutions, certified according to FM 4910 and DIN 4102 and UL94
- Food-compliant as per EU 10/2011 and FDA
- PE materials resistant to abrasive media such as SIMONA® PE 100 AP-Line and SIMONA® PE 1000 superlining
- Pipes, fittings and semi-finished products made of SIMONA® PE, PP-H AlphaPlus® and PVDF for equipping water treatment units, tanks and metering systems
- SIMOPOOL semi-finished products for the construction of pool systems made of SIMONA® PVC and PP-C, UV-stabilised
- Pipes and fittings for reverse osmosis technology in seawater desalination plants and waterworks
- SIMOLIFE product range for the manufacture of prostheses and orthoses made of PP, PETG, PE, EVA, certified in accordance with FDA and DIN EN ISO 10993-5/-10, physiologically safe according to BfR





PROCESSING METHODS

- Sheet extrusion (also co-extrusion with up to 6 layers)
- · Pipe extrusion
- Injection-molding
- Extrusion of solid and hollow rods as well as welding rods
- Inline sheet-backing process
- Pressing

BENEFITS

- · Technical know-how
- Technical Service Centre with demonstrable engineering expertise
- Comprehensive product portfolio
- International production sites and global distribution network
- First-class process engineering and consistently high quality in production
- Extensive knowledge of the markets, applications and requirements of our customers





SIMONA is the partner of choice for solutions involving semi-finished products, pipes, fittings and assemblies spanning the entire supply chain of industrial applications. We can draw on a pedigree of excellence that includes many decades of experience and expertise in all segments of the market. First-class process engineering and demonstrable expertise relating to formulations provide a solid foundation when it comes to meeting the stringent requirements of our customers' applications, most of which are safety-critical and environmentally relevant.

Our experts in the individual market segments have an in-depth technical understanding of the specific fields of application and can thus engage with customers, users and planners on a peer-to-peer level. Complemented by the customer-centric support provided by our regional sales professionals and the advis-ory expertise of our engineers at the Technical Service Centre, we blend industry know-how, customer proximity and consulting competence to create tangible synergies.

Along our customers' supply chains, we work closely with all relevant target groups – from general contractors and project developers to end customers and/or operators. In this context, our trading partners in the engineering plastics sector repres-ent an important pillar of our business model.

Together with our trading partners, we identify and develop opportunities in an effort to expand our customer base.

In close cooperation with the Technical Service Centre and Research & Development, application know-how is applied effectively to engineer innovative, technically superior products and to manufacture them in consistently high quality. SIMONA's global positioning is another key factor in our success. Customer and market proximity brings significant advantages, especially in the water treatment and semiconductor industries. SIMONA takes an all-embracing approach to market presence: through global production facilities, through a finely meshed sales network in many countries and through market specialists in EMEA, the Americas and Asia-Pacific. Our international support capabilities are widely acknowledged and appreciated, particularly by customers operating global production sites within the chemical process industry.

In this context, we identify and leverage synergies between the SIMONA business lines in order to cultivate upstream and downstream projects together with our customers and partners. Infrastructure projects, for example, often result in construction work on new factory buildings or extensions and thus also the installation of machinery in the process industry.



Intelligent pipe systems made of PE, PP, PVDF for process water and wastewater treatment

MARKET SEGMENTS IN DETAIL



SIMOPOOL is the perfect choice for tailor-made swimming pool design – both indoor and outdoor.

02

CPI (Chemical Process Industry)/Mining

Industrial processes often require materials with a high degree of chemical resistance and corrosion protection as well as a long service life. This applies in particular to piping as well as tank and equipment engineering, one of SIMONA's core areas of expertise. Whether cathodic dip tanks or surface processing in the form of pickling, electroplating and zinc-plating: our semi-finished products, pipes and fittings are predestined for use in wet-chemical environments. With a wide range of thermoplastic materials and outstanding technical advice, we are an acknow-ledged partner to the chemical process industry. Our chemically resistant, premiumquality thermoplastic products help to extend the service life and, above all, safety and reliability of installations.

We also offer compelling solutions for the mining industry, e.g. in the form of our AP-Line product family, which is capable of handling highly abrasive bulk materials.

Water Treatment/Pool

In this market segment, we offer smart end-to-end pipe systems made of PE, PP, PVDF for process water and wastewater treatment in the semiconductor, chemical process, battery production and food technology industries as well as in many other areas of application. Our products easily withstand highly corrosive liquids such as acids and alkalis and are acknowledged for the benefits they deliver in respect of maintenance-free operation. Our portfolio of pipes and fittings also includes a wide range of products and assemblies for use in the area of seawater desalination.

Our SIMOPOOL line covers an extensive range of semi-finished products for pool installations. Be it an exercise pool or a garden oasis, SIMOPOOL is the perfect choice for tailor-made swimming pool design – both indoor and outdoor. SIMOPOOL products are UV and weather resistant and resistant to pool water. They also offer high temperature resilience

and a good level of toughness. When developing the SIMOPOOL products, special emphasis was placed on efficient workability. As a result, SIMOPOOL sheets can be welded together with minimum effort – the perfect solution even for the most intricate pool designs. SIMOPOOL sheets are particularly durable and 100% recyclable. They are designed to prevent osmosis damage, thus extending the life of swimming pools. In addition, no environmentally harmful plasticisers are used in the manufacture of our SIMOPOOL products.

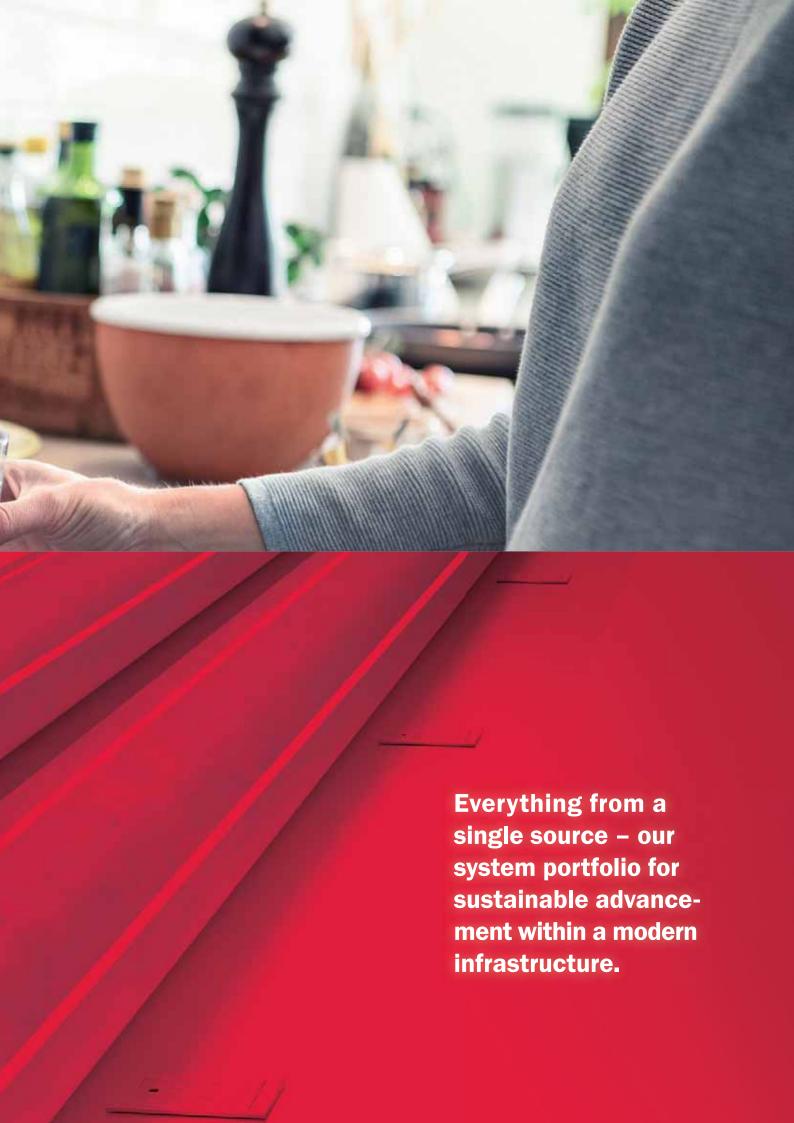
Semicon

SIMONA offers a wide range of products for the semiconductor industry. This includes sheets, rods, welding rods, pipes and fittings made of various materials – a well-established portfolio for all wet-process applications. Among the unique selling propositions of our products are a high resistance to acids, bases, solv-ents and oxidising agents as part of wet processes and a broad temperature application range. What is more, our range includes products that meet the provisions for flame retardancy set out in FM 4910 and UL94 V-O. Typical applications for SIMONA Semicon products include the construction of storage and process tanks for process media, fully and semi-automated wet benches for the manufacture of semiconductors, wafer transport components as well as cabinets and trolleys.

Medical

SIMOLIFE is a comprehensive product range developed specifically for use in the field of prosthetics and orthotics. The property profiles of the various plastics deployed in this area are designed to meet not only the individual needs of patients but also the processing capabilities of orthopaedic technicians. SIMOLIFE products are light in weight and skin-friendly, in addition to ensuring long-lasting, functional use. Thanks to the efficient processability and high dimensional stability of the sheet materials, precision orthosis and prosthesis parts can be individually adapted to the patient's anatomy.





INFRASTRUCTURE

01

MARKET SEGMENTS

WATER AND GAS MANAGEMENT	Standardised system solutions for media transport in established infrastructure applications, e.g. utilities
REHABILITATION	System solutions for trenchless and environmentally-friendly installation methods in water and wastewater management
CABLE PROTECTION	System solutions for the protection of sensitive data and power cable installations as well as cable-stayed bridge structures
DRAINAGE	Solutions for the drainage of traffic routes and landfill sites
DISTRICT HEATING	Protective-jacket pipes for local and district heating networks (thermal energy transfer)

PROCESSING METHODS

- Pipe extrusion: single- and multilayer SIMONA pipes made of PE 100/PE 100 RC in standard lengths of 6 to 30 m and diameters of up to 1,200 mm - Pressure pipes in SDR classes 41-7.4 - SIMONA® PP HM pipes with standard and custom dimensions - Pipe combinations for special applications in water protection zones
- Injection moulding: extensive product range of injection-moulded fittings made of SIMONA® PE and PP in different pressure classes and diameters of up to 900 mm
- Plastics workshop: realisation of individual designs and assemblies that can
 also be delivered prefabricated to the
 installation site as well as individual fittings up to a diameter of 1,200 mm



PRODUCGTS

- Drinking water pipe systems
- · Sewage pipe systems
- Gas pipes and fittings
- Cable protection pipes for high-voltage cables
- Drainage pipes
- · Plastic jacket pipes
- · Buried protective sheets and mesh matting
- · Bridge protection pipes and fittings
- Rehabilitation pipe systems made of PE and PP
- ClearDuct[™] connection solution
- FM extinguishing water pipe systems
- Leakage-monitored single and double-containment pipe systems
- Plastic shaft solutions
- Ovoid pipes



BENEFITS

- Superior application orientation with regard to products and installation methods
- Comprehensive project support from planning to structural calculations and/or training to on-site consultation
- · High level of technical expertise in all phases of project development, especially project planning
- · System provider for standard and various niche applications
- · Wide range of digital products and services
- Unique range of pipes, fittings and complementary services
- Extensive expertise relating to technical application
- System know-how advice on pipes, fittings and customised solutions
- Production with high-quality raw materials that meet all the necessary approvals for the respective area of application



Comprehensive product portfolio of pipes and fittings for buried supply and disposal lines.

FULL-LINE SUPPLIER OF INFRASTRUCTURE SOLUTIONS

Infrastructure is the backbone of our modern life and is crucial for the transport of goods, energy, data, drinking water and wastewater. Without adequate infrastructure, the impending shift to renewable energy sources is unthinkable. The potential is huge and demand for safe piping systems is increasing.

Our goal is for SIMONA to become the brand that prospective customers think of first when they are planning and designing infrastructure piping systems. We are the one-stop shop for defined standard applications as well as customer- and project-specific system solutions. As well as product solutions, we also provide our technical expertise and long-standing experience to support engineers in implementing their projects.

Thanks to our solid application and project expertise, we strengthen the market position of our partners in the retail segment and construction industry. While we focus on system solutions, we can also serve niche applications and respond flexibly to individual requirements.

What sets us apart is the extensive technical support we provide with the design, calculation and type of pipe installation. The basic elements of this support consist of a top-class technical service in each project phase, intelligent and cost-effective product ranges, support for end users with product processing on site, and a comprehensive after-sales service.

Through the integration of SIMONA PEAK Pipe Systems in the UK, we are continuing to expand our portfolio and are reinforcing our status in Europe as a highly capable partner to the infrastructure construction sector.

Our range of products and advisory services is being expanded to include digital services and products. These include material and equipment selection, intuitive, IT-supported project enquiries for structural calculations, e-learning options, and numerous digital tools for users, e.g. retrieval of product data and installation advice via QR codes on products.

Infrastructure projects are catalysts

Often, major infrastructure projects are followed by the emergence of industrial parks that use the products from our Industry and Advertising & Building business lines. And the traffic routes for which we supply drainage pipe systems are designed for increased demand for trains, for whose rail cars, in turn, our Mobility business line supplies sheets for the interior fitout.



MARKET SEGMENTS IN DETAIL

SIMONA protective-jacket pipes with leakage monitoring

02

Water and Gas Management

The largest segment of our Infrastructure business line comprises standard solutions for the supply and disposal of media, generally water and gas. Our portfolio in this segment consists of the complete product range of pipes, standardised fittings and project and custom solutions from our in-house plastics workshop. Innovations, new developments and portfolio additions to complement systems are particularly intensive in this segment, because SIMONA is growing with the challenges: we find the ideal solution for new applications. Especially against the background of the energy transition, we offer ecological, sustainable solutions for infrastructure projects – because in their specific areas of application, SIMONA products are particularly durable, robust and tailored individually to the respective requirements.

Rehabilitation

Rehabilitation, especially in trenchless construction processes, substantially reduces ${\rm CO_2}$ emissions and makes a huge contribution to climate protection. For example, a comparative calculation by the GSTT (German Society for Trenchless Technology e.V.) for what is known as the TIP (tight in pipe) process in the closed construction method has calculated an almost 30 t lower ${\rm CO_2}$ emission thanks to the machine technology used, compared with pipe rehabilitation using the open trench method. This is equivalent to a reduction of more than 90%. The various methods for trenchless pipe laying therefore actively contribute to more sustainability in the construction industry. As a system vendor for this process variant, we offer customised solutions and comprehensive expert advice. Moreover, we offer the most extensive range of thermoplastic pipe systems in the entire sector.

District Heating

In this segment we have made a name for ourselves as a component supplier for major system manufacturers. The replacement of existing district heating networks, general network expansion and innovative cooling and heating systems are continuing to drive progress in this segment – and our company is taking a leading role. In particular, the specific, outstanding material properties of our plastic pipes make them ideal for use in sustainable district heating pipelines within the context of the energy transition.

Drainage

In this segment, two areas of application are crucial: landfill technology and traffic route construction. Our drainage pipes and fittings are specially approved for landfill sites to ensure safe and environmentally compatible operations. Leachate and gases need to be safely removed via various systems and then processed. Drains used in traffic route construction are also subject to quality assurance standards, like the Deutsche Bahn standard for track construction. In this context, our products ensure safe and permanently stable traffic routes. Drainage systems to remove ground and surface water have a significant impact on the quality and safety of roads and rail networks.

Cable Protection

Our plastic pipes are making an important contribution to the energy transition. After all, even regenerative energy needs to be distributed and, in some cases, transported over large distances to where it is needed. To ensure the safe transport of energy and data, SIMONA offers an extensive system of pipes, fittings and sheets for the permanent protection of buried power cables. They protect from moisture, soil or traffic loads, and prevent retrospective damage, for example due to excavation work. Power cables can also be replaced efficiently thanks to high-quality cable protection pipes. Another area of application consists of cable-stayed bridge systems. UV-stabilised protective sheathing for bridge cables in special colours provides lasting protection against corrosion and reduces maintenance costs, e.g. due to permanent colouring.





MOBILITY

01

MARKET SEGMENTS

AUTOMOTIVE

Solutions for the production of vehicle tanks with recycled content, door sill trims, etc. for passenger cars

RAIL

Solutions for flame-retardant interior rail vehicle trims, e.g. used in the production of seats, armrests, wall cladding, window panels, partitions, ceiling panels and shelves

OTHER MOBILITY

Solutions for the production of tanks for alternative drive systems used in trucks, buses, etc. and interior trims for caravans, fire engines, etc.

AVIATION

Solutions from an extensive range of semi-finished products with a wide variety of colours and designs for aircraft interiors



PROCESSING METHODS

- · Pipe and sheet extrusion
- Backing
- Press laminating
- Calendering
- Injection moulding
- Milling
- Welding

PRODUCTS

- Multilayer sheets PE-MEHR
- Circular blanks made from PE-MEHR sheets
- SIMORAIL Product range for railway interior PC, PP flame retardant
- SIMONA® Coplast
- SIMONA® PP/PE products primarily sheets (standard products HD-PE, PE 100, PP-H and PP-EPDM)
- SIMONA® PVDF

- SIMONA Boltaron (USA) 9000 and 4000 Series sheets for aircraft interiors
- ABS, TPO and acrylic sheets from SIMONA PMC (USA) for interior and exterior applications in recreational vehicles and mobile homes
- BOATBOARD PE-HD sheets from SIMONA AMERICA Industries (USA) and TPO, vinyl/ABS acrylic sheets from SIMONA PMC (USA) for boatbuilding applications
- Specialist solutions from SIMONA PMC (USA), such as PremierCap and ONTEX

BENEFITS

- · Recyclability (circular economy)
- . Homogeneous colouring (no painting necessary)
- · Weight-saving
- · Complex geometries due to good thermoformability
- UV stabiliser in basic design
- Customisable (colour/surface)
- Extensive technical know-how
- Comprehensive product portfolio
- International production sites and global distribution network
- Extensive knowledge of customer markets, applications and requirements
- Modern sales tools: virtual showroom for railway interior applications

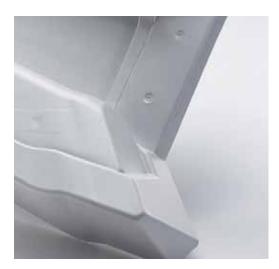






Customised components to reduce the carbon footprint

The Mobility business line is synonymous with efficient, sustainable solutions tailored to individual requirements – around the globe. Maintaining a close dialogue with customers, our experts have a proven track record when it comes to improving the property profiles of plastics for critical applications. They meet the exacting standards of designers in the field of aircraft construction as well as being geared to the price- and time-driven market for automotive applications. Whether air, rail or road: we are committed to maintaining a highly flexible approach in pursuit of your goals.



Complex component structures thanks to excellent thermoforming properties

Attention to detail is an essential prerequisite for successful solutions in the mobility sector. In the case of aircraft interiors, for instance, the focus is on compliance with strict fire regulations, superior workability, efficient cleaning and, to an increasing extent, the use of recycled materials. Other key aspects include diversity of design and the ability to work with small batch sizes. SIMONA can draw on many decades of experience when it comes to re-integrating material residues into the manufacturing process as recycled regrind, e.g. in the production of sheets used in the design of vehicle fuel tanks. Working in close collaboration with renowned designer Gary Doy, SIMONA Boltaron has developed a recyclatebased material for the construction of aircraft seatbacks -9865 TERREFORM™. At the end of the product life cycle, the seatback can also be recycled. Individual examples that capture the essence of our Mobility business line: a portfolio that has every angle covered with regard to functionality, aesthetics and fire protection.



MARKET SEGMENTS IN DETAIL

02

Automotive

With production sites in Europe, North America and Asia, SIMONA ensures consistent, high-end quality with regard to its global automotive business. We are a go-to partner for specialist solutions, e.g. in the construction of vehicle fuel tanks, door sill trims, engine hoods made of thermoplastic materials and much more besides. In this market segment, we can also draw on our engineering expertise when it comes to alternative tank systems for sustainable drive systems, such as e-mobility and hydrogen.

Rail

In SIMORAIL, we have developed a product range of innovative, lightweight and recyclable thermoplastics for use in interior finish applications within the rail industry. These products meet new, more stringent fire standards, such as DIN EN 45545 as well as the US standard NFP 130. What is more, they provide the basis for customised shapes and colours, in addition to offering the benefit of superior thermoformability. Their great advantage over conventional materials is their recyclability.

The Mobility business line has also been working on a special product variant that boasts improved chemical resistance and anti-graffiti properties thanks to a PVDF protective layer – SIMORAIL AG. A high-performance film ensures UV resistance for outdoor use.

Other Mobility

In this market segment, the focus is on solutions for special applications, such as alternative drive systems for trucks and buses, interior trims for caravans or equipment for fire engines.

Aviation

The interior design of aeroplanes has become one of the most important competitive factors in recent years. Future R&D activities will focus on cabin design, seating comfort and sustainable flying. SIMONA Boltaron offers an unlimited range of colours and textures for interior applications, underpinned by best-in-class technical expertise within the area of production. It goes without saying that SIMONA Boltaron products meet the strict certification requirements for use in aircraft. They combine the benefits of excellent thermoformability and high impact strength. In addition, SIMONA Boltaron offers an extensive range of designs.



Partner for specialist solutions in the automotive industry





AQUACULTURE

SINGLE-SOURCE SOLUTIONS

CONCEPTION, PLANNING AND PRODUCT DEVELOPMENT

- Planning of required pipe systems
- Production of customised fittings and complete components
- Installation service or installation instruction in close alignment with customer requirements
- 3D visualisations using cutting-edge tools
- Documentation of the hydraulic, thermal and mechanical calculation of pipes, fittings and pipe systems
- High level of expertise and know-how in the development of pipe systems for use in land-based aquaculture facilities

PRODUCTION

- State-of-the-art production assets
- In-house plastics workshops
- Focus on prefabricated pipe modules and specialist products
- Customised products tailor-made for the respective project

INSTALLATION

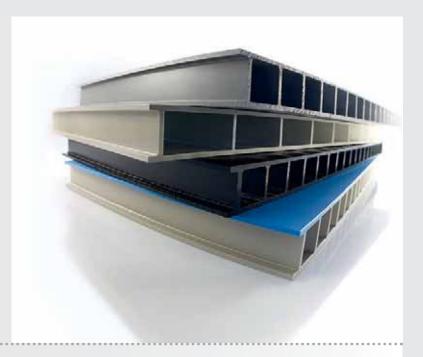
 Installation process supported by experienced project managers every step of the way

SERVICES

- Installation instruction
- Approval
- Inspection

PROCESSING METHODS

- Plastics workshop with all standard welding processes as well as realisation of individual designs and assemblies that can also be delivered prefabricated to the installation site
- Individual fittings up to a diameter of 1,200 mm
- Standard/customised fittings, DIN EN 12201-3 compliant
- Welded constructions according to NS 416-1:2008



PRODUCTS

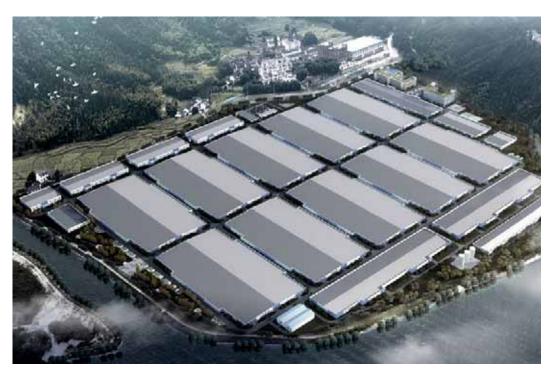


- Standard products made of PE 100
- · Customised products
- · Products specially developed for land-based aquaculture
- Segment-welded fittings
- Level pipes
- Pipeline strainers
- CIP tanks
- Bellmouths
- · Outlet funnels for fish
- Fish tank cleaner
- Mortality boxes
- · Rotatable pipe joints
- Manifolds
- Vacuum funnels

BENEFITS

- Extensive know-how in project development and management, including the installation of fish farm piping systems
- High degree of application orientation with regard to products and installation methods
- Comprehensive project support from planning to hydrostatic calculations and/or training to on-site consultation
- High level of technical expertise in all phases of project development, especially project planning
- Supplier of system and customised solutions
- Decades of industry experience
- Leading supplier of plant technology in the aquaculture sector





Eel aquaculture farm in Fujiang, China

Feeding the growing world population is a major challenge for the future. In this context, aquaculture can play a key role by providing a healthy and sustainable source of protein. Already, it accounts for more than 50 per cent of the global fish catch. Due to the overfishing of the world's oceans, land-based fish farming in aquaculture systems is becoming particularly important.

In our Aquaculture business line, we design our products so that they help meet the UN's sustainable development goals. We combine extensive expertise in project development, product management and the installation of fish farm equipment with the benefits provided by a global production and sales network.

Our centre of expertise is SIMONA Stadpipe in Norway, which has acquired decades of experience in the aquaculture industry from its realisation of countless projects. Increasingly, the company has been concentrating on a trending technology, the use of land-based recirculating aquaculture systems (RAS). SIMONA Stadpipe is the first port of call when it comes to pipe systems for equipping fish farms – from the planning phase right through to the installation of the finished pipe systems on site.

Aquaculture is a global growth market that SIMONA Stadpipe is well placed to serve, working closely with local sales and production sites and SIMONA's business partners. Our customers benefit from our extensive expertise in aquaculture and dedicated support on the ground. We are on hand to meet requirements as they emerge.

The special product portfolio of SIMONA Stadpipe combined with the extensive SIMONA range therefore offers a wide selection of standard products and customised pipes, fittings and sheets for equipping fish farms. In this market, the crucial factor for success is comprehensive expertise across the entire value chain. We have an in-depth understanding of the processes involved in building new fish farms from scratch or upgrading existing facilities and can therefore offer exactly the right products.

By nurturing our contacts with globally operating OEMs, the specialists from our Aquaculture business line know exactly where and when fish farms are set to be built or upgraded. They are familiar with the decision-makers involved and can supply specifications for our products at an early stage. Our valued business partners play a crucial role in this process, as both parties benefit from this partnership by exchanging information and collaborating to tap into customer potential.



> 15,000 TONNES

The plant in China is capable of producing more than 15,000 tonnes of eel per year. SIMONA supplies black PE sheets for the breeding tanks and PP-H products for aeration and ventilation systems.

RAS

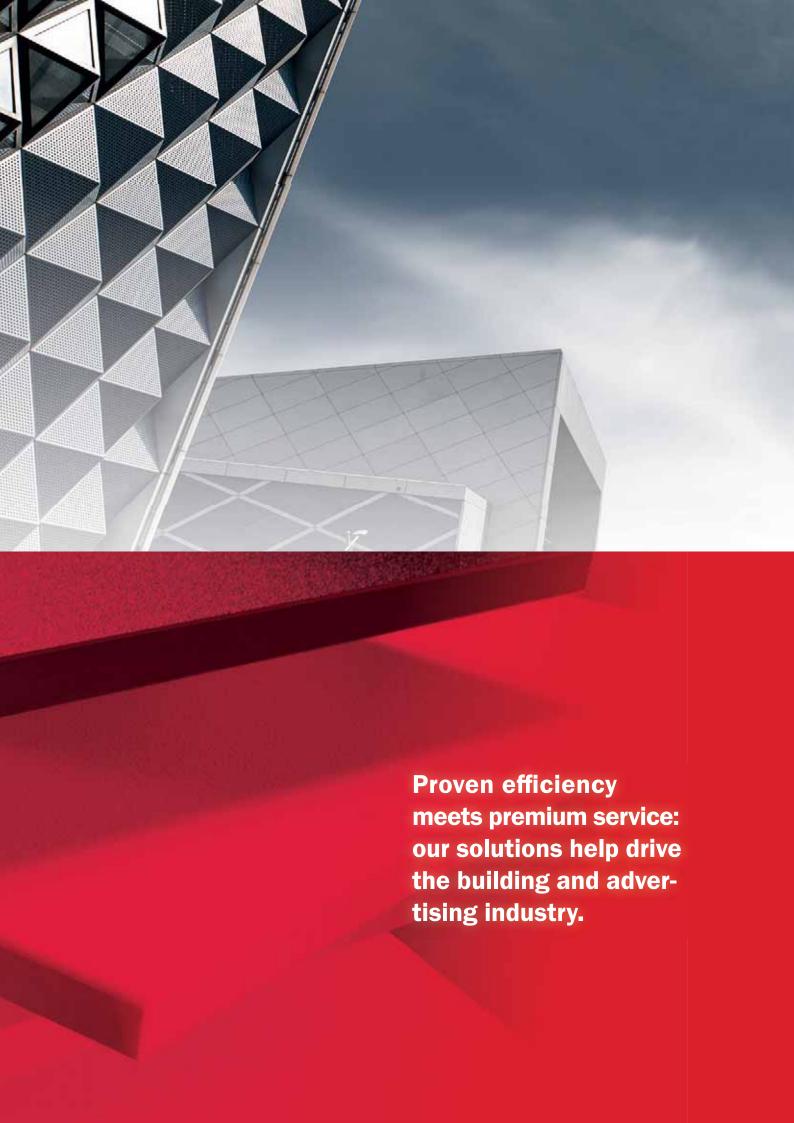
These land-based systems are able to minimise fresh water consumption by more than 90 % by reusing water with the help of filtration, water treatment and oxygenation.

3 TO 8 METRES

is the diameter of the tanks used to breed the eels.

33





ADVERTISING & BUILDING

01

MARKET SEGMENTS

ADVERTISING

Solutions for digital printing applications, exhibition design and displays

BUILDING

Solutions for facades, wall and floor applications as well as front doors



PROCESSING METHODS

- Extrusion
- Co-extrusion
- Foaming

PRODUCTS

- PVC free-foam sheets and SIMONA® CELPLAST® sheets produced by means of the semi-Celuka method
- Co-extruded sheets SIMONA®
 COPLAST-AS and ASX
- SIMOLUX, shatterproof and transparent copolyester sheet made of PETG
- Customised PVC rigid sheets



BENEFITS



- Product portfolio based on proprietary formulations in compliance with relevant standards and approval requirements
- Customised solutions using PVC and alternative materials
- Individual modifications and variants according to customer requirements
- Highly experienced, specialised team
- Market-related technical expertise
- Cost-effective and customer-focused products

Competitive solutions for the advertising and building sector

Speed, availability and value for money are key aspects when it comes to meeting customer requirements within the Advertising & Building business line. Committed to excellence in serving this market, SIMONA offers an extensive product range tailored to specific applications, together with reliable processes, consistent quality and a highly efficient supply and delivery service.

Based in Turkey, our centre of expertise for PVC foam sheets boasts state-of-the-art production capabilities and demonstrable know-how in process engineering. A powerful network of business partners covers everything from the supply of raw materials, the in-house development of formulations and high-quality compounding through to sales operations managed by our own sites and by valued dealers throughout Europe.

Building on an organisational structure that brings together specialised, experienced and focused teams, we are the perfect sparring partner for existing and prospective customers. Market-specific technical expertise is essential when it comes to identifying trends and implementing targeted solutions in response. This knowledge is used to develop cost-effective, customer-driven products rather than 'over-engineered' solutions.

New highlights in the commodity market

SIMONA's track record as an active partner to the advertising and building industry spans many decades. Our well-known and proven SIMOPOR product family as well as our unique COPLAST line with designs that include a variety of high-quality foam cores and outer skins bear testimony to our long-standing experience in this field. Based on this expertise, we are keen to set new benchmarks within an increasingly standardised market. Our approach: efficient structures, a small team of specialists and lean production.

Drawing on the capabilities of our specialised production facility in Turkey as well as the extensive know-how of our team and advanced extrusion technology, we have created a highly streamlined and thoroughly efficient product offering. This is complemented by a compelling range of services, including professional support in the field of applications engineering, targeted customer training and efficient logistics provided by SIMONA and its partners.

We believe in the spirit of partnership – listening to each other, learning from each other and thus continuously improving and expanding our product and service offering. Embracing a collaborative approach, we want to identify opportunities and cultivate the various segments in a manner that is profitable.



SIMONA PLASTECH, Turkey



MARKET SEGMENTS IN DETAIL

02

Advertising

Within this market segment, SIMONA offers a comprehensive range of sheets for digital printing, displays, exhibition design and hygiene protection. In the field of digital printing, in particular, being in tune with market trends is essential. SIMONA can draw on the technical expertise required within this segment. Our specialists are proficient in the latest technologies deployed by printer manufacturers. They know how the sheets to be printed react to such methods and which surface properties are required to achieve the best possible printing results.

Building

The main focus within the market segment covering the construction industry is on semi-finished plastic products made of PVC. Due to its excellent workability, PVC is a proven material for numerous applications, such as wall and facade cladding as well as door elements. Increasingly, we are also suppllying PVC-free solutions. SIMOFLOOR is a moisture-resistant product developed by SIMONA for the production of floor coverings. It serves as a carrier sheet onto which the vinyl surface is applied in the case of laminate flooring. The product line featuring the co-extruded PVC foam sheets known as SIMONA® COPLAST-AS combines the benefits of high rigidity with exceptional surface appearance. Thanks to its stability in respect of UV and weather exposure, COPLAST-AS is also the ideal product for outdoor use. Featuring a core of internally recycled material, COPLAST-ASX meets current sustainability requirements.

Product highlight: SIMONA® CELPLAST

SIMONA® CELPLAST® is manufactured by means of a semi-Celuka method. It is characterised, among other things, by a high level of quality thanks to a consistent and even flow. This, for example, facilitates bolting in the vicinity of edges due to the high extraction forces involved. Cell formation in the molten material is prevented on the surfaces by means of immediate cooling, a process that helps to create a compact, silky-smooth and perfectly even surface.

SIMONA® CELPLAST® combines the benefits of low weight and stability, which makes it the perfect choice for building and construction applications. Not only are the sheets easy to process, they are also suitable for use in composites due to their smooth surface finish. Another key benefit is the high level of flatness: sheets produced by means of the semi-Celuka method generally feature a very narrow tolerance of thickness across the entire width.





SUSTAINABILITY



WE TAKE RESPONSIBILITY

SIMONA has been around for over 165 years. Without engaging in sustainable business management and taking responsibility for the people and communities at our company's sites, we would undoubtedly have disappeared a long time ago. In this sense, SIMONA has always been sustainable.

However, in a world where we are consuming more resources than we have at our disposal and we are all feeling the impact of climate change, the term 'sustainability' has taken on an even greater and more all-encompassing meaning. We have to be conscious of what our actions are doing to the climate, to living conditions and to the well-being of our employees and society and make the necessary improvements. Besides being increasingly obliged to do so by law, we have also made this goal an integral, long-term part of our corporate strategy.

As well as a challenge, however, this is also an opportunity – for the world, for the climate, for society and for ourselves. As far as sustainability is concerned, SIMONA has a great many jobs to do. This includes stepping up our efforts to raise awareness of the benefits that our durable plastic products can bring to demanding applications. Our products are helping to solve some of the challenges facing society such as creating climate-friendly mobility, supplying clean drinking

water, draining and cleaning wastewater safely and reliably, and even embracing digitalisation. An energy transition will simply not be possible without plastic, because it is the go-to material in many different areas of application – from water supply and disposal through to power distribution.

Another task facing not only SIMONA but the whole industry is how to place plastics manufacturing on a more environmentally sound footing. We are in the midst of a major transformation in this regard. This is because there are already some highly promising approaches out there for making plastics manufacturing more sustainable, such as by using bio-based raw materials or recycled materials. One example is a sustainable product line made from environmentally friendly plastic, underpinned by the ISCC certification granted to the PE pipes at our Ringsheim site.

However, there are various other small and not-so-small steps that SIMONA can take to reduce its own carbon foot-print, such as purchasing energy storage systems, optimising our production processes and even giving our staff useful information on energy consumption. Sustainability is a factor in all our investment decisions, particularly where the energy efficiency of our systems and facilities is concerned.

OUR SUSTAINABILITY STRATEGY

Formulated by a global team, our new sustainability strategy is geared towards bringing together a large number of individual measures and concepts for a sustainable SIMONA and distilling them into clear objectives for protecting the environment and climate. It is built on three pillars:

1. Sustainable products

The benefits offered by our plastic products – durability, low weight and ease of recycling – are to be enhanced further by developing products that are bio-based or made using recycled materials. We have already taken an important step in this direction by gaining certification in accordance with the ISCC (International Sustainability & Carbon Certification) system. This allows us to use raw materials that are generated from waste rather than being oil-based, without compromising on quality or having to obtain the necessary approvals and certificates. This 'mass balance approach' enables customers to save CO_2 .

2. Sustainable production and processes

We have started to $\log \mathrm{CO}_2$ emissions at our plants and will be moving on to setting and meeting measurable targets for reducing them. We also want to bring about a further cut in our waste rate – despite it already being at a low level – and become even more energy-efficient.

3. Valuing and appreciating staff

The aim of this pillar of our sustainability strategy is to be an attractive employer to talented individuals and keep employees loyal to SIMONA. A company like a friend – at all levels: from our training courses, mobile working options and health management through to 'Vision Zero', the target of no occupational accidents whatsoever at our sites across the world.

PRODUCTS FOR SAFETY-CRITICAL AND ENVIRON-MENTALLY RELEVANT APPLICATIONS

Water treatment

In view of the world's growing population, climate change and the decrease in rainfall that it is causing, ensuring a safe and reliable supply of clean drinking water across the globe is an increasingly vital challenge. Water is also a critical resource in the chemical industry, where it is used as a coolant, a solvent and a cleaning agent. No less than 97 per cent of the world's water resources exist in the form of salt or brackish water. It therefore makes sense to use these resources to supply drinking water. Pipeline systems made from SIMONA® PE, PP, PVDF and ECTFE are used in seawater desalination and water treatment plants across the world and help to clean water, transport it safely without any losses, reduce contamination and turn salt water into a usable commodity.



Plastics play a key role in the production of drinking water at seawater desalination plants



Plastics help to reduce the weight of rail vehicles and are 100 $\!\%$ recyclable

Food and nutrition

Fish can make a sustainable contribution to feeding the world's growing population, and per capita consumption has risen steadily in recent years. Whilst wild fish catches are stagnating, the yield from aquaculture is continuing to increase and already makes up over 50 per cent of the global catch. By focusing on equipping land-based farming systems, SIMONA is helping to grow the aquaculture yield further, such as with its innovative twin-wall sheet, which provides the basis for more lightweight fish farm tanks as well as bringing benefits in use.

Reducing emissions

Vehicles and aircraft need to be efficient, safe, reliable and comfortable all at the same time. Developed specifically for fitting out the interiors of various means of transport, plastics from SIMONA and our subsidiaries SIMONA Boltaron and SIMONA PMC are impressively lightweight. This paves the way for lighter cars, trains and planes and thus helps to reduce emissions.

SUSTAINABLE PRODUCT LINE ISCC PLUS CERTIFIED

ISCC-certified pellets for plastics production

SIMONA will soon be using sustainably produced pellets in its pipe extrusion operations and creating a separate 'ISCC-certified product line', initially in its product portfolio for pipe systems in infrastructure. In the Infrastructure business line, this will benefit towns, cities and other local authorities in particular. For the first time, they will be able to drive forward efforts to meet the German government's climate action targets using sustainable drinking water, wastewater and cable protection pipes as well and may even be eligible to participate in environmental protection funding schemes.

ISCC, which stands for International Sustainability and Carbon Certification, is the first EU-accredited certification system for sustainability and greenhouse gas reduction that can be applied across the world to all types of biomass and biomass derivatives.



CERTIFICATIONS

Environmental, energy and quality management

Our integrated quality, environmental and energy management system underpins the continuous improvement of our product and process quality, the sustainability of our environmental protection work, the shrinking of our energy footprint and the reduction of our $\rm CO_2$ emissions. Our management system meets the requirements of DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 50001.

Membership of climate and environmental initiatives

'Zero Pellet Loss': part of a global initiative by the plastics industry geared towards avoiding plastic pellet loss along the entire supply chain, including projects for preventing marine litter.

VinyIPlus: a programme for increasing the sustainability of the PVC supply chain. SIMONA is also a co-initiator and holder of the seal of quality for PVC sheets awarded by pro-K, the industry association for semi-finished parts and consumer products made from plastic.

VEA (German Association of Energy Consumers): 'Climate-Friendly SMEs Initiative' to raise awareness of climate protection and cut ${\rm CO_2}$ emissions in businesses.





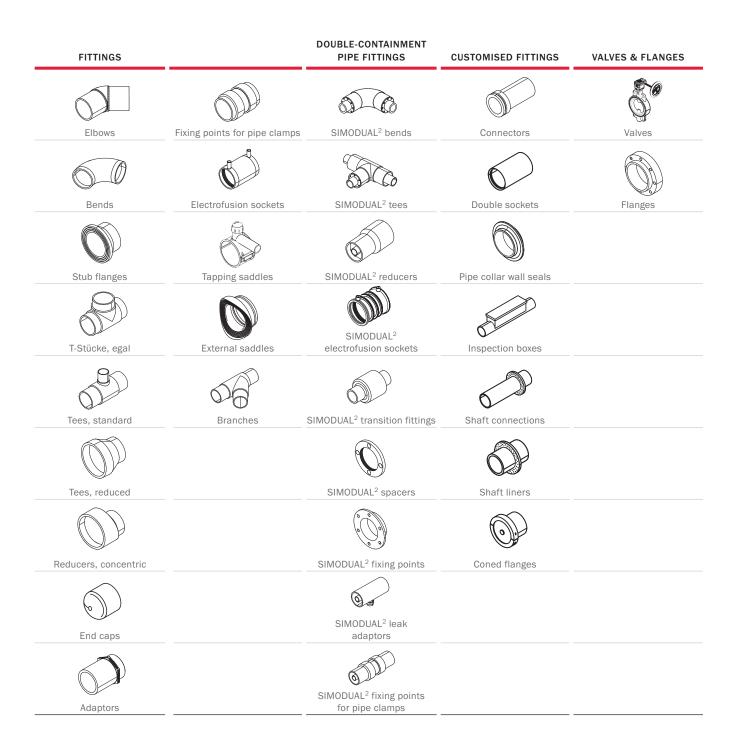
We are here for you every step of the way, from planning and product selection through to on-site technical support.

BEST-IN-CLASS PRODUCTS FOR YOUR FIELDS OF APPLICATION

Everything you are looking for: when it comes to setting up and aligning our product range, delivering customer value is always our top priority. Thanks to the variety, quality and breadth of our product range, you will find perfect solutions for almost all requirements.

SHEETS	RODS & PROFILES	WELDING RODS	PIPES	
	\bigcirc			
Extruded sheets	Solid rods	Welding rods	Pressure pipes	Functional pipes
Pressed sheets	Hollow rods		Sewer pipes	
Foamed sheets	U-Profile		Multilayer pipes	
Podified Sheets	U-FIOIIIE		Multidayer pipes	
Multilayer sheets	U-profiles		Double-containment pipes	
Backed sheets			Drainage pipes	
Cross-ribbed twin-wall sheets			Liner pipes	
Lengthways-ribbed twin-wall sheets			Interconnecting modules	
TWS corners			Coils	
			Ovoid pipes	

+ 160,000



CUSTOMISING FOR INDIVIDUAL NEEDS





Products

Services



Our customers benefit from tailor-made solutions that help them compete successfully within the business arena. Drawing on the expertise of our Technology Centre at the Group headquarters in Kirn as well as our design and engineering capabilities at many sites around the globe, we are able to bring development projects featuring new materials and material combinations to series production readiness within a very short time frame. This is complemented by a proven track record in developing and testing individual property profiles of plastics and crafting solutions that come in a wide range of colours and surface finishes.

Customising is one of our key strengths. Not only do we offer individually tailored formats, colours and dimensions, we also engineer customised properties in response to the growing variety of applications for plastics. In this context, no challenge is too great when it comes to developing tailormade solutions in close collaboration with our partners and customers.

Machine and accessories service

In addition to offering customised product solutions, we also supply machines and accessories for the professional processing and welding of our products. This equipment is available for hire or sale:

- · Welding machines and equipment
- · Peeling and stripping machines
- Clamping tools
- · Silicone heating mats
- Scrapers

Professional support from day one

We offer a first-class support service around the globe. Our Technical Service Centre and Customer Service will offer you extensive advice and support from the initial project planning stage through to product and material selection. They can even assist you with issues relating to on-site applications engineering.

Our employees are experts within their field and have many years' experience in the production and processing of plastics. Be it tank and equipment construction, linings or piping system engineering, our specialists will assist you every step of the way when it comes to choosing suitable products. They can also help you if you have questions regarding post-processing and product usage.

Technical Service Center

Tel.: +49 (0) 67 52 14-587 E-Mail: tsc@simona-group.com

Customer Service:

Tel.: +49 (0) 67 52 14-926 E-Mail: sales@simona-group.com

Effortless planning with digital services

Our website's download centre offers a wealth of information about our products and the materials used. The mySIMONA portal provides access to additional services such as our SIMCHEM database as well as online tools for structural calculations and product availability search.

Our digital planning tools

- SIMONA® SmartTank: software for the structural calculation of rectangular and cylindrical tanks
- SIMCHEM: online database with details of the chemical resistance of our materials
- · Download function for technical data relating to fittings
- SIMOstatics for structural calculations supports you in providing us with the necessary information for structural analysis tailored to your specific requirements – simple and efficient
- SIMOmaterials for material selection: simply enter the operating temperature for an initial recommendation of suitable materials
- SIMONA online catalogue: overview of our product range with the option of comparing different materials and adding items to your personal list of favourites
- Availability widget that displays the availability of the queried products up to the maximum order quantity (for customers)

SIMONA Academy - Specialist training from experts

The SIMONA Academy is a highly professional and trusted partner when it comes to imparting specialist knowledge in the field of plastics engineering. Our portfolio includes courses with regard to our standard training programme as well as individual seminars tailored to your needs.

Our staff members assigned to our coaching team are faced with new technical challenges on a daily basis. Displaying a keen sense of commitment and motivation, they always have their finger on the pulse of things and enjoy sharing their knowledge in theory and practice.

Find out more about our services at:

www.simona.de/academy





WHAT MAKES SIMONA UNIQUE



'A company like a friend.': We consider this to be a fitting summary of the long-standing partnerships and amiable relations between SIMONA employees and all of the company's stakeholders. Whether it's a customer, supplier, partner or shareholder, almost everyone within the company has a story to tell.

Some examples include the SIMONA Family Day, the joint igloo-building event organised by one of the departments, the film shot as the new trainees got to know each other for the first time, coffee in the corridor, the fireside chat with the Management Board, the half-marathon we completed together, the Forklift Cup and the joint Environment Day. There are also stories of consolation after a lost contract or simply an exhausting day at work, of a warm welcome at another plant, of in-depth induction meetings and of discussions and sometimes even arguments about the best solution for our customers.

SIMONA thrives on these intensive and often friendly relationships. People make all the difference – a fact that SIMONA capitalises on when competing for the best minds. 'A company like a friend' encapsulates SIMONA's attitude to life. At SIMONA, colleagues can become friends. Group activities outside of the workplace create a bond that gives people the strength to overcome challenges at work together. This type of interaction provides space for and encourages private relationships. Flat hierarchies, open doors, fair interaction and regular events, including family events, are just a few examples of our commitment. This not only ensures a high degree of solidarity but also increases performance and with it our economic success.

Secure jobs with a future

This culture of partnership and trust is built on a strong foundation. A solid financial base combined with corporate decisions geared towards long-term success has enabled SIMONA to achieve global and profitable growth. We aim to continue this success worldwide by focusing on a high level of application orientation and five fields of application. We set ourselves ambitious goals for each financial year.

This is why SIMONA offers jobs that are both secure and oriented towards the future. We fill both specialist and management positions with a healthy mix of our own internal employees and fresh momentum from outside the company. Our employees share in our success with an EBIT-based bonus and attractive benefits such as holiday and Christmas bonuses, a gym allowance and a pension scheme. Due to our global connections, we promote the continued development of our employees and also provide the opportunity to work abroad.



Developing - Moving forward

Staff development is an integral part of SIMONA's philosophy. Following the motto 'Your talent. Our future.' every employee can take advantage of extensive internal and external training opportunities. We encourage and challenge. Internal training includes market and product development as well as language and IT courses. We also offer training on project management, presentation skills or intercultural awareness. SIMONA also offers a wide range of personalised training opportunities, which are supported both financially and in terms of time.

An international and interdisciplinary 'Leadership Circle' provides various modules to prepare committed employees for the responsibility of technical and managerial tasks. We regularly train our managers in personal development and leadership performance. SIMONA has already received several awards for its commitment to staff development.

We have also received several awards for our commitment to training. SIMONA provides training for young people in a wide range of technical and commercial professions. The employment rate is high and the tasks are varied. We also work with several universities to offer dual study programmes. The offer is rounded off by internships for pupils and students.

Overview of benefits

- · Holiday and Christmas bonus
- 30 days leave
- Company pension scheme
- Company health management
- Mobile working
- Employee benefits such as allowance for gyms and use of the Corporate Benefits discount platform
- Free parking and company events

Key figures (as of 2022):

Employees worldwide: approx. 1,650

Employees in

Europe: approx. 1,210 Germany: approx. 830 Trainees: approx. 60

Employees in the USA: approx. 340 Employees in Asia: approx. 130

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