

Key

Fields of application



Trunk orthoses



Orthoses for upper extremities



Orthoses for lower extremities



Foot/leg prostheses



Hand/arm prostheses

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Plastics in Service of Health SIMONA – A Trusted Partner



Acknowledged for its consistently high quality, SIMONA has been a trusted partner to the orthopaedic technology sector for more than 35 years. The SIMONA® SIMOLIFE line of sheet materials represents the most extensive range of products tailored to the specific requirements of the orthopaedics industry. Using certified raw materials, we manufacture premium-quality products that meet the highest standards applicable within the health care sector.

Global Thermoplastic Solutions – Welcome to SIMONA

SIMONA is acknowledged as one of the leading producers and development partners in the field of thermoplastics. We are able to offer you best-in-class solutions tailored to your applications: in the chemical processing industry, in the water, energy and commodities supply sector as well as in the field of mobility, construction and environmental technology. What is more, our operations span the globe.

Drawing on our outstanding abilities in process engineering, we specialise in the production of plastic sheets, fittings and piping systems designed to meet the highest standards. Our ambition is to become your first port of call for all safety- and eco-specific applications.

Extensive product range

SIMONA boasts one of the world's largest portfolios of thermoplastic products:

- Sheets
- Finished parts and profiles
- Welding rods
- Solid and hollow rods
- Pipes and fittings
- Valves

We use a wide selection of premium-quality materials to manufacture our products. Working in close cooperation with your team, we are also able to modify existing materials or develop entirely new solutions for the purpose of creating customised products that meet your specific requirements.

Best-in-class quality

Frequent product audits and endurance testing provide essential data for our R&D engineers to make targeted improvements to the SIMONA portfolio on a continual basis. Committed to excellence, we are thus able to offer an innovative, high-quality product range.

Expert advice

As a customer, you always take centre stage: from project development and materials procurement through to production and on-site planning, we are committed to providing the very best professional advice and assistance. At the same time, we are inspired and spurred on by new technical challenges.

Global distribution network

SIMONA operates production plants in Europe, America and Asia. Maintaining a global network of subsidiaries and distribution partners, we are renowned for providing a fast, flexible and reliable service.

Compelling solutions

SIMONA City is designed to capture the spirit of diversity that infuses our portfolio of products. Discover SIMONA City!



www.simona-city.com





The management systems operated by SIMONA AG with regard to quality, the environment and energy resources are certified in accordance with DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 50001.

The quality management system of SIMONA AG in compliance with the Pressure Equipment Directive is certified to 97/23/EC Annex I, para. 4.3.

SIMONA® SIMOLIFE Diversity of Materials

Thermoplastics have been instrumental in the evolution of modernday orthopaedic technology and are now an integral part of this area of application. Today, they have almost completely replaced classic materials such as wood and leather.

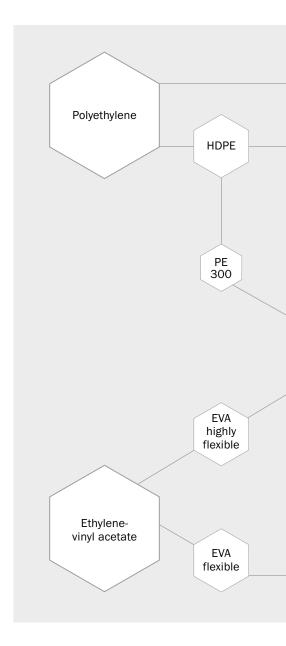
The range of plastics to choose from is extensive, with polyethylene, polypropylene, ethylene-vinyl acetate, copolyester, etc. being used as compact sheet materials.

Specially developed for the field of orthopaedic technology, the SIMONA® SIMOLIFE line includes a wide range of products spanning various materials.

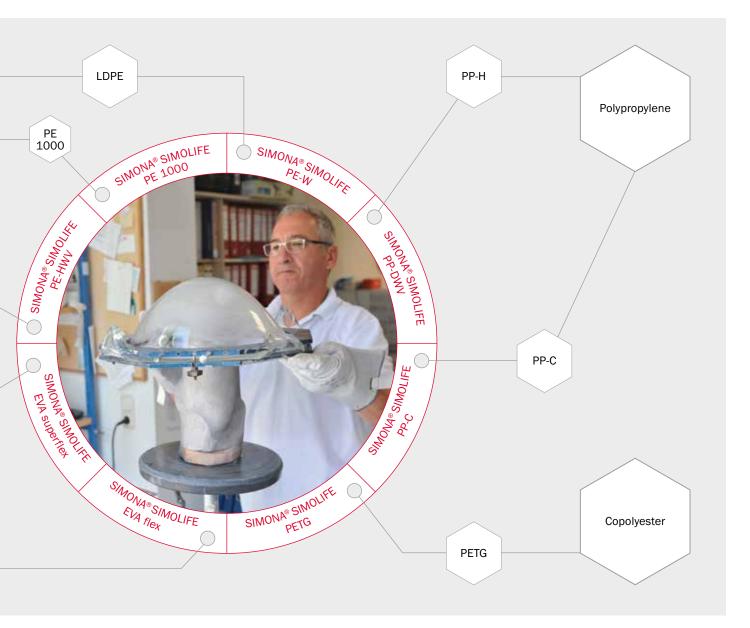
The various types of polymer used within this area display different characteristics. Thus, the demands of orthopaedic technicians with regard to specific production methods can be met in full, as can the personal requirements of each patient.

Plastics are generally acknowledged for their lightweight, skinfriendly properties, as well as offering the benefit of long-lasting functionality. Thanks to the high dimensional stability and efficient processability of the sheet materials, orthopaedic technicians can create orthoses and prostheses that are perfectly adapted to the patient's anatomy.

Each type of plastic offers specific benefits within its defined fields of application.



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From polymer category to product range

SIMONA® SIMOLIFE The Right Material for Each Application

	Diagnosis/test sockets	Final prosthetic sockets	Flexible interior prosthetic sockets
SIMONA® SIMOLIFE PE-HWV		v	
SIMONA® SIMOLIFE PE 1000			
SIMONA® SIMOLIFE PE-W			·
SIMONA® SIMOLIFE PP-DWV		v	
SIMONA® SIMOLIFE PP-C		V	
SIMONA® SIMOLIFE PETG	v		
SIMONA® SIMOLIFE EVA			V

Foot/leg orthoses (AFO, DAFO, KAFO)	Functional foot orthoses (FFO)	Hand/arm orthoses (HO)	Corsets
V	V	V	V
V	~		
V	V	V	V
V	~		V
V	~	V	V
	V		

SIMONA® SIMOLIFE Your Benefits at a Glance



More than 35 years' experience

Acknowledged for the consistently high quality of its products, SIMONA has been a trusted partner to the orthopaedic technology sector for many years. Frequent product audits and endurance testing provide essential data for our R&D engineers to make targeted improvements to the SIMONA portfolio on a continual basis. Committed to excellence, we are thus able to offer an innovative, high-quality product range.

Highest quality standards

We only use certified raw materials of the highest quality for the

manufacture of SIMOLIFE products. The purity of these raw materials is safeguarded by stringent incoming goods inspections. Continuous quality monitoring during the production process and low-stress sheet extrusion help to guarantee consistent material properties for subsequent use in your field of application.

Excellent processing characteristics

SIMONA® SIMOLIFE products have excellent thermoforming properties. With the help of advanced process engineering, we have reduced the level of material shrink-

age to a minimum – a tangible benefit particularly in the field of orthopaedic technology. This translates into excellent dimensional stability and best possible fit.

Very good skin compatibility

All SIMOLIFE products are physiologically safe as per BfR, EU and FDA and are certified as biocompatible in accordance with DIN EN ISO 10993-5/-10. As a result of these certified properties and the resistance to sweat, cosmetics, skin creams, detergents and disinfectants, they offer users the combined benefits of safety and reliability.

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Product Range

		SIMONA® SIMOLIFE PE-HWV	SIMONA® SIMOLIFE PE 1000	SIMONA® SIMOLIFE PE-W	SIMONA® SIMOLIFE PP-DWV	SIMONA® SIMOLIFE PP-C	SIMONA® SIMOLIFE PETG	SIMONA® SIMOLIFE EVA flex	SIMONA® SIMOLIFE EVA superflex
Sheets (S	sizes/thicknesses	in mm)				,			
	400 x 400						9, 10, 12 , 15 , 20	3, 4, 6, 8, 9 , 10 , 12 , 15	6, 9, 10 , 12 , 15
	1,208 x 804						8, 9, 10, 12 , 15 , 20		
	2,000 x 1,000	2, 3 , 4 , 5 , 6 , 8 , 10	1, 2, 3, 4, 5, 6	1 , 1.5, 2 , 3 , 4 , 5 , 6	2, 3 , 4 , 5 , 6	2, 3 , 4 , 5 , 6		3, 4, 6, 8, 9, 10, 12, 15	
	50,000 x 1,000			1, 1.5, 2					
	Colours	natural, skin-coloured	natural, black, green	natural	natural	natural	transparent	natural, skin-coloured	natural
	Antibacterial properties on request	~	-	_	V	-	~	~	-

Bold type = available immediately (colour: natural or transparent); light-faced type = available on request The sizes specified are standard sizes. Other sizes, thicknesses and colours available on request.

Material specifications

	SIMONA® SIMOLIFE PE-HWV	SIMONA® SIMOLIFE PE 1000	SIMONA® SIMOLIFE PE-W	SIMONA® SIMOLIFE PP-DWV	SIMONA® SIMOLIFE PP-C	SIMONA® SIMOLIFE PETG	SIMONA® SIMOLIFE EVA flex	SIMONA® SIMOLIFE EVA superflex
Density, g/cm³, DIN EN ISO 1183	0.947	0.930	0.928	0.905	0.910	1.270	0.934	0.955
Tensile modulus of elasticity, MPa, DIN EN ISO 527	900	700	350	1,380	1,200	1,900	75	19
Shore hardness D, DIN EN ISO 868	64	60	54	70	67	78	39	29
Processing temperature, °C (oven temperature)*	165 - 180	190 - 215	120 - 130	185 - 215	185 - 215	160 - 170	150 - 160	150 - 160
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3	3 - 4	2 - 3	2 - 3	2 - 3	3 - 4	1 - 2	1 - 2
Biocompatibility in accordance with DIN EN ISO 10993-5/-10	V	~	~	~	~	~	~	V
Physiological safety in accordance with BfR, EU and FDA	V	~	~	~	~	~	~	V

^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness.

Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

SIMONA® SIMOLIFE PE-HWV Processing Example: Lower Arm Orthosis













SIMONA® SIMOLIFE EVA

Processing Example: Interior Prosthetic Socket













With the kind assistance of the medical supply store "Sanitätshaus Guckes" in Worms.

SIMONA® SIMOLIFE PE-HWV



SIMONA® SIMOLIFE PE-HWV

Fields of application	Description	Properties	Certifications
	High-density polyethylene	Superior to LDPE in rigidity and strength	Biocompatibility in accordance with DIN EN ISO 10993-5 and
		Minimal, calculable shrinkage	DIN EN ISO 10993-10
	(HDPE)	Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/m³, DIN EN ISO 1183	0.947
Tensile modulus of elasticity, MPa, DIN EN ISO 527	900
Shore hardness D, DIN EN ISO 868	64
Processing temperature, °C (oven temperature)*	165 - 180
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours	Antibacterial properties on request
2,000 x 1,000	2, 3 , 4 , 5 , 6 , 8 , 10	natural, skin-coloured	~

Bold type = available immediately (colour: natural); light-faced type = available on request

The sizes specified are standard sizes.

Other sizes, thicknesses and colours available on request.

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SIMONA® SIMOLIFE PE 1000



SIMONA® SIMOLIFE PE 1000

Fields of application	Description	Properties	Certifications
2 2 2 2 2	Ultra-high-molecular-weight polyethylene (PE-UHMW)	High abrasion and wear resistance	Biocompatibility in accordance with DIN EN ISO 10993-5 and
		High impact strength	DIN EN ISO 10993-10
		Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/m³, DIN EN ISO 1183	0.930
Tensile modulus of elasticity, MPa, DIN EN ISO 527	700
Shore hardness D, DIN EN ISO 868	60
Processing temperature, °C (oven temperature)*	190 - 215
Heat-up time, min/mm sheet thickness (retention time in oven)*	3 - 4

^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours
2,000 x 1,000	1, 2, 3, 4, 5, 6	natural, black, green

Bold type = available immediately (colour: natural); light-faced type = available on request

The sizes specified are standard sizes.

Other sizes, thicknesses and colours available on request.

SIMONA® SIMOLIFE PE-W





SIMONA® SIMOLIFE PE-W

Fields of application	Description	Properties	Certifications
2 2 2 2 2	Plasticized polyethylene	Lower rigidity and strength than HDPE	Biocompatibility in accordance with DIN EN ISO 10993-5 and
		High flexibility	DIN EN ISO 10993-10
	(LDPE)	Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/m³, DIN EN ISO 1183	0.928
Tensile modulus of elasticity, MPa, DIN EN ISO 527	350
Shore hardness D, DIN EN ISO 868	54
Processing temperature, °C (oven temperature)*	120 - 130
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours
2,000 x 1,000	1 , 1.5, 2 , 3 , 4 , 5 , 6	natural
50,000 x 1,000	1, 1.5, 2	natural

Bold type = available immediately; light-faced type = available on request The sizes specified are standard sizes. Other sizes, thicknesses and colours available on request.

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SIMONA® SIMOLIFE PP-DWV



SIMONA® SIMOLIFE PP-DWV

Fields of application	Description	Properties	Certifications
† † † †		Higher rigidity and strength than PP-C	
	Delygrapylana	Fatigue stability with DIN EN IS	Biocompatibility in accordance with DIN EN ISO 10993-5 and DIN EN ISO 10993-10
	Polypropylene homopolymer	Minimal, calculable shrinkage	5.11 2.11 100 10000 10
		Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

material openioacione	
Density, g/m³, DIN EN ISO 1183	0.905
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,380
Shore hardness D, DIN EN ISO 868	70
Processing temperature, °C (oven temperature)*	185 - 215
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours	Antibacterial properties on request
2,000 x 1,000	2, 3 , 4 , 5 , 6	natural	~

Bold type = available immediately; light-faced type = available on request The sizes specified are standard sizes.

Other sizes, thicknesses and colours available on request.

SIMONA® SIMOLIFE PP-C



SIMONA® SIMOLIFE PP-C

Fields of application	Description	Properties	Certifications
Polypropylene copolymer		Higher impact strength than PP-DWV	Biocompatibility in accordance with DIN EN ISO 10993-5 and
	,, ,,	Lower susceptibility to stress cracks DIN EN ISO 10993-10	DIN EN ISO 10993-10
	Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA	

Material specifications

Density, g/m³, DIN EN ISO 1183	0.910
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,200
Shore hardness D, DIN EN ISO 868	67
Processing temperature, °C (oven temperature)*	185 - 215
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

1 Toduct Kange				
Sizes in mm	Thicknesses in mm	Colours		
2,000 x 1,000	2, 3 , 4 , 5 , 6	natural		

Bold type = available immediately; light-faced type = available on request The sizes specified are standard sizes. Other sizes, thicknesses and colours available on request.

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SIMONA® SIMOLIFE PETG





SIMONA® SIMOLIFE PETG

Fields of application	Description	Properties	Certifications
		Highly transparent even after processing Biocompatibility in accordance with DIN EN ISO 10993-5 and	
	Thermoplastic copolyester	Excellent thermoforming properties	with DIN EN ISO 10993-5 and DIN EN ISO 10993-10 Physiological safety in accordance
	33,233	Good postforming properties Physiological safety in with BfR, EU and FDA	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/m³, DIN EN ISO 1183	1.270
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,900
Shore hardness D, DIN EN ISO 868	78
Processing temperature, °C (oven temperature)*	160 - 170
Heat-up time, min/mm sheet thickness (retention time in oven)*	3 - 4

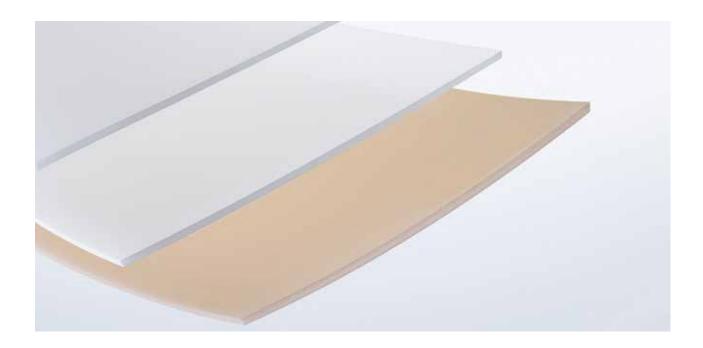
^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours	Antibacterial properties on request
400 x 400	9, 10, 12 , 15 , 20	transparent	~
1,208 x 804	8, 9, 10, 12 , 15 , 20	transparent	~

Bold type = available immediately; light-faced type = available on request The sizes specified are standard sizes. Other sizes, thicknesses and colours available on request.

SIMONA® SIMOLIFE EVA flex



SIMONA® SIMOLIFE EVA flex

Fields of application	Description	Properties	Certifications
* * * * *		High flexibility	Biocompatibility in accordance with DIN EN ISO 10993-5 and
	Ethylene-vinyl acetate	DIN EN ISO 10993-10	DIN EN ISO 10993-10
		William, calculable 3iiiiikage	Physiological safety in accordance
		Excellent formability	with BfR, EU and FDA

Material specifications

Density, g/m³, DIN EN ISO 1183	0.934
Tensile modulus of elasticity, MPa, DIN EN ISO 527	75
Shore hardness D, DIN EN ISO 868	39
Processing temperature, °C (oven temperature)*	150 - 160
Heat-up time, min/mm sheet thickness (retention time in oven)*	1 - 2

^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours	Antibacterial properties on request
400 x 400	3, 4, 6, 8, 9 , 10 , 12 , 15	natural, skin-coloured	V
2,000 x 1,000	3, 4, 6, 8, 9, 10, 12, 15	natural	~

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Bold type = available immediately (colour: natural); light-faced type = available on request

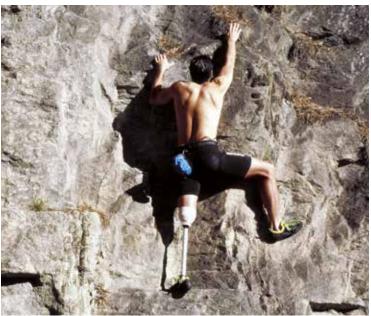
The sizes specified are standard sizes.

Other sizes, thicknesses and colours available on request.

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SIMONA® SIMOLIFE EVA superflex





SIMONA® SIMOLIFE EVA superflex

Fields of application	Description	Properties	Certifications
Ethyler	Ethylene-vinyl acetate	Very high flexibility	Biocompatibility in accordance with DIN EN ISO 10993-5 and DIN EN ISO 10993-10 Physiological safety in accordance with BfR, EU and FDA
		Minimal, calculable shrinkage	
	Edificite villy acctate		
		Excellent formability	

Material specifications

Density, g/m³, DIN EN ISO 1183	0.955
Tensile modulus of elasticity, MPa, DIN EN ISO 527	19
Shore hardness D, DIN EN ISO 868	29
Processing temperature, °C (oven temperature)*	150 - 160
Heat-up time, min/mm sheet thickness (retention time in oven)*	1 - 2

^{*} The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours
400 x 400	6, 9, 10 , 12 , 15	natural

Bold type = available immediately; light-faced type = available on request The sizes specified are standard sizes. Other sizes, thicknesses and colours available on request.

Advice and Information

Consulting Service

Our customers benefit from customised solutions that help them compete successfully within the business arena. SIMONA can draw on many years of experience in the manufacture of sheets, pipes and fittings. You will also be able to rely on our extensive know-how and high level of technical expertise in the field of polymer engineering. Our Technical Service Centre team looks forward to assisting you:

Phone +49 (0) 67 52 14-587 Fax +49 (0) 67 52 14-302 tsc@simona.de

SIMONA Sales Academy

We organise seminars at our Technology Centre and educational facilities in Kirn for the purpose of providing product training and information on the very latest processing and fabrication methods. On request, we can also provide training at your own premises. Contact details:

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Information Service

Further information is available in the form of catalogues, brochures, case studies and project reports. We also offer DVDs, technical data sheets and product samples. Please feel free to contact our Marketing department:

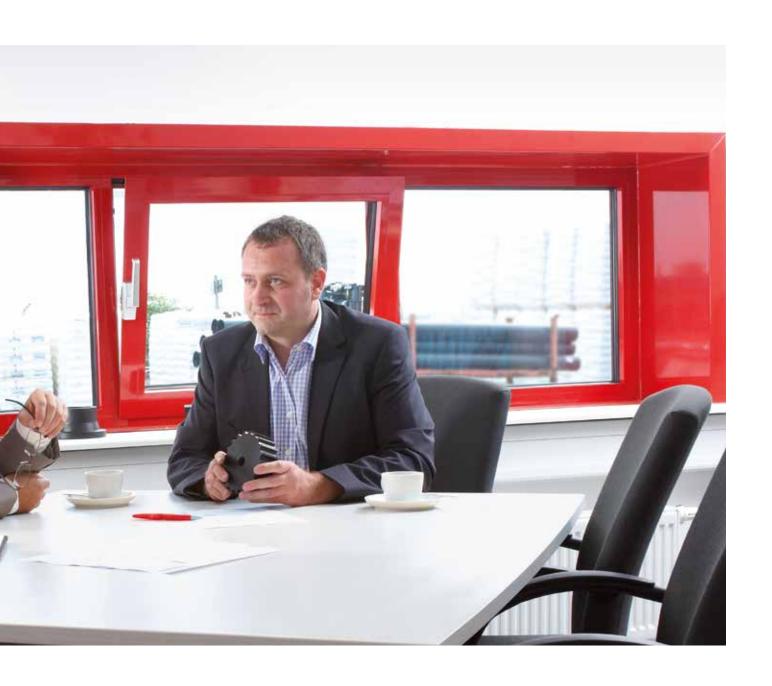
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Delivery Service

Our central warehouse and global distribution centres supply SIMONA standard products from stock, thus guaranteeing speedy and flexible delivery. Various sizes and thicknesses available from stock. Please contact our sales department for further details concerning availability.

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