



Coatings and Composites

Perfect abrasive solutions for coatings and composites



► Types of abrasives

The right one for everyone

► Coated abrasives

- Classical coated abrasives and abrasive systems
- For advanced surface treatment of all types of material



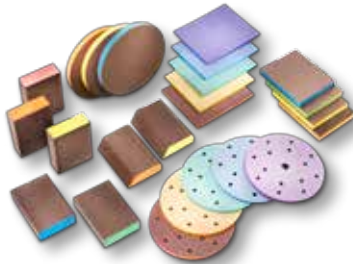
► Nonwoven abrasives

- Nonwoven products for preparation and cleaning tasks and for structuring
- Especially for use on metal



► Foam abrasives

- Foam sanding pads in the widest possible range of shapes and grades
- For precision treatment of wood, fillers, paints and lacquers



► Bonded abrasives

- Precision cutting discs for optimum cutting performance and efficient grinding discs
- For a wide variety of metalworking applications



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- Clearly arranged comparison of products
- Accessible anytime from anywhere

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Perfect surfaces

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► Technology leader

With the highest quality standards



Global partner

Developed and manufactured using Swiss technology and represented on location in over 80 countries: sia Abrasives markets complete abrasive systems for all kinds of surfaces with its 1300 employees worldwide.

Production expertise

The technology leader is once again setting new standards with the world's most state-of-the-art abrasives production plant, the Maker 5.

Innovative solutions

Unique power of innovation thanks to 140 years of know-how: sia Abrasives is the abrasives specialist with the greatest industry and process expertise, offering the right abrasive application for every material.

Pioneer and trailblazer since 1875

Frauenfeld in Switzerland has stood for the future of abrasives production since 1875: it is the home of sia Abrasives' tradition.

► Know-how

For important branches of industry

► Automotive

As a specialist for the automotive industry and vehicle professionals, sia Abrasives offers a comprehensive full range of products tailored to the customer's specific process.



► Aerospace

sia Abrasives makes important contributions to the aerospace industry, offering one of the most comprehensive ranges for tier suppliers and the OEM and MRO industry.



► Marine

sia Abrasives supports marine industry experts by providing state-of-the-art abrasives tailored to the special characteristics of fibre-reinforced composites.



► Rail

Targeted sanding can minimise air resistances. sia Abrasives offers the rail industry optimised product solutions – from body through to mounted part.



► Truck / Bus

sia Abrasives offers manufacturers and repair workshops a surface system for abrasive applications from chassis through to mounted part.



► Wind Power

The future-oriented wind power industry counts on energy yield and state-of-the-art materials. With its material-optimised abrasives, sia Abrasives is a partner for manufacturers and maintenance companies.





Maker 5

Welcome to the future



World's most modern abrasives plant

Setting the pace for the next generations of abrasives: Innovative abrasives are manufactured "just in time" using a modularised production process in the technically complex Maker 5 plant.

Impressive production volumes

40 million square metres of abrasive per year: sia Abrasives produces up to 2-metre-wide jumbo rolls on high-tech systems in the Maker 5 – in addition to speciality productions.

Fit for the future

The Maker 5 plant is designed so that it can be adapted to new requirements at any time.

Our green plant

No compromises in ecology either: Heat recovery significantly reduces energy demand, and harmful substances are completely destroyed.



Product innovations

Always one step ahead

▶ sianet

- Powerful net-backed abrasive with and without ceramic grit
- Special net structure for dust-free sanding with the highest abrasive performance
- Ceramic abrasive grit increases removal rate and lifetime



▶ 1948 siaflex

- All-round series for universal use in wet and dry sanding applications
- For top-class results in a wide variety of applications, e.g. in the automotive industry and on wood



▶ siasponge

- Consistent colour system modelled on the colours of the rainbow
- Every foam colour represents a different grit – making it simple, striking and easy to understand
- For maximum process reliability and perfect surface quality



► Coatings

Premium lacquers for the automotive industry, functional coatings for wind power facilities or protective coatings for the marine industry – innovative coatings combine functionality with aesthetics.



► Lacquers and paints



Cathodic dip coating (CDC)

The dip coating is performed in a basin and applies a base coating for the application of subsequent lacquer coats. It can only be used on metal.



Primer

Serves as an adhesion agent, but also as rust protection and insulation between different coats.



Bodyfiller

Light partial surface irregularities in the base material are evened out using bodyfiller.



Primer filler

Primer filler is used as an intermediate layer before the base coat or top coat. The slightest surface irregularities are smoothed to create a surface that is both colour-consistent and flat.



Base coat

This is used for colouring. It absolutely must be painted over with clear lacquer.



Clear lacquer

Provides gloss and protection against weathering effects and mechanical scratches, dust, resins, oil, etc.



Powder coating

This industrial coating method is used mainly for applying primers, primer fillers and top coats during the production process. Cannot be used as a repair method.



Gelcoat

Gelcoat is used to protect the laminate layers underneath. It also has a high gloss level and good UV resistance.



Anti-fouling agent

Used only for underwater applications, mainly in the yacht/boat industry. The eroding toxic layer reduces or prevents moss formation and mussel growth on the lacquer. It has to be renewed in service intervals.



Single-coat lacquer

This is used for colouring. Provides gloss and protection against weathering effects and mechanical scratches, dust, resin, oil, etc.

► The most important sanding applications

Sanding off



Keying



Sanding out



Scuffing



Flatting



Clear coat rework



Fine sanding



Polishing

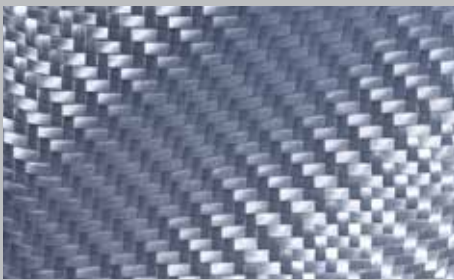


► Composites

Composites are considered materials of the future providing a wide range of applications, e.g. in automotive engineering, the wind power industry, aerospace or machinery and plant construction.



► The 3 most important types of fibre



Glass fibres

Glass fibres are the most frequently used reinforcement material. They are economical, resistant to ageing, weathering and chemicals, and non-flammable. Optimum sanding enables further finishing and preserves the original unique functions.

Summary of the most important features:

- High tensile and compression strength
- Good rigidity
- Good impact toughness
- Good temperature resistance
- Economical price



Carbon fibres

Carbon fibres are used above all for rigid constructions. They not only help to reduce the weight five-fold compared with conventional materials such as steel, but also minimise deflection. The sanding process demands the highest precision and care to prevent breaking points.

Summary of the most important features:

- Extremely high tensile and compression strength
- Extremely high rigidity
- Very low density
- Low thermal expansion coefficient
- High chemical resistance
- Good temperature resistance
- Good electrical conductivity



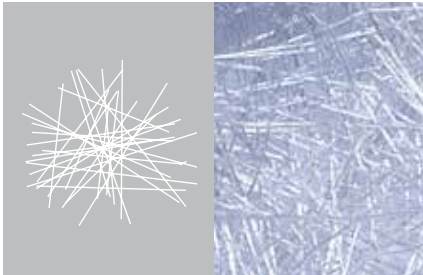
Aramide fibres

Aramide fibres are non-flammable and chemically stable, and they achieve a further weight saving on glass fibres of 25 to 40 percent, increase stability and rigidity by half, and satisfy the most stringent safety requirements. Optimum sanding solutions enable a combination of functions not previously achieved.

Summary of the most important features:

- Extremely high stability
- Extremely high impact toughness
- Very low density
- Good chemical resistance

► Open matrix constructions



Mats

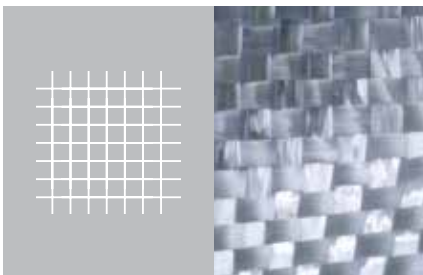
Fibreglass mats are fibre-reinforced synthetics in which the fibres consist of reinforcement materials and casting resins or thermoplastic polymers, and in which the individual spinning threads or yarns are woven with one another. Fibreglass mats are available off the roll, and are used for example in construction parts.



Fibre spraying

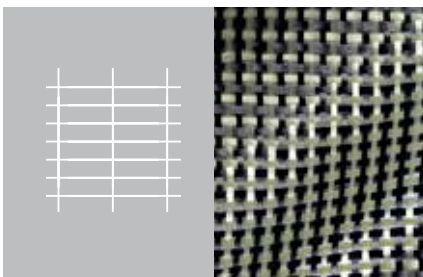
In fibre spraying, a cutting tool is used to cut continuous fibres (rovings) to the desired length, and introduced into the mould together with resin and hardening agent by means of a fibre spraying gun. As with manual lamination, a lamination roll is also used in order to compress the laminate. The greatest disadvantage of this variant is the clearly lower strength compared with laminated woven fabric.

► Woven matrix constructions



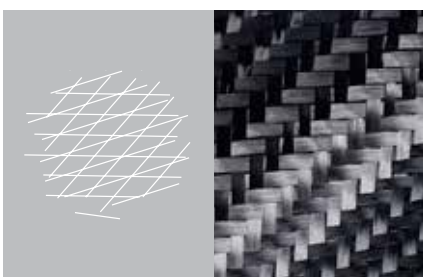
Symmetrical

The simplest weave is plain weave. It is symmetrical and is thus extremely dimensionally stable, slip-proof and fray-proof. Fabrics with plain weave are to be preferred in the production of flat or slightly curved components.



Complex

A more complex matrix enables twill and satin weaves, of which there are numerous variations. In the case of twill weaves, two to three warp threads are skipped. Due to the construction, the strengths of twill weaves are somewhat higher, although their non-slip properties are reduced.



Multiaxial

By placing fibre layers over one another at different angles, reinforcement materials can be produced with fibre orientation that can withstand loading. Due to the extended position of the fibres, for the same wall thickness of the laminate, higher mechanical strengths can be achieved than with woven products.



► **Automotive**



► **Aerospace**



► **Components**



► **Rail**



► **Marine**

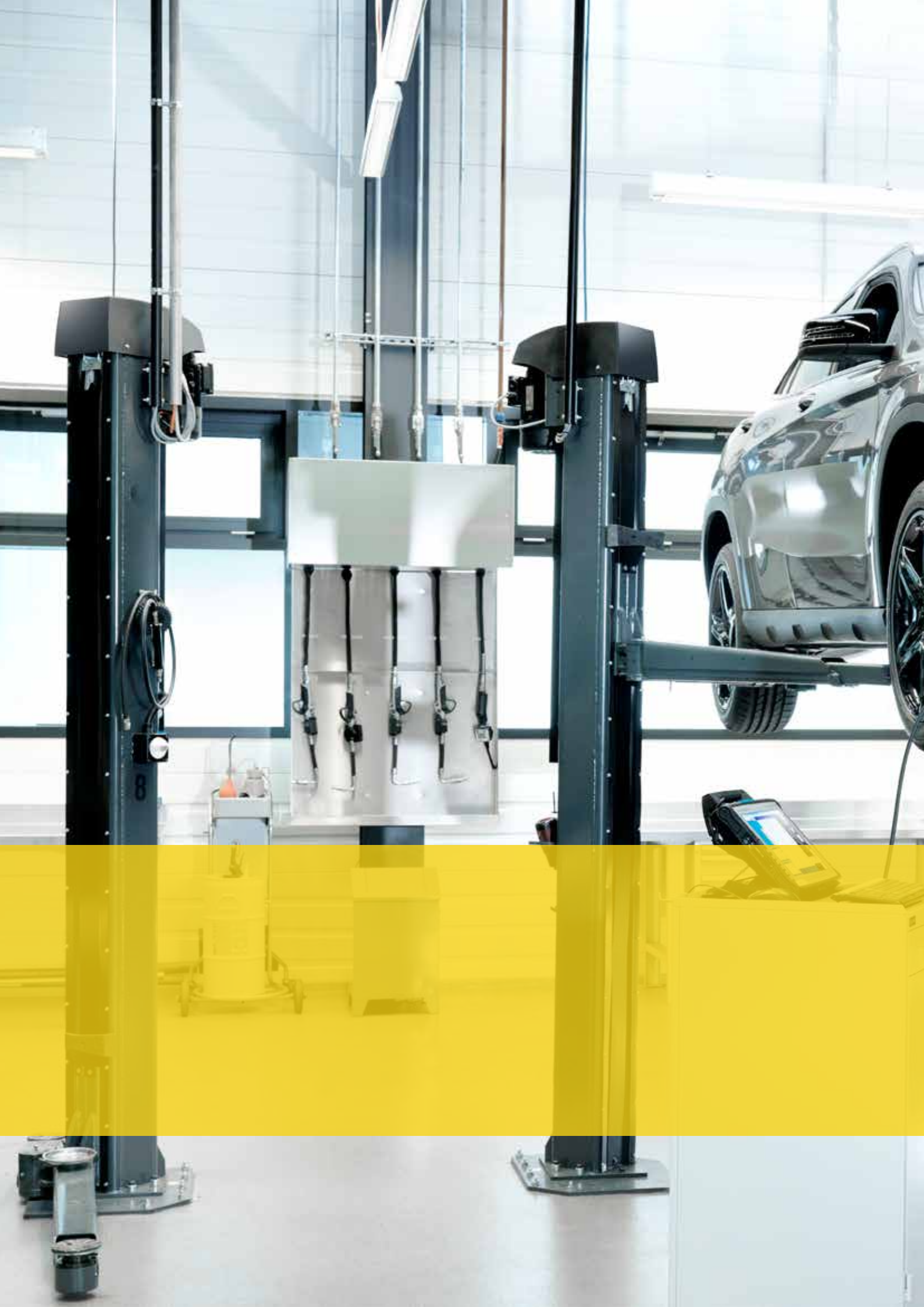


► **Wind Power**



► **Truck / Bus**

Sia
ABRASIVES





Automotive

Stylish design meets functionality and a high level of safety.
sia Abrasives is the specialist for the highest standards in surface treatment –
from coarse sanding through to the perfect finish.





Sanding out

1950 siaspeed	Disc	80 – 240
7900 sianet	Disc	80 – 240
7500 sianet CER	Disc	80 – 240



Flatting bodyfiller

1950 siaspeed	Strip	80 – 120
7900 sianet	Strip	80 – 120
7500 sianet CER	Strip	80 – 120



Fine sanding bodyfiller and old lacquer

1950 siaspeed	Disc	180 – 320
7900 sianet	Disc	180 – 320



Flatting primer filler

1950 siaspeed	Disc	280 – 360
7900 sianet	Disc	280 – 320



Fine sanding primer filler

1950 siaspeed	Disc	400 – 500
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Keying and scuffing

1950 siaspeed	Disc	800 – 1500
7940 siaair	Disc	800 – 2000



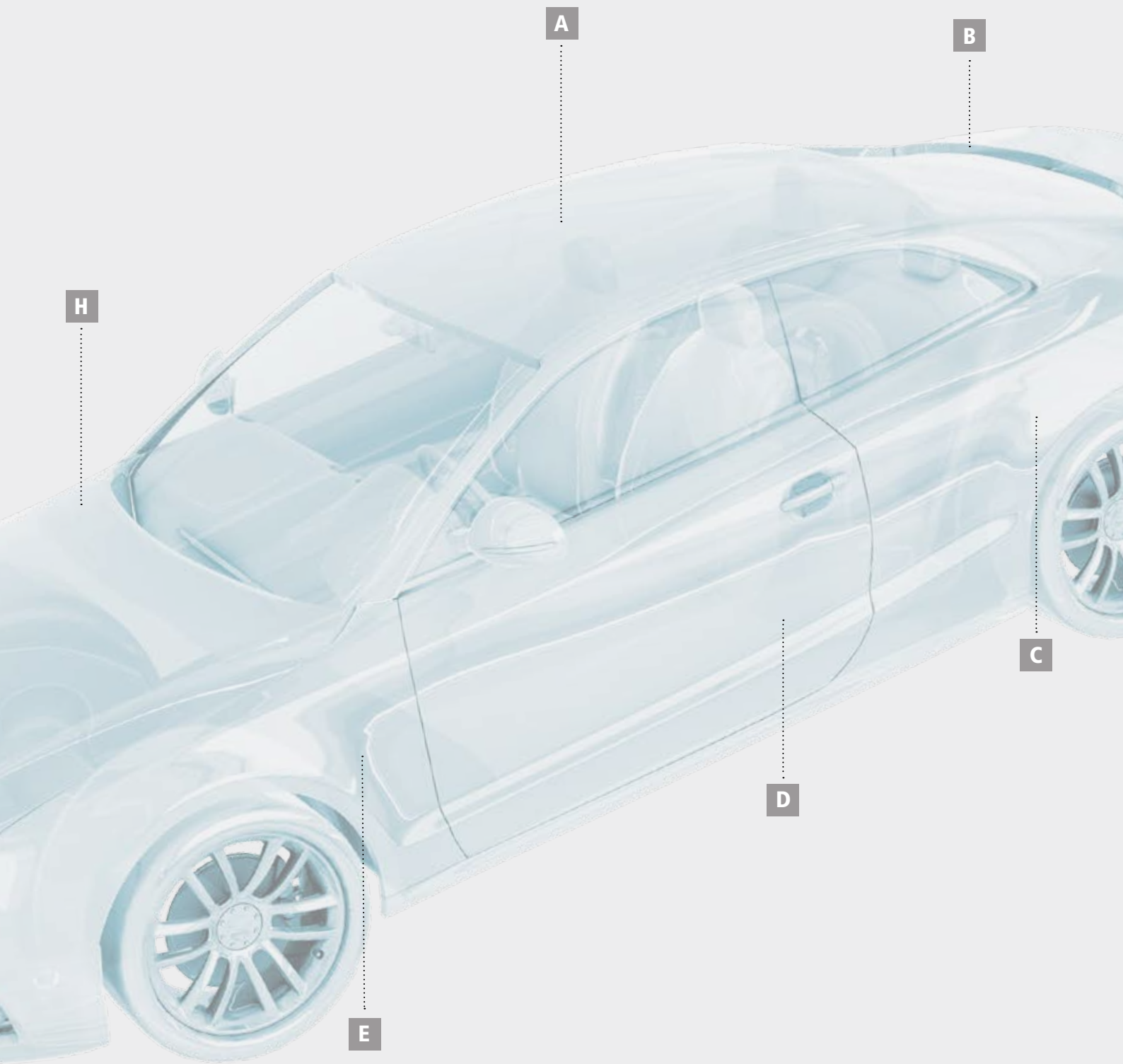
Clear coat rework

1913 siawat	Daisy disc, Sheet	1200 – 2500
1950 siaspeed	Disc	1200 – 1500
7940 siaair	Disc	2000 – 4000
7240 siacarat	Disc	2000 – 3000

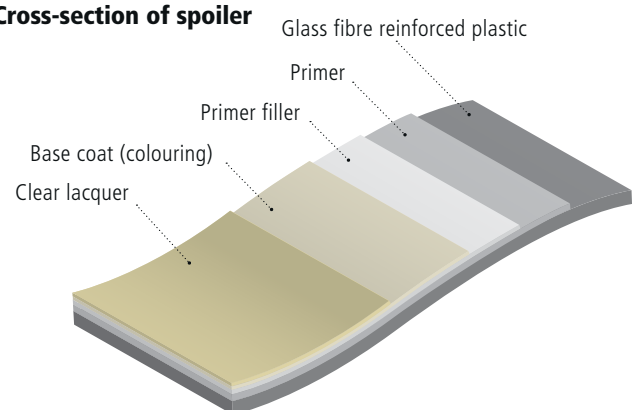


Polishing the surface siachrome polishing system

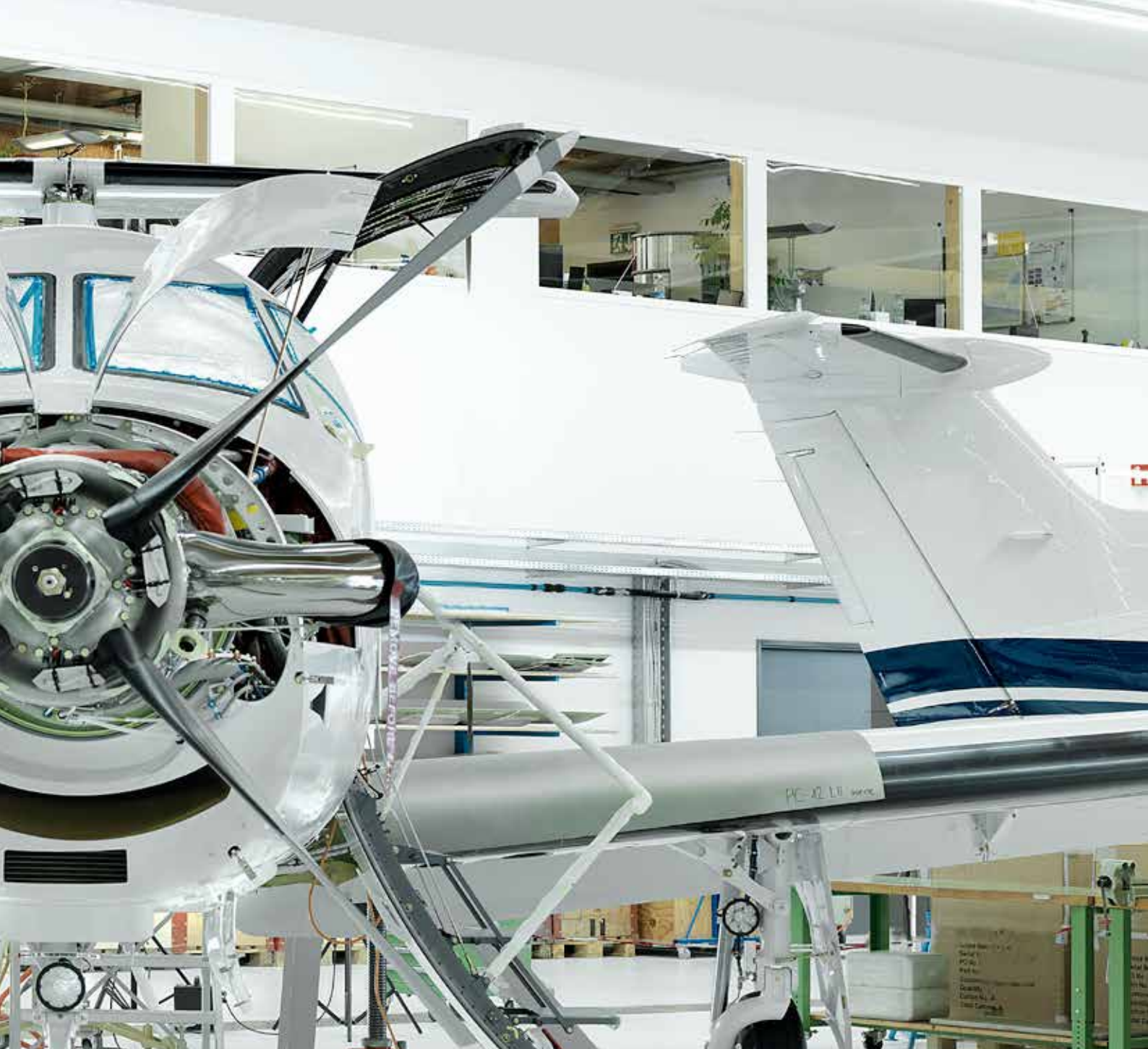




Cross-section of spoiler







Aerospace

The demanding materials and extreme care that has to be taken when manufacturing the components used in the aerospace industry require high-tech abrasive solutions. Our power of innovation and our passion for perfect surfaces makes us the right partner for your application.



Flatting bodyfiller and primer filler

1950 siaspeed	Disc	80 – 320
7900 sianet	Disc	80 – 320
7972 siasponge soft	Strip	medium, fine



Keying primer, removal of orange-peel effect and dust inclusions

1950 siaspeed	Disc	120 – 320
7900 sianet	Disc	120 – 320



Keying primer, reactivating

6130 siafleece hd	Disc	fine A
6120 siafleece	Disc, Strip	very fine A
7241 siacarbon	Disc	240 – 320



Keying top coat, preparing for logo application

1950 siaspeed	Disc, Strip	240 – 600
6120 siafleece	Disc, Strip	very fine



Clear coat rework and polishing

1913 siawat	Daisy disc, Strip	1200 – 2500
7940 siaair	Disc	2000 – 4000
siachrome polishing system	Complete polishing range	



Sanding off paint

1950 siaspeed	Disc	80 – 240
7500 sianet CER	Disc	80 – 240



Cleaning the paint-stripped surface

6120 siafleece	Disc, Strip	very fine
6130 siafleece hd	Disc	fine A

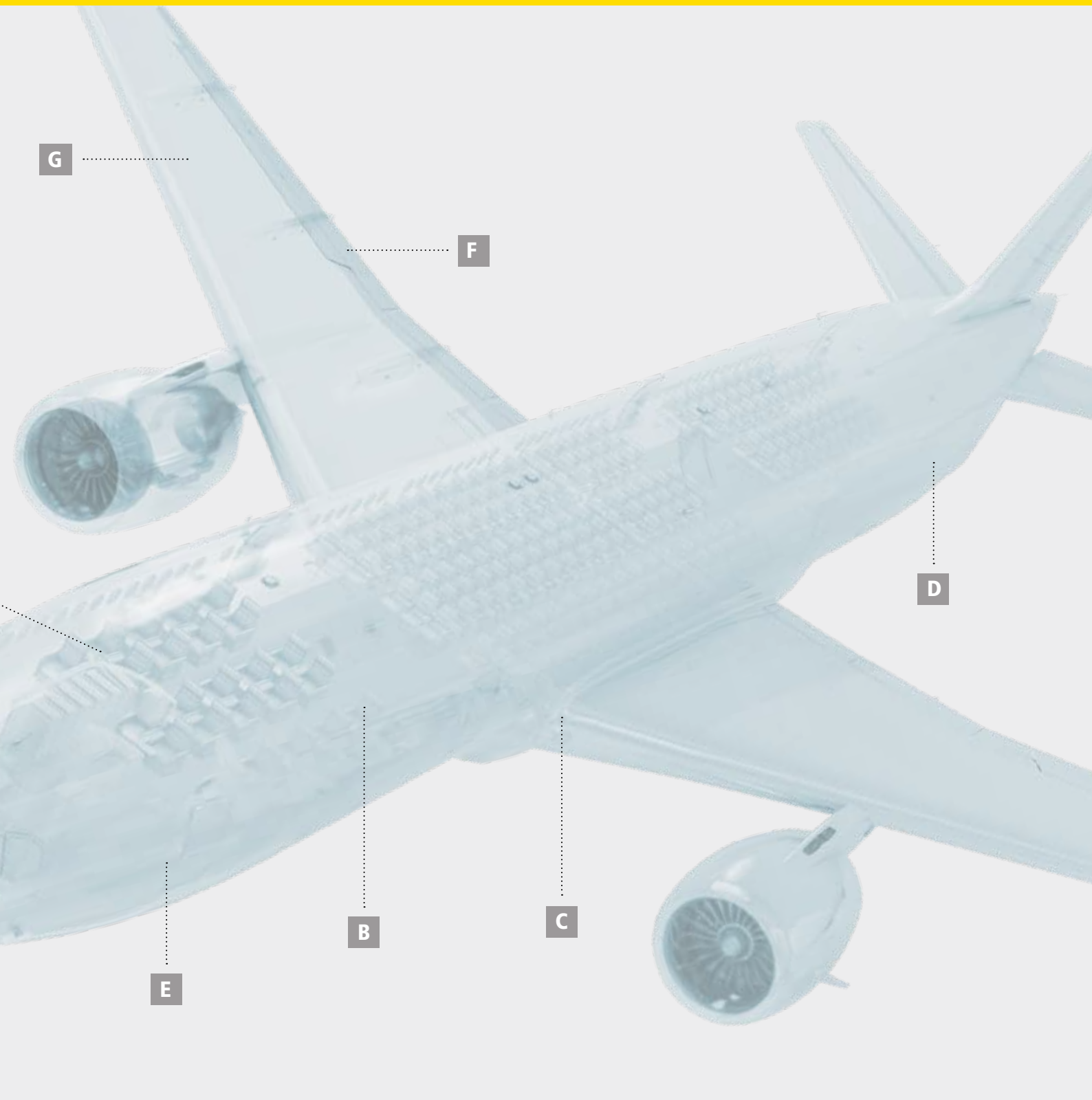


Conditioning the interior

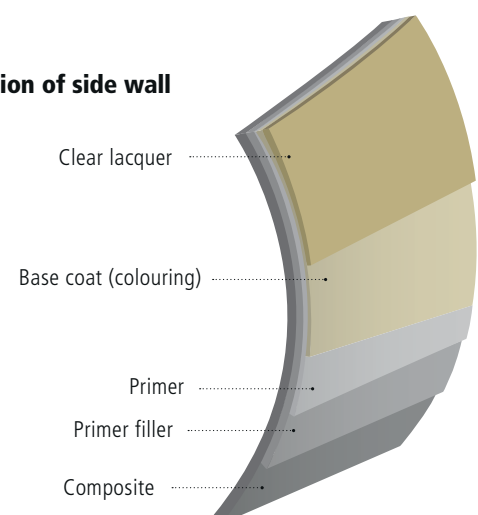
1950 siaspeed	Disc	800 – 1500
1913 siawat	Daisy disc, Strip	2000 – 2500
7940 siaair	Disc	1000 – 3000
siachrome polishing system	Complete polishing range	

H

A



Cross-section of side wall







Marine

Modern boat construction is characterised by elegant shapes and stylishness, but also by achieving minimal weight despite ensuring a strong structure. Employing state-of-the-art materials requires high-tech abrasive solutions with consistent performance and top quality.



Deburring the casting mould edge

4819 siaron 8	Fibre disc	36 – 60
4515 siabite	Fibre disc	36 – 60



Deburring edges in hard-to-reach places

2824 siamet	Spiral belt	36 – 150
2848 siacut x	siafix disc	60 – 120



Coarse sanding gelcoat

1950 siaspeed	Disc, Strip	180 – 240
7500 sianet CER	Disc, Strip	180 – 240
7900 sianet	Disc, Strip	180 – 240



Fine sanding gelcoat

1950 siaspeed	Disc, Strip	280 – 600
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Microfinishing prior to polishing

1950 siaspeed	Disc	800 – 1500
7940 siaair	Disc	800 – 4000
7240 siacarat	Disc	500 – 3000



Polishing the surface

siachrome polishing system



Preparing the negative mould

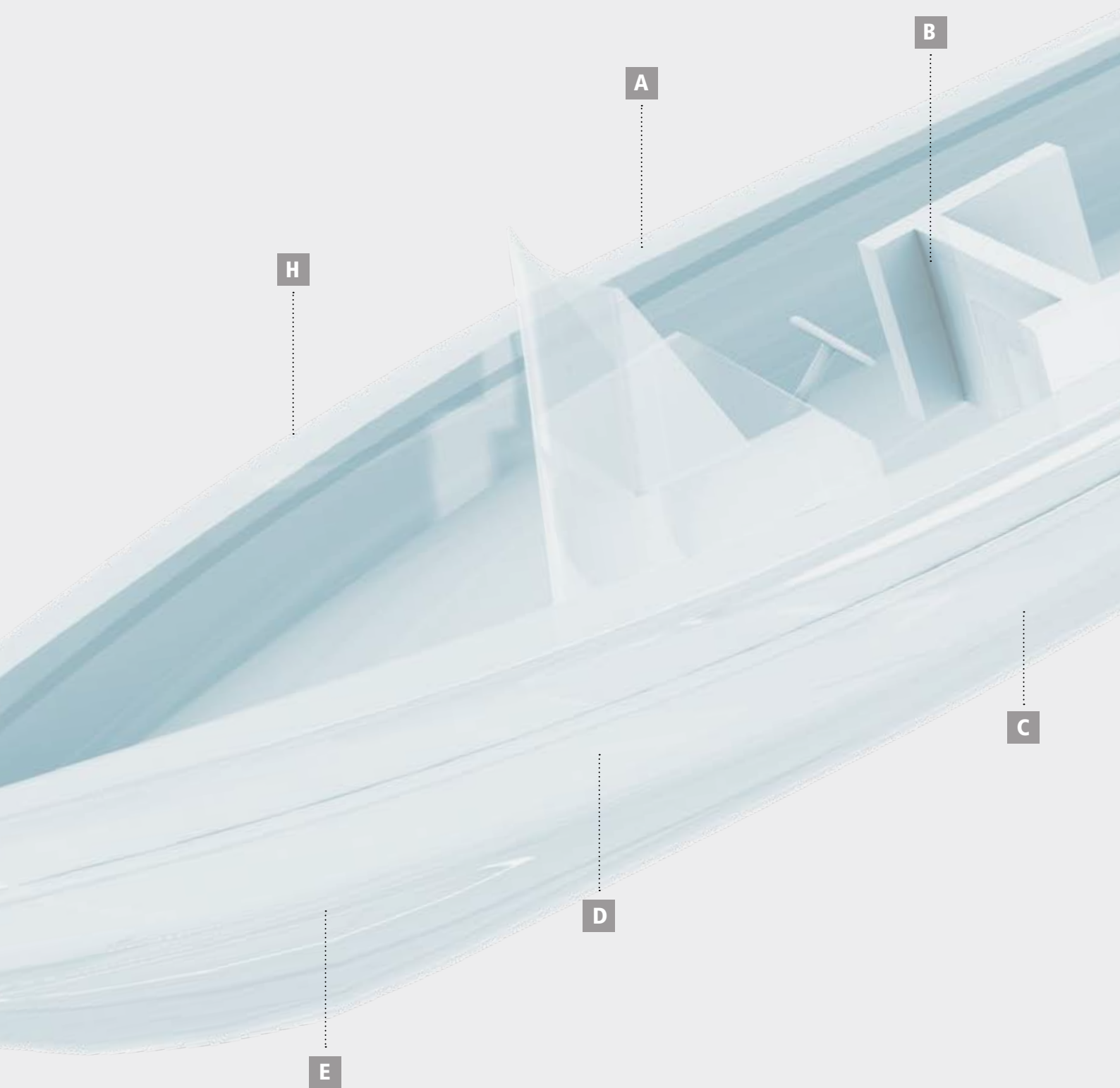
7970 siasponge soft	Strip	super fine, ultra fine, micro fine
7972 siasponge soft	Strip	super fine, ultra fine, micro fine
7940 siaair	Disc	800 – 4000
7240 siacarat	Disc	500 – 3000
1950 siaspeed	Disc, Strip	800 – 1500



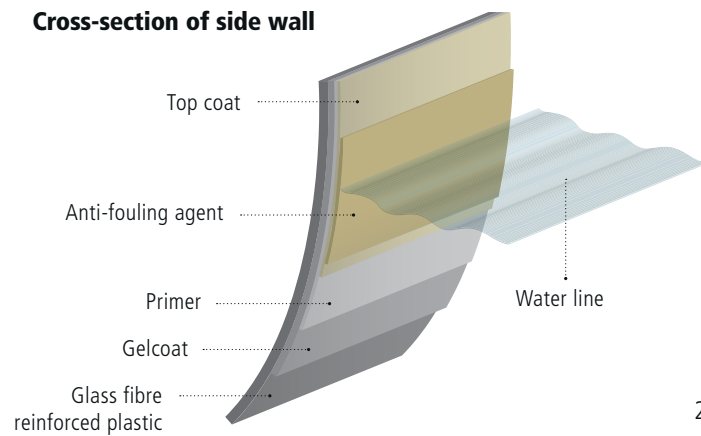
Polishing the negative mould

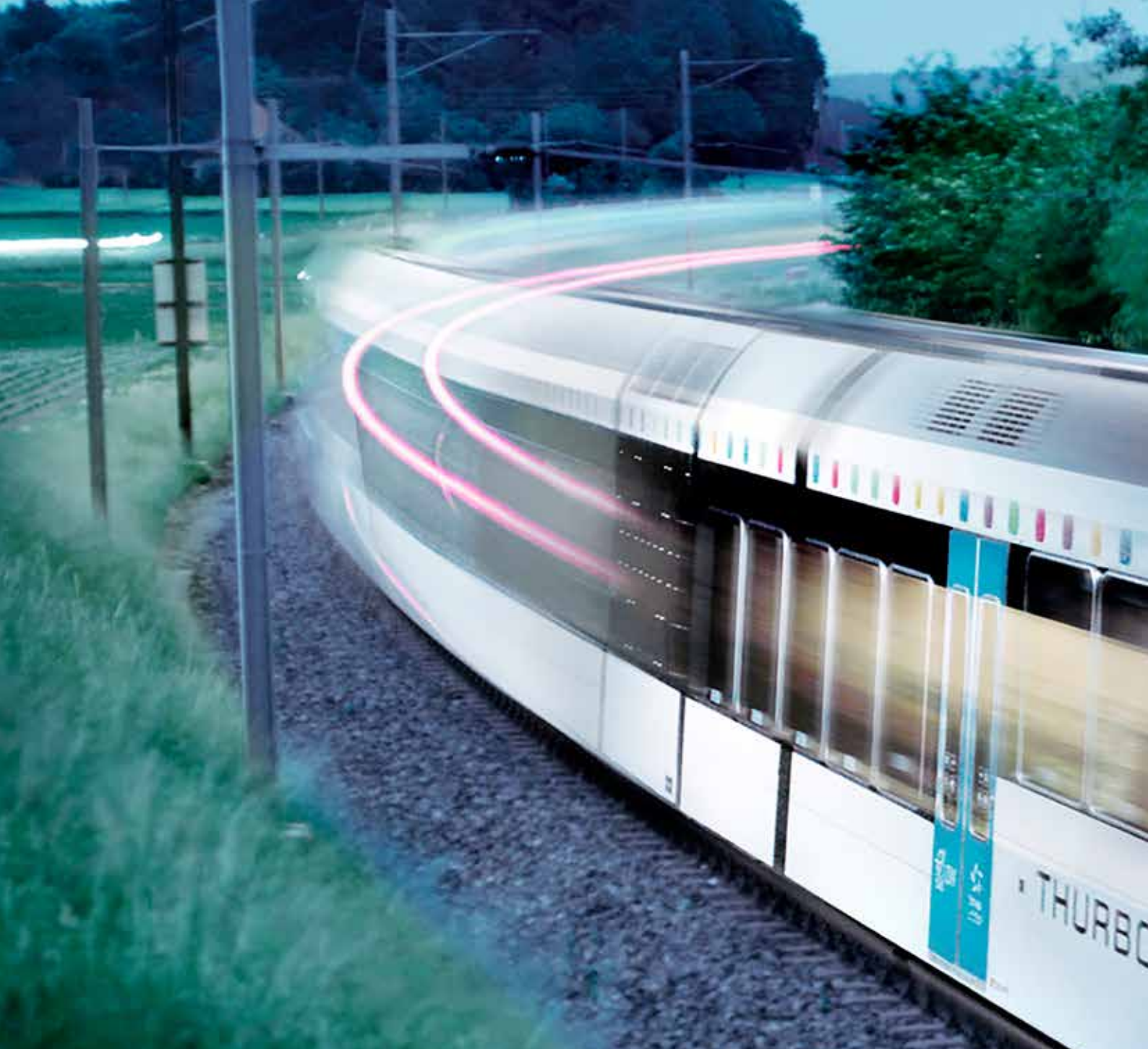
siachrome polishing system





Cross-section of side wall







Rail

For its rail business, the transportation industry is counting on new possibilities to reduce energy consumption and is reducing air resistance to improve aerodynamics and optimise costs – finished by sia Abrasives.



A

Deburring edges

4819 siaron 8	Fibre disc	36 – 60
4700 siaral 8	Fibre disc	36 – 60



B

Keying

1950 siaspeed	Disc, Strip	80 – 180
5550 siaprime	Disc, Strip	80 – 180
7900 sianet	Disc, Strip	80 – 180
7500 sianet CER	Disc, Strip	80 – 180



C

Shaping and flattening bodyfiller

1950 siaspeed	Disc, Strip	60 – 320
5550 siaprime	Disc, Strip	60 – 180
7900 sianet	Disc, Strip	180 – 320
7500 sianet CER	Disc, Strip	180 – 320



D

Fine sanding primer filler

1950 siaspeed	Disc	240 – 600
7900 sianet	Disc	180 – 220
7500 sianet CER	Disc	180 – 220



E

Fine sanding edges and curves

1950 siaspeed	siasoft strip	180 – 500
7970 siasponge soft	Strip	super fine, ultra fine, micro fine
7972 siasponge soft	Strip	super fine, ultra fine, micro fine



F

Removal of dust inclusions, paint runs and orange-peel effect

1913 siawat	Daisy disc, Sheet	1200 – 2500
1950 siaspeed	Disc	1500



G

Microfinishing prior to polishing

7940 siaair	Disc	2000 – 4000
7240 siacarar	Disc	2000 – 3000



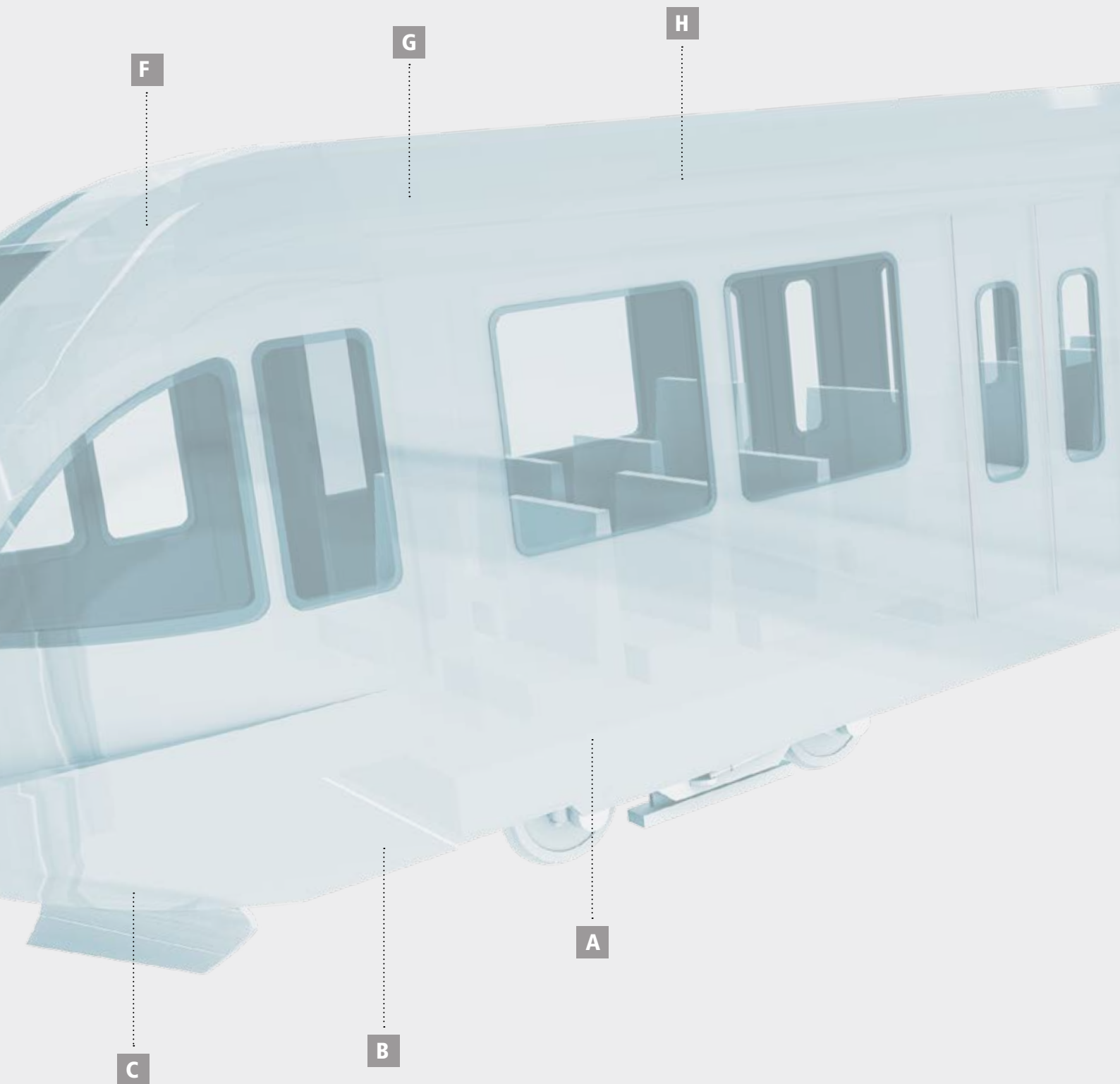
H

Polishing the surface siachrome polishing system

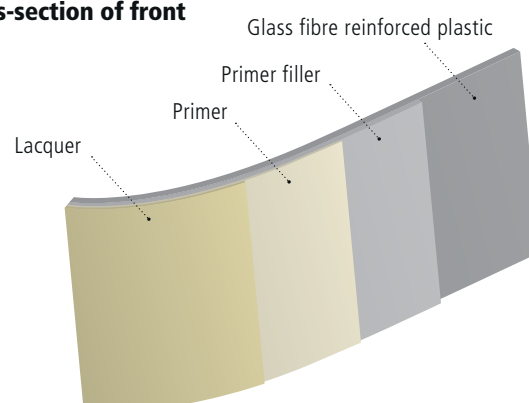


E

D



Cross-section of front







Truck / Bus

Rising energy costs are forcing a rethink in the industry, making the trend towards increasingly lightweight vehicles and vehicle components a necessity. The truck and bus industry is therefore turning more and more to modern materials such as fibre-reinforced composites in order to build vehicles with exceptional combinations of properties.



Sanding off weld seams and burrs

4961 sialoX Fibre disc 36 – 60



Sanding out

1950 siaspeed Disc 40 – 120
7900 sianet Disc 80 – 180
7500 sianet CER Disc 80 – 180



Shaping and flatting bodyfiller

1950 siaspeed Disc, Strip 180 – 320
7900 sianet Disc, Strip 180 – 320
7500 sianet CER Disc, Strip 180 – 320



Flatting and fine sanding primer filler

1950 siaspeed Disc, Strip 280 – 360
7900 sianet Disc, Strip 180 – 320
7500 sianet CER Disc, Strip 180 – 320



Fine sanding edges and curves

1950 siaspeed siasoft, Strip 320 – 400
7970 siasponge soft Strip medium, fine, super fine
7972 siasponge soft Strip medium, fine, super fine



Removal of dust inclusions, paint runs and orange-peel effect

1913 siawat Daisy disc, Sheet 1200 – 2500
1950 siaspeed Disc 1500



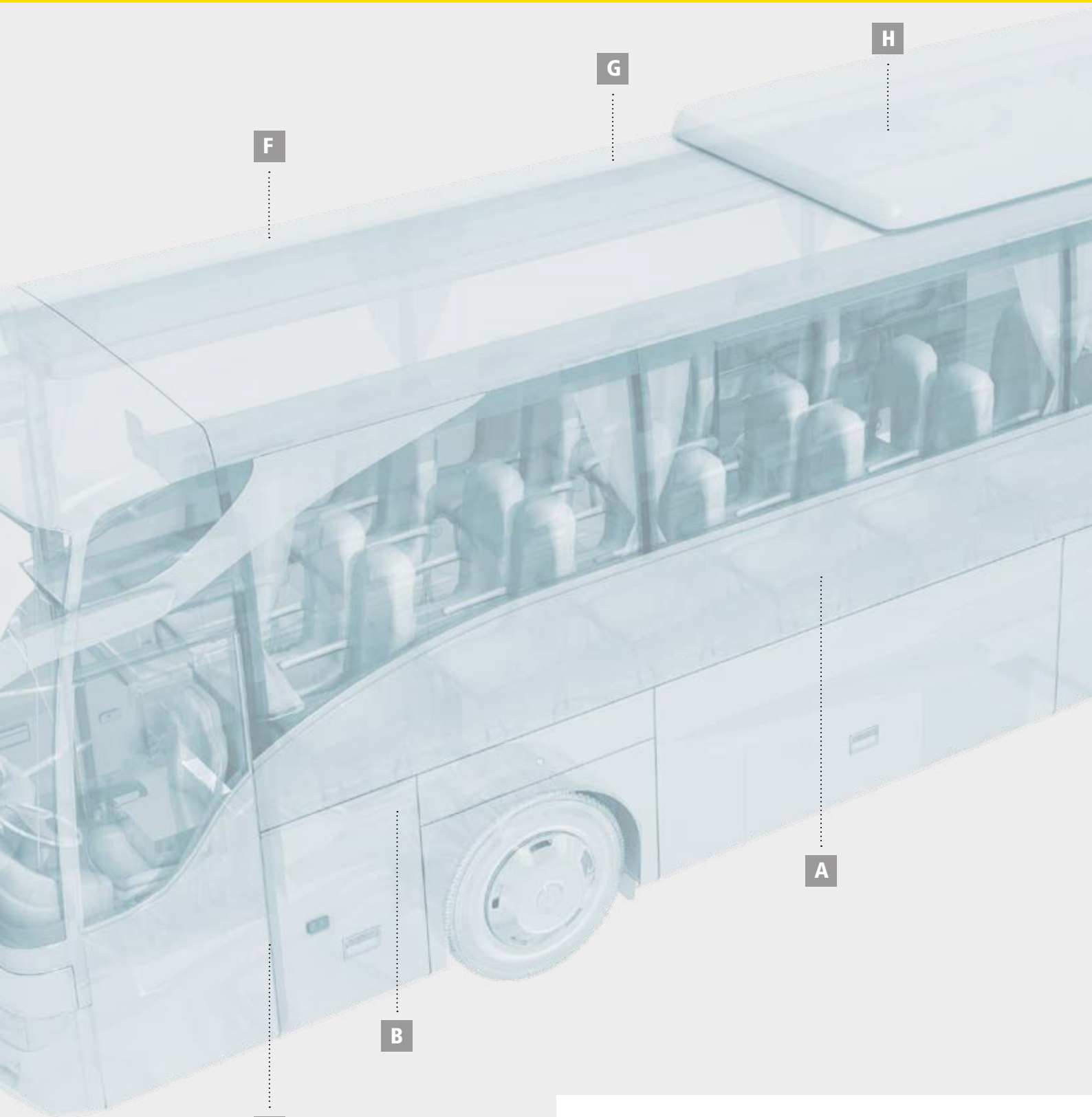
Microfinishing prior to polishing

7940 siaair Disc 2000 – 4000
7240 siacarar Disc 2000 – 3000

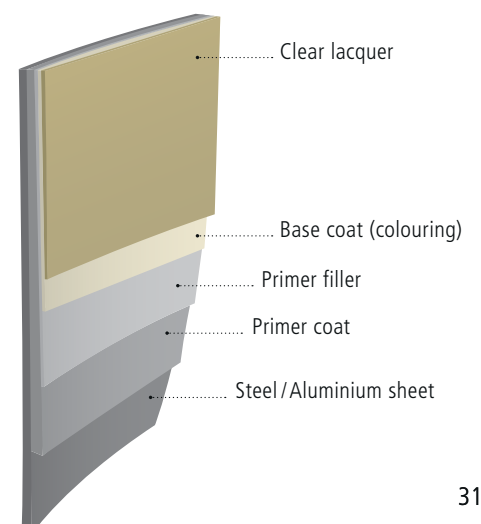


Polishing the surface siachrome polishing system





Cross-section of front













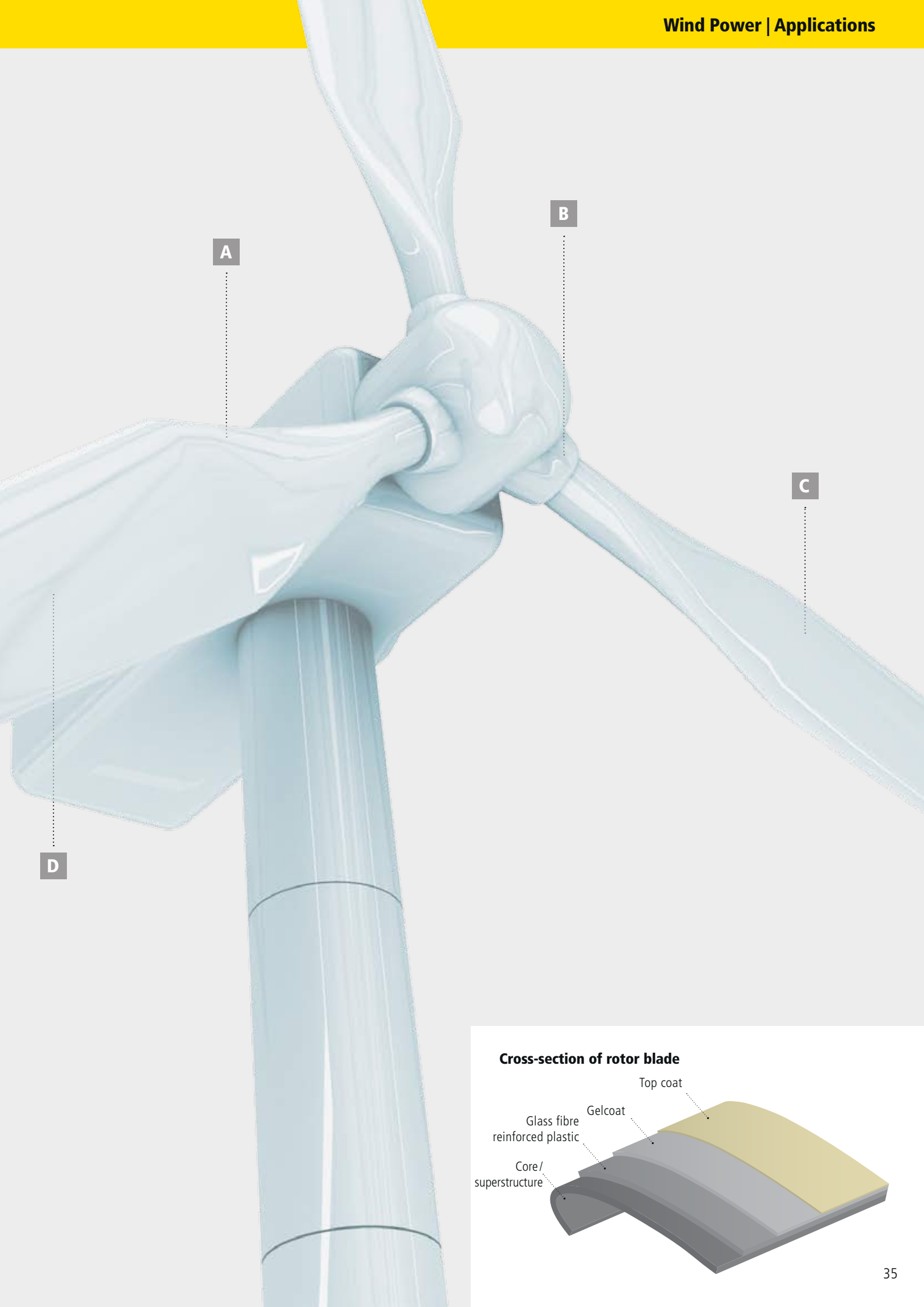
Wind Power

The wind power industry is built on future-oriented technologies: fibre-reinforced composites with the optimum sanding finish increase energy yield and efficiency – finished by sia Abrasives.

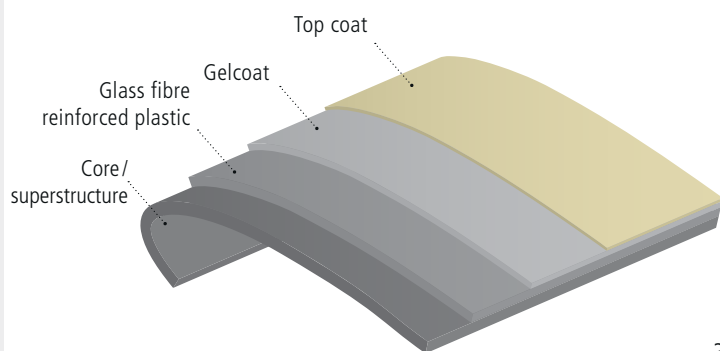
A 	Sanding edges after cutting 1815 siatop Disc 40 – 120
B 	Deburring, adjusting drilled holes 2824 siamet Spiral belt 36 – 150
C 	Shaping and flatting bodyfiller 1950 siaspeed Disc 80 – 180 5550 siaprime Disc 80 – 180 7900 sianet Disc 80 – 120 7500 sianet CER Disc 80 – 120
D 	Sanding pore filler 1950 siaspeed Disc 120 – 240 5550 siaprime Disc 120 – 240
E 	Removing release agent, keying for adhesion 1950 siaspeed Disc 80 – 120 5550 siaprime Disc 80 – 120 7900 sianet Disc 80 – 120 7500 sianet CER Disc 80 – 120
F 	Sanding gelcoat 1950 siaspeed Disc 120 – 320 5550 siaprime Disc 120 – 320 7900 sianet Disc 120 – 320 7500 sianet CER Disc 120 – 320

F

E



Cross-section of rotor blade







Components

A wide variety of components, e.g. panelling, spoilers, bumpers or small parts for the automotive, bus and truck industries and also for trains, boats or aircraft, are given the final touch with high-performance products from sia Abrasives.



Deburring

6924 siamet hd	siafix	coarse, medium
2820 siamet	siafix	36 – 120



Deburring

5550 siaprime	Disc	120 – 180
1950 siaspeed	Disc	120 – 240



Keying new components

1950 siaspeed	Disc	180 – 320
7900 sianet	Disc	180 – 320
7500 sianet CER	Disc	180 – 320



Fine sanding primer filler

1950 siaspeed	Disc	280 – 500
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Sanding primer filler in edge zones in hard-to-reach areas

7970 siasponge soft	Strip	medium, fine, super fine
7972 siasponge soft	Strip	medium, fine, super fine
1950 siaspeed	siasoft, Strip	240 – 600



Removal of dust inclusions, paint runs and orange-peel effect

1913 siawat	Daisy disc, Sheet	1200 – 2500
1950 siaspeed	Disc	1500



Microfinishing prior to polishing

7940 siaair	Disc	2000 – 4000
7240 siacarar	Disc	2000 – 3000



Polishing the surface

siachrome polishing system





A

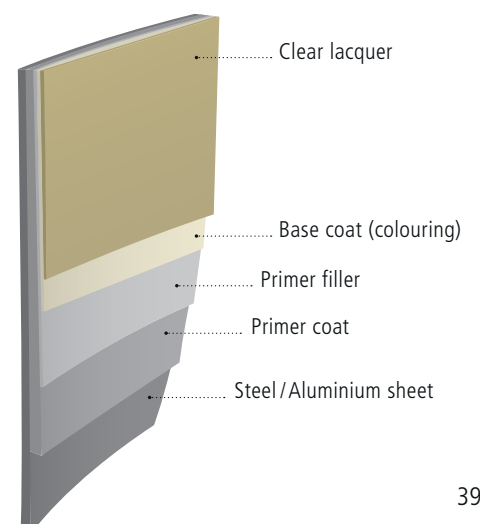
B

C

D

E

Cross-section of front

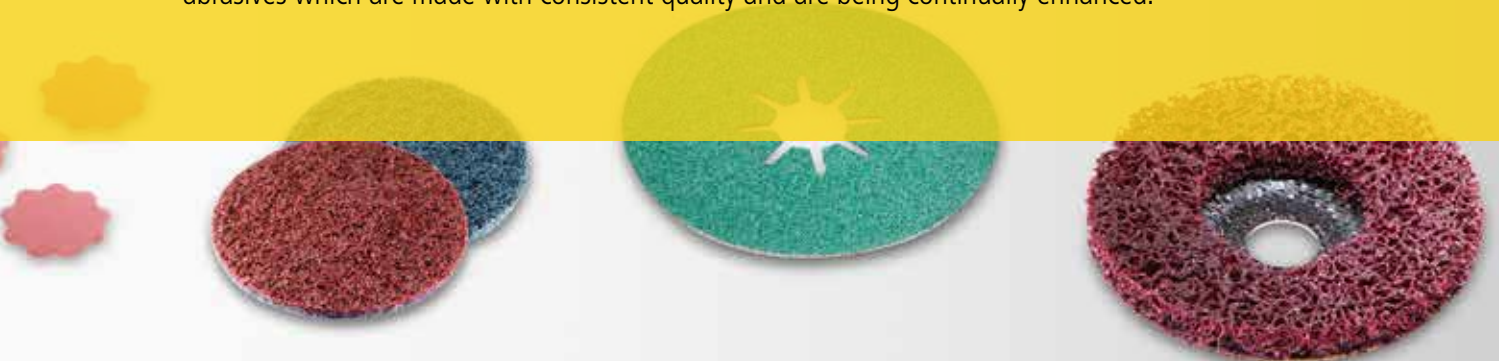






Products

Abrasives from sia Abrasives excel due to first-class raw materials, state-of-the-art manufacturing and conversion facilities, and sophisticated production technologies. This results in high-quality abrasives which are made with consistent quality and are being continually enhanced.





	Materials									Conversion forms						Application steps							
	Paints	Primer filler	Gelcoats	Primers	Plastics	Lacquers	Metals	Bodyfiller	Composites	Rolls	Sheets	Strips	Delta + Polygons	Discs	Pads	Sanding off	Sanding out	Flatting	Fine sanding	Keying	Scuffing	Lacquer retouching	
1713 siawat	▼	▼		▼	▼	▼	▼	▼		▼	▼	▼		▼		▼	▼	▼	▼			▼	
1913 siawat	▼	▼		▼	▼	▼		▼		▼	▼	▼		▼		▼	▼	▼	▼			▼	
1948 siaflex	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		▼	▼	▼	▼	▼		▼	
1950 siaspeed	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		▼	▼	▼		▼	▼	▼	▼	▼			
1950 siaspeed ultrafine grit	▼		▼		▼	▼				▼		▼		▼					▼		▼		
2820 siamet							▼		▼	▼		▼		▼		▼							
2824 siamet							▼		▼	▼				▼		▼							
4700 siaral 8							▼		▼					▼		▼							
4819 siaron 8							▼							▼		▼							
4961 sialoX					▼		▼		▼					▼		▼							
5550 siaprime	▼			▼	▼	▼	▼	▼	▼			▼	▼	▼		▼	▼	▼		▼			
6120 siafleece	▼	▼	▼	▼	▼	▼	▼		▼	▼	▼	▼		▼					▼	▼			
6711 siafleece flex	▼	▼		▼	▼	▼	▼		▼			▼								▼			
6924 siamet hd	▼			▼		▼	▼		▼					▼		▼							
7240 siacarat					▼	▼			▼					▼						▼	▼		
7241 siacarbon			▼	▼	▼	▼	▼		▼			▼		▼					▼				
7500 sianet CER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		▼	▼	▼		▼	▼	▼	▼				
7900 sianet	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		▼	▼	▼		▼	▼	▼	▼				
7940 siaair	▼	▼	▼		▼	▼			▼			▼		▼				▼		▼	▼		
7970 siasponge soft	▼	▼		▼	▼	▼			▼						▼			▼	▼	▼	▼		
7972 siasponge soft	▼	▼		▼	▼	▼			▼						▼			▼	▼	▼	▼		



1713 siawat – For the highest-performance wet sanding



Product profile

Grit type:	Silicon carbide
Grit range:	80 – 2500
Backing:	c-wt paper
Coating:	Electrostatic
Bonding:	Resin over resin

The 1713 siawat silicon carbide series makes all the difference when it comes to sanding coatings, impurities or unevenness in edge zones and when fine sanding primer fillers, glass, composite materials and stone.

Advantages

- High stock removal with good finish
- Long lifetime
- Powerful silicon carbide grit for use on hard materials
- Highly adaptable to contours and shapes

Applications

- Flatting bodyfiller and primer filler
- Fine sanding primer filler, glass, composite materials and stone
- Keying old and new lacquers
- Removing paint runs

Materials

Paint, primer filler, primer coat, epoxy primer coat, plastic, old lacquer, lacquer, bodyfiller, aluminium

Application



1913 siawat – The first choice for first-class wet sanding results



Product profile

Grit type:	Semi-friable aluminium oxide	P60 – P1200
	Silicon carbide	P1500 – P2500
Grit range:	60 – 2500	
Backing:	c-wt paper	P800 – P2500
	d-wt paper	P60 – P600
Coating:	Closed	
Bonding:	Resin over resin	

As a leading wet use abrasive, the 1913 siawat aluminium oxide series has been producing outstanding results for years thanks to such outstanding properties as high stock removal rates, optimal water resistance, long life and flexibility.

Advantages

- Very high removal rate
- Extremely long lifetime
- Highly adaptable to contours and shapes
- The market-leading wet abrasive for years
- Highly water-resistant
- Can be used wet or dry

Applications

- Flatting bodyfiller and primer filler
- Fine sanding primer filler
- Keying old and new lacquers
- Removal of paint runs, orange-peel effect and dust inclusions
- Sanding off coatings and impurities
- Sanding out unevenness at the edges of repaired surfaces

Materials

Paint, primer filler, primer coat, epoxy primer coat, old lacquer, lacquer, bodyfiller, plastic

Application



1948 siaflex – Flexible and versatile



Product profile

Grit type:	Blue-fired aluminium oxide/white aluminium oxide	
Grit range:	40; 60 – 1500	
Backing:	Fibre-reinforced latex paper	
Coating:	Electrostatic	P40 – P180
	Electrostatic open	P220 – P600
	Electrostatic	P800 – P1500
Bonding:	Resin over resin	
Coating:	Stearate	P180 – P800

As an all-round series for wet and dry sanding, 1948 siaflex produces outstanding results in all available grits and in a variety of automotive applications.

Advantages

- High stock removal with good finish
- Highly flexible and adaptable to contours
- Long lifetime
- Suitable for general use in dry and wet sanding applications

Materials

Paint, primer filler, bodyfiller, lacquer, old lacquer, primer coat, epoxy primer coat, cathodic dip primer coat, plastic, acrylic glass (Plexiglass), gelcoat polyester, glass fibre reinforced plastic (GRP), composite material, aluminium, steel

Applications

- Sanding off coatings and impurities
- Sanding out unevenness at the edges of repaired surfaces
- Flattening bodyfiller and primer filler
- Fine sanding primer filler

Application



1950 siaspeed – For a perfect finish at full speed



Product profile

Grit type:	Mixed grit with ceramic content	40 – 80
	Semi-friable aluminium oxide / blue-fired	P100 – P600
Grit range:	40; 60 – 600	
Backing:	Paper	
Coating:	Electrostatic open	P220 – P600
	Electrostatic	40 – P180
Bonding:	Resin over resin	
Coating:	Stearate	from 80

The versatile all-round product 1950 siaspeed impresses with its high removal rate, perfect surface quality and long lifetime – e.g. when working on bodyfiller, primer filler, lacquer and paint.

Advantages

- Very high stock removal rates and excellent finish
- Performance-enhancing grit mix with ceramic corundum in 40 – 80 grit range
- Minimal clogging thanks to open coating in 220 – 600 grit range
- Extremely long lifetime

Materials

Paint, primer filler, bodyfiller, lacquer, old lacquer, primer coat, epoxy primer coat, cathodic dip primer coat, plastic, acrylic glass (Plexiglass), gelcoat polyester, glass fibre reinforced plastic (GRP)

Applications

- Sanding out unevenness at the edges of repaired surfaces
- Flattening bodyfiller and primer filler
- Fine sanding primer filler
- Keying old and new lacquers

Application



1950 siaspeed ultrafine grit – For a perfect finish at full speed



Product profile

Grit type:	Aluminium oxide
Grit range:	800 – 1500
Backing:	Film
Coating:	Special process
Bonding:	Resin over resin
Coating:	Stearate

Whether you are scuffing old or new lacquer, blending, or removing dust inclusions and orange-peel effect – 1950 siaspeed ultrafine grit handles all demanding surfaces with its fine grit range.

Advantages

- Very high stock removal rates and excellent finish
- Minimal clogging thanks to new stearate coating concept
- Extremely long lifetime
- Film backing allows precise and uniform scratch depths

Materials

Paint, lacquer, old lacquer, plastic, acrylic glass (Plexiglass), gelcoat polyester

Applications

- Keying old and new lacquers
- Removal of orange-peel effect and dust inclusions
- Preparation for polishing on high-gloss surfaces

Application



2820 siamet – The all-round sanding belt for non-alloy steel and non-ferrous metals



Product profile

Grit type:	Zirconia alumina
Grit range:	24; 36 – 320; 400
Backing:	y-wt cloth
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive

As a specialist product designed for dry sanding and high stock removal rates as well as excellent edge stability and tear resistance, 2820 siamet is suitable for a wide variety of jobs ranging from removal of rust or paint to preparation for welding on non-alloy steels or non-ferrous metals.

Advantages

- High edge stability, high tear resistance
- High performance for all metals
- Aggressive cut

Materials

Body panels, composite material

Applications

- Removal of paint, rust and discolouration
- Weld preparation
- Deburring

Application



2824 siamet – For market-leading performance in steel applications



Product profile

Grit type:	Zirconia alumina
Grit range:	36 – 80; 120 – 150
Backing:	x-wt cloth
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive

Designed universally for the treatment of non-alloy or low-alloy steels, the 2824 siamet flap wheel with zirconia alumina and a robust cloth backing provides a high removal rate and long lifetime. Another advantage is the consistent surface quality until the abrasive has been completely used up.

Advantages

- High performance due to zirconia alumina abrasive grit
- Consistent surface quality until the abrasive is completely worn
- Cost reduction thanks to long lifetime

Materials

Non-alloy / low-alloy steel

Applications

- Weld preparation
- Removing discolouration
- Stock removal
- Deburring

Application



4700 siaral 8 – Powerful performance for finishing



Product profile

Grit type:	Silicon carbide
Grit range:	16; 24; 36 – 150; 220; 320
Backing:	Fibre
Coating:	Closed
Bonding:	Resin over resin

The silicon carbide fibre discs of the 4700 siaral 8 special series ensure high stock removal rates in coarse to fine sanding applications and are ideal for a variety of applications involving hard-to-grind metals as well as stone.

Advantages

- High removal rate
- Sturdy fibre backing
- Wide range of grits available for coarse to fine grinding

Materials

Other hard-to-grind metal

Applications

- Stock removal
- Keying glass fibre reinforced plastics (GRP)
- Deburring

Application



4819 siaron 8 – The specialist abrasive for non-alloy steels and non-ferrous metals



Product profile

Grit type:	Zirconia alumina
Grit range:	24; 36 – 120
Backing:	Fibre
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive

Specially designed for applications involving steel and non-ferrous metals, 4819 siaron 8 fibre discs achieve, among other things, high stock removal rates and have a long life.

Advantages

- High removal rate
- Long lifetime
- Versatile

Materials

Non-alloy / low-alloy steel, non-ferrous metal

Applications

- Removal of rust and discolouration
- Weld preparation
- Deburring

Application



4961 sialoX – The all-rounder for highly effective material removal



Product profile

Grit type:	Aluminium oxide
Grit range:	16; 24; 36 – 120
Backing:	Fibre
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive

The 4961 sialoX fibre disc series with its excellent price/performance ratio is suitable for all non-alloy and low-alloy steels as well as non-ferrous metals.

Advantages

- A versatile all-round product
- Excellent price/performance ratio

Materials

Steel, composite material, glass fibre reinforced plastic (GRP)

Applications

- Removing rust
- Removing discolouration
- Deburring

Application



5550 siaprime – Premium quality which saves time and money



Product profile

Grit type:	Grit mixture (with ceramic)
Grit range:	40; 60 – 180
Backing:	Polyester film
Coating:	Electrostatic open
Bonding:	Resin over resin

5550 siaprime has been developed especially for industrial applications and repair activities. It sets standards in performance and lifetime – ensuring that you achieve your goal in a fast, cost-saving manner.

Advantages

- Very high removal rate
- Performance-enhancing grit mix with ceramic corundum
- Film backing for exceptional edge stability and tear resistance
- High level of flexibility guarantees trouble-free sanding at corners and edges

Materials

Paint, bodyfiller, primer coat, epoxy primer coat, old lacquer, aluminium, steel, glass fibre reinforced plastic (GRP), composite material

Applications

- Sanding off coatings and impurities
- Sanding out unevenness at the edges of repaired surfaces
- Flattening bodyfiller and composite materials
- Keying coatings, steel, aluminium, plastics and solid surface materials

Application



6120 sialfleece – For even surface finishes in manual and portable machine sanding



Product profile

Grit type:	Aluminium oxide Silicon carbide
Grade:	very fine, ultra fine, micro fine
Backing:	Nonwoven
Coating:	Mechanical
Bonding:	Resin over resin

6120 sialfleece can be used for dry and wet sanding and impresses due to its high conformability, consistent performance over the entire lifetime, low tendency to clog, and consistently high surface quality.

Advantages

- Highly flexible, ideal for hard to reach areas
- Minimal risk of sanding through on edges
- Long lifetime thanks to dense grit coating
- Can be used wet or dry
- For manual or machine use
- High tearing resistance
- Low clogging

Materials

Paint, primer filler, gelcoat, primer coat, plastic, lacquer, metal, composite material

Applications

- Fine sanding primer fillers (with dual action sander)
- Scuffing lacquers
- Producing a matt finish for blending
- Scuffing new components and factory primers

Application



6711 siafleece flex – Maximum flexibility for ideal finishing results



Product profile

Grit type:	Aluminium oxide	very fine
	Silicon carbide	ultra fine
Grade:	Very fine; ultra fine	
Backing:	Nonwoven	
Coating:	Mechanical	
Bonding:	Resin over resin	

6711 siafleece flex has been developed for keying especially hard-to-reach areas. It is exceptionally flexible and demonstrates its capabilities in applications such as scuffing new parts, factory primers and lacquers prior to final lacquering.

Advantages

- Highly flexible and adaptable to contours
- Consistent scratch pattern due to improved grain consistency
- Long lifetime
- Can be used wet or dry

Materials

Paint, primer filler, primer coat, plastic, lacquer, metal, composite material

Applications

- Scuffing new components and factory primers
- Scuffing in hard-to-reach areas
- Scuffing lacquers prior to final lacquering

Application



6924 siamet hd – High-performance discs for surface finishing of steels



Product profile

Grit type:	Aluminium oxide
Grade:	extra coarse; coarse; medium
Backing:	Nonwoven
Coating:	Mechanical
Bonding:	Resin over resin

The high-performance discs in the 6924 siamet hd series offer an exceptional removal rate on hard materials and also impress with their exceptionally long lifetime. An excellent, even finish is yet another advantage.

Advantages

- Major time-saving thanks to highest aggressiveness and highest stock removal rates
- Excellent performance on hard materials
- More durable so more resistant on edges
- Excellent and consistent finish over a long period of time

Materials

Non-alloy / low-alloy steel, high-alloy steel, other hard-to-grind metal, stainless steel (inox), ferrous metal, non-ferrous metals, steel

Applications

- Blending
- Stock removal
- Light deburring
- Removal of paint, rust, polishing scratches and discolouration

Application



7240 siacarat – For sanding scratch-resistant surfaces



Product profile

Grit type:	Diamond
Grit range:	500; 1000; 2000; 3000
Backing:	Knitted fabric with foam backing
Coating:	Special process
Bonding:	Resin over resin

Thanks to the coating of the abrasive with diamond abrasive minerals combined with the pressure-damping foam backing, 7240 siacarat is an ideal solution for wet sanding of hard materials in the lacquers, composites and solid surface materials segments.

Advantages

- Very high stock removal rates and excellent finish
- Low clogging thanks to damp sanding
- Lasts up to 40 times longer than conventional abrasives
- Highly adaptable to contours, curves and profiles
- Pressure-equalising foam gives perfect surface finish
- Waterproof and washable
- Resistant to silicon remover

Applications

- Scuffing scratch-resistant lacquer systems and composite materials
- Producing a matt finish for blending
- Preparation for polishing on high-gloss surfaces

Application



Materials

Scratch-resistant lacquer, composite material, acrylic glass (Plexiglass), plastic

7241 siacarbon – The harder, the more efficient



Product profile

Grit type:	Diamond
Grit range:	80; 120; 180; 240; 320; 500
Backing:	Cloth
Coating:	Special process
Bonding:	Resin over resin

7241 siacarbon is ideal for wet and dry machine sanding of hard surfaces: for unique results when keying scratch-resistant lacquers, composite materials, new components, factory primers and aluminium with a minimum of abrasives consumption.

Advantages

- Excellent performance on hard materials
- Extremely long lifetime thanks to state-of-the-art diamond technology
- Full-surface dust extraction
- No dependence on hole system
- Increased efficiency due to measurable time-saving
- Constant removal rates
- Minimal risk of sanding through on edges

Applications

- Keying scratch-resistant lacquer systems and composite materials
- Keying new components and factory primers
- Keying aluminium

Application



Materials

Cathodic dip primer coat, epoxy primer coat, scratch-resistant lacquer, aluminium, plastic, gelcoat polyester

7500 sianet CER – The powerful net-backed abrasive with ceramic grit



Product profile

Grit type:	Ceramic aluminium oxide
Grit range:	80 – 240; 320; 400
Backing:	Knitted fabric
Coating:	Electrostatic
Bonding:	Resin over resin

The special net structure of 7500 sianet CER enables dust-free sanding with the highest abrasive performance – the ceramic abrasive grain provides the highest removal rate and longest lifetime.

Advantages

- Performance-enhancing ceramic aluminium oxide
- Best dust extraction rates
- Very high removal rate
- Minimal clogging
- Extremely long lifetime
- High tear resistance thanks to sturdy net backing

Materials

Paint, primer filler, bodyfiller, lacquer, old lacquer, primer coat, epoxy primer coat, cathodic dip primer coat, plastic, acrylic glass (Plexiglass), gelcoat polyester, glass fibre reinforced plastic (GRP), composite material, aluminium, steel

Applications

- Sanding off coatings and impurities
- Fine sanding primer filler
- Flatting bodyfiller and primer filler
- Sanding out unevenness at the edges of bodyfiller and primer filler

Application



7900 sianet – The powerful net-backed abrasive



Product profile

Grit type:	Blue-fired aluminium oxide/white aluminium oxide
Grit range:	80 – 240; 320; 400
Backing:	Knitted fabric
Coating:	Electrostatic
Bonding:	Resin over resin

The special net structure of 7900 sianet enables dust-free sanding with the highest abrasive performance.

Advantages

- Best dust extraction rates
- High removal rate
- Minimal clogging
- Long lifetime
- No dependence on hole system
- High tear resistance thanks to sturdy net backing

Materials

Paint, primer filler, bodyfiller, lacquer, old lacquer, primer coat, epoxy primer coat, cathodic dip primer coat, plastic, acrylic glass (Plexiglass), gelcoat polyester, glass fibre reinforced plastic (GRP), composite material, aluminium, steel

Applications

- Sanding off coatings and impurities
- Fine sanding primer filler
- Flatting bodyfiller and primer filler
- Sanding out unevenness at the edges of bodyfiller and primer filler

Application



7940 siaair – For a perfect finish



Product profile

Grit type:	Aluminium oxide
Grit range:	240; 360; 500 – 1000; 1500 – 2000; 3000 – 4000
Backing:	Knitted fabric with foam backing
Coating:	Special process
Bonding:	Resin over resin

The clever technology of 7940 siaair is the key to a perfect finish in wet and dry sanding applications – whether it's scuffing, fine sanding or preparation for polishing.

Advantages

- High stock removal rates and excellent finish
- Low clogging thanks to damp sanding
- Highly adaptable to contours, curves and profiles
- Pressure-equalising foam gives perfect surface finish

Materials

Paint, lacquer, old lacquer, gelcoat polyester, plastic, acrylic glass (Plexiglass), primer filler, composite material

Applications

- Matt finishing conventional old and new lacquers as well as composite materials
- Fine sanding primer filler in hard-to-reach areas
- Producing a matt finish for blending
- Preparation for polishing on high-gloss surfaces

Application



7970 siasponge soft – For wet sanding in hard-to-reach areas



Product profile

Grit type:	Aluminium oxide
Grade:	medium; fine; super fine; ultra fine; micro fine
Backing:	Foam (open structure)
Coating:	Mechanical
Bonding:	Elastic binder
Coating:	1-sided

Applications such as keying, fine sanding, scuffing and polishing preparation are especially easy to do using 7970 siasponge soft. Its high flexibility ensures that it adapts perfectly to contours, curves and profiles to deliver a high-quality, consistent sanding pattern.

Advantages

- Can be used wet or dry
- Colour coded for easy identification
- Low clogging thanks to 3D properties imparted by foam, binder system and grit
- No risk of sanding through thanks to pressure-equalising foam

Materials

Paint, primer filler, primer coat, plastic, old lacquer, composite material

Applications

- Keying conventional old and new lacquers, primer filler and paint
- Fine sanding primer filler in hard-to-reach areas
- Scuffing lacquers
- Intermediate sanding of lacquers
- Keying plastics

Application



7972 siasponge soft – For dry sanding in hard-to-reach areas



Product profile

Grit type:	Aluminium oxide
Grade:	medium; fine; super fine; ultra fine; micro fine
Backing:	Foam (closed structure)
Coating:	Mechanical
Bonding:	Elastic binder
Coating:	1-sided

Its closed foam structure makes 7972 siasponge soft ideal for all dry sanding applications. Be it keying, fine sanding, scuffing or polishing preparation: it is highly adaptable to contours, curves and profiles, enabling an optimum sanding pattern to be achieved every time without changing the shape of the surface.

Advantages

- Colour coded for easy identification
- Low clogging thanks to 3D properties imparted by foam, binder system and grit
- Minimal risk of sanding through from high contact pressure
- No risk of sanding through thanks to pressure-equalising foam

Materials

Old lacquer, primer coat, plastic, paint, primer filler, composite material

Applications

- Fine sanding primer filler in hard-to-reach areas
- Scuffing lacquers
- Keying wood, composite materials, paint, lacquer and primer filler
- Intermediate sanding of lacquers
- Keying conventional old and new varnishes, primer filler and paints

Application



siachrome



Product profile

With the siachrome polishing system, sia Abrasives offers an efficient range of products that can be used to reliably carry out all stages of top coat preparation.

Advantages

- Efficient and process-reliable polishing due to colour concept
- Excellent for use on standard and ceramic paints
- Suitable for soft or hard lacquers
- Silicone and solvent free, water-based
- Usable on all polishable surfaces
- Can be used without coolant
- No discolouration of plastic parts

Materials

Lacquer, paint, gelcoat polyester, acrylic glass (Plexiglass), old lacquer, scratch-resistant lacquer, solid surface material

Applications

- Removal of polishing scratches
- Removal of sanding defects from hard lacquers
- Removal of holograms

Application



Standard hand sanding blocks



Product profile

Compatible, fully integrated system including files, blocks with suction hose and fasteners. The complete range of hand sanding tools is noted for its low weight combined with anatomically shaped handles for comfortable sanding. Direct and even transfer of pressure to the workpiece at all times.

Advantages

- Suitable for standard, multi-hole and net-type abrasives
- Multi-hole air chamber backing provides full surface dust extraction and ensures a dust-free working environment

Materials

Bodyfiller, primer filler, solid surface material, wood-based material

Applications

- Flattening bodyfiller
- Flattening primer filler
- Fine sanding bodyfiller
- Fine sanding primer filler

Application



Flexible hand sanding tools



Product profile

Compatible, fully integrated system including files, blocks with suction hose and fasteners. The complete range of hand sanding tools is noted for its low weight combined with anatomically shaped handles for comfortable sanding. Direct and even transfer of pressure to the workpiece at all times.

Advantages

- Adapts flexibly to surface contours
- Concave / convex shape is finely adjustable via an adjusting wheel
- Multi-hole air chamber backing provides full surface dust extraction and ensures a dust-free working environment
- Suitable for standard, multi-hole and net-type abrasives

Materials

Bodyfiller, primer filler, solid surface material, wood-based material

Applications

- Fine sanding of convex and concave contours on a variety of materials

Application





Your Key to a Perfect Surface

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