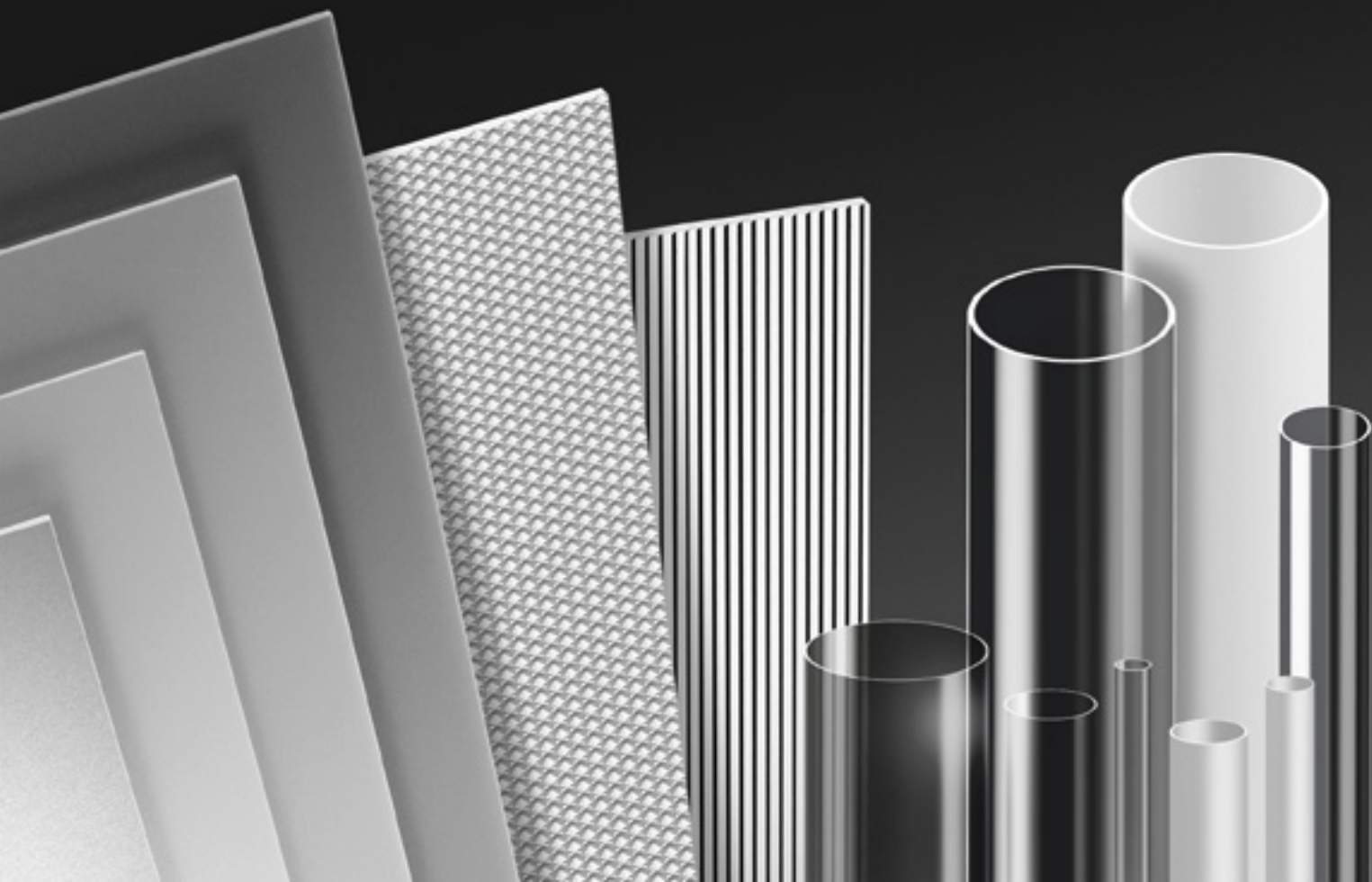


# BWF Profiles

Our plastic products for you in stock



# BWF Profiles

## Superior plastic products

BWF Profiles is the market leader in Europe and Asia with regards to the extrusion of high-quality thermoplastic material. We attribute this to the highest standards of innovation and market support for you as partners.

For more than 60 years, we have offered competent support to our customers in the development and production of plastic profiles, tubes, sheets, and optical foils, completing the portfolio with high-quality thermoformed or injection-moulded parts.

Innovation is what motivates us – as market leaders we are constantly challenging ourselves. We rely on continuous innovation and development within our highly skilled team.

Whilst developing customized solutions with us, you will not only benefit from many years of experience of our employees, but also from pioneering technologies and entrepreneurial dynamic, ensuring a partnership for sustainable success.

From the creation of prototypes, our in-house tooling facility to our modern colour laboratory and a wide range of processing options onto our exceptional quality assurance, BWF Profiles offers the complete support package.

With an abundance of energy and enthusiasm we jointly develop your plastic product. We consider the inherent properties of different materials, the planned installation, and the required production process. By doing so, we will choose the best possible material and contour for your special application.



# BWF Profiles Stock Program

## Ideal solutions readily available for you

Besides individual plastic products, we offer a **wide range** of plastic sheets and tubes direct from our storage.

BWF Profiles offers a large selection of sheets with a wide variety of photometric properties. Our diverse product range is completed by light-directing, light-diffusing, forward-diffusing, and light-reflecting plastic sheets. Choose from a variety of materials such as polymethylmethacrylate (PMMA), polycarbonate (PC), Acryl-Satiné or Satiné-Blend.

Also plastic tubes in different dimensions and wall thicknesses are available from stock.

They are used in different fields of application. Stored in standard lengths, these plastic tubes can be cut to the desired size.

BWF Profiles uses only high-quality granules from the world's leading premium manufacturers, guaranteeing consistency in material properties and quality.

No matter whether you want your plastic tube or sheet to be cut to a certain size or your product to be prepared for final installation after various processing steps, we provide full service from raw material to final product. Furthermore, we offer you the possibility to individualize your products via pad printing. Finest contours, process reliability and a wide range of colours speak for themselves.

Benefit from the most modern production facilities in Europe and Asia and secure your decisive technological advantage. Our processing service is as varied as the possible applications of your products.

For more information or samples of our plastic products please contact the BWF Profiles Germany sales team.



# Plastic Sheets

## Tailor-made for your application

**We develop light-directing, light-diffusing and forward-diffusing plastic sheets for your individual applications.**

Whether you are aiming for precise light control by using prisms or embossed structures or an optimum light scattering without visible hotspots at highest transmission or defined light accents, we are your competent partner in lighting engineering. But we also focus on developments that consider aesthetics, design, and architectural criteria.

In addition to our stock program, we offer plastic sheets in your desired colour, wall thickness or different materials and production lengths upon purchase of an appropriate quantity. Also, with regards to special fire prevention requirements, we are your partner in choosing and processing the most suitable material.

We accompany you throughout the development process, starting with the concept phase, followed by the prototype production, leading to the ready-to-install product.

Please consider our tolerances (+/-3%) with regards to transmission as stated in the General Processing Recommendations which you can find on [www.bwf-profiles.com](http://www.bwf-profiles.com). These values are an indication only and do not guarantee technical properties.

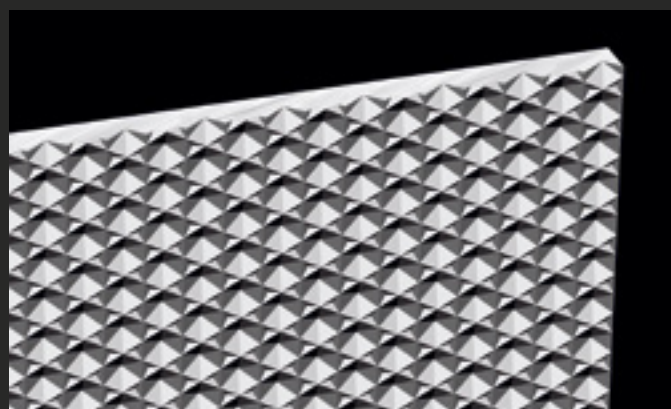


# BWF *diamond*PRISM<sup>®</sup>

## Light-directing plastic sheet with diamond-like light brilliance

The name says it all – The optimum **photometric structure** of the BWF diamondPRISM<sup>®</sup> sheet provides **diamond-like brilliance** and **perfect glare control** while showing a completely new design.

Despite **high-precision edges**, the inverse structure of BWF diamondPRISM<sup>®</sup> **avoids predetermined breaking points** and is also ideal for computer workstations due to excellent glare control and light distribution.



BWF diamondPRISM<sup>®</sup> sheet

### GENERAL INFORMATION

- highly precise, optimum photometric structures
- unique transmission
- perfect glare control
- for lighting purposes UGR < 19

### APPLICATION AREAS

- illumination for workstations
- large-scale ceiling lighting constructions
- long luminaire arrays
- combining sheets with extruded profiles
- overall glare reduction with only one sheet

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH	TRANSMISSION
	mm	mm	mm	%
PMMA clear	2	1350	3050	94,5
PC transparent	2	1000	3050	91
PMMA clear	3	1350	3050	94,5

### DRAWING



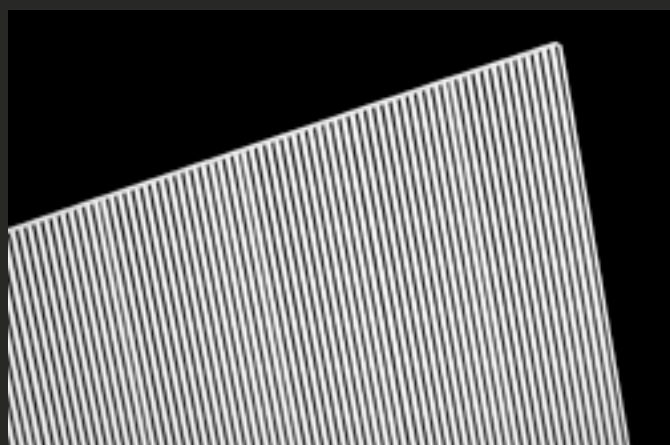


# BWF *linear*PRISM

An all-rounder when it comes to light-directing sheets

Our BWF linearPRISM sheet with high-precision linear prismatic structure offers **excellent glare reduction and light distribution** in longitudinal or transverse direction due to its linear structure.

BWF linearPRISM is the all-rounder when it comes to light-directing sheets and can be used individually or in combination with clear, prismatic or satinated plastic profiles made by BWF Profiles. Additionally, the linearPRISM sheet can be combined with all other prismatic sheets.



BWF linearPRISM sheet

## GENERAL INFORMATION

- highly precise, optimum photometric structures
- for lighting applications up to UGR 16
- excellent glare reduction and light distribution
- unique transmission
- high transparency
- perfect looks in longitudinal or transversal direction due to linear structure
- increased efficiency for existing luminaires

## FIELDS OF APPLICATION

- illumination for computer workstations
- large-scale ceiling light constructions
- lamp cover with a combination of plastic profile and slid-in BWF linearPRISM
- luminaire arrays
- Point of Sales illumination
- high-bay illumination

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH	TRANSMISSION
	mm	mm	mm	%
PMMA clear	2	1525	2200	94

## DRAWING



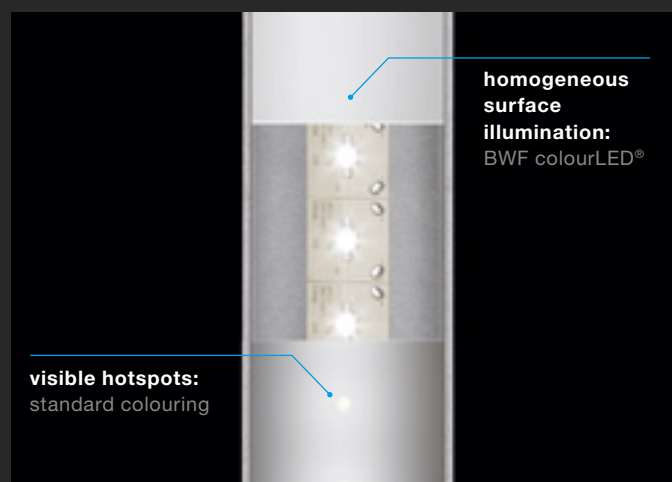
# BWF colourLED®

## Uniform illumination due to optimum light diffusion

With a material recipe developed specifically for **high power LED applications**, BWF colourLED® sheets provide unsurpassed light diffusion for your applications.

Using the BWF colourLED® sheet, very flat, uniformly illuminated, and efficient lighting elements without any hotspots can be easily realized.

The decisive advantage of our BWF colourLED® sheet is that by using it, you can achieve up to 40% more light output compared to standard colouring.



BWF colourLED® sheet

### GENERAL INFORMATION

- excellent light diffusion without visible hotspots
- luminaire arrays without dark spots
- up to 40% more light output

### FIELDS OF APPLICATION

- modern, energy-saving lighting concepts
- realization of very flat, evenly illuminated, and efficient lighting elements
- thermoformed diffusers: as 1mm diffuser sheet installed behind BWF diamondPRISM® or as diffusing layer for BWF sideLIGHT

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH	TRANSMISSION
	mm	mm	mm	%
<b>BWF colourLED® PMMA</b>				
VR 1650-1, Nr. 11 white	1	1650	3050	83
<b>BWF colourLED® PC</b>				
VRX 1650-2, Nr. 2 white	2	1650	3050	75
VRX 1650-3, Nr. 2 white	3	1650	3050	75

### DRAWING

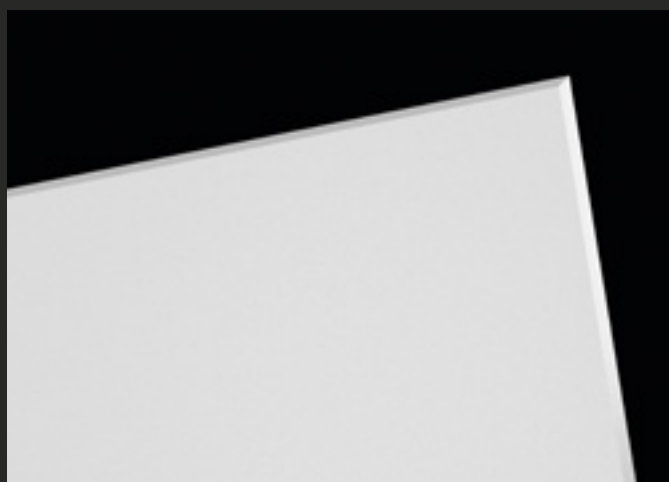


# BWF ecoRAIL®

## The material of choice for railway vehicles

BWF ecoRAIL® sheets combine the optical advantages of BWF colourLED® with the unique features of BWF ecoRAIL®.

BWF ecoRAIL® thus combines two proven BWF Profiles developments in one product. On the one hand, every important European fire protection standard is fulfilled and on the other hand, the BWF ecoRAIL® shows significantly better long-term stability than all the other standard flame-retardant materials on the market.



BWF ecoRAIL® sheet

### GENERAL INFORMATION

- maximum fire retardant
- 100% without halogens
- significantly improved long-term UV stability compared to other flame-retardant materials
- complies with all common European fire standards
- unique transmission
- excellent light diffusion
- no visible LED hotspots

### FIELDS OF APPLICATION

- modern, energy-saving lighting concepts
- suitable for very flat, evenly illuminated light elements
- luminaire arrays without dark spots
- thermoformed diffusers

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH	TRANSMISSION
	mm	mm	mm	%
VRX 1700-3	3	1700	3050	75

### DRAWING





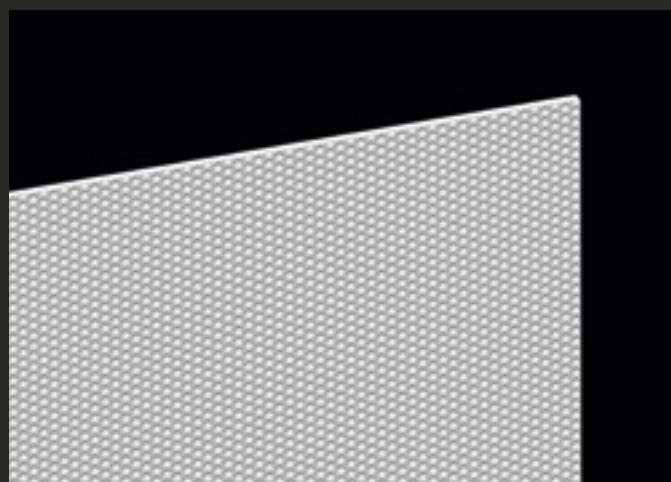
# BWF *design*PRISM

## High-quality light diffusion

The BWF designPRISM sheet combines a high-quality design with **excellent light diffusion**.

Our **light-diffusing plastic sheet** offers the **perfect light-diffusing properties** of BWF colourLED® in combination with the **high-quality appearance** of the BWF diamondPRISM® prism structure.

The inverse structure of the microprismatics guarantees that there are no predetermined breaking points. Furthermore, no additional carrier sheet is required.



BWF designPRISM sheet

### GENERAL INFORMATION

- high-quality microprismatic structure for perfect light diffusion without additional diffusion foil
- homogeneous appearance due to uni-directional microprismatic structure
- due to inverse microprismatic structure:
  - no predetermined breaking points
  - no additional carrier sheet needed
- homogeneous LED illumination

### FIELDS OF APPLICATION

- modern, energy-saving lighting concepts with LED technology
- very flat and homogeneously illuminated lighting elements with high efficiency
- suitable for any dimension

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH	TRANSMISSION
	mm	mm	mm	%
PMMA with BWF colourLED®	2	1350	3050	87

### DRAWING



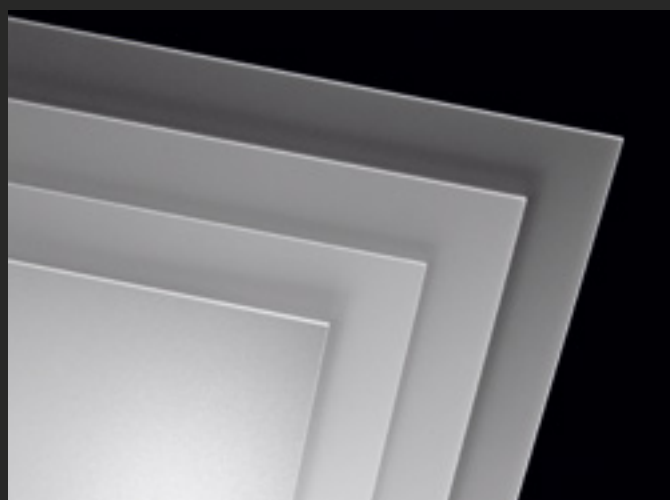
# Acryl-Satiné & Satiné-Blend sheets

For your highest light diffusion requirements

Acryl-Satiné and Satiné-Blend feature **excellent light-diffusing properties** that will perfectly set the scene for your projects.

**Acryl-Satiné**, our innovative compound based on acrylic material, lives up to highest expectations in terms of light diffusion. Excellent transmission and a satinated, scratch-resistant surface are perfect properties to guarantee an outstanding effect for your applications.

**Satiné-Blend** is the analog material compound, showing the same optical properties, however based on polycarbonate. Due to this, Satiné-Blend is perfect for applications which must meet special safety standards regarding fire.



Acryl-Satiné and Satiné-Blend sheet

## GENERAL INFORMATION

- excellent light diffusion without visible hotspots
- high degree of transmission
- satinated and resistant surface

## FIELDS OF APPLICATION

- ideal for flame-retardant safety requirements
- excellent for thermoforming and edging

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH	TRANSMISSION
	mm	mm	mm	%
<b>Acryl-Satiné 14/6 natural</b>				
VRV 1700-2	2	1700	3050	92
VRV 1700-3	3	1700	3050	89
<b>Satiné-Blend natural</b>				
VRS 1700-3	3	1700	3050	66

## DRAWING



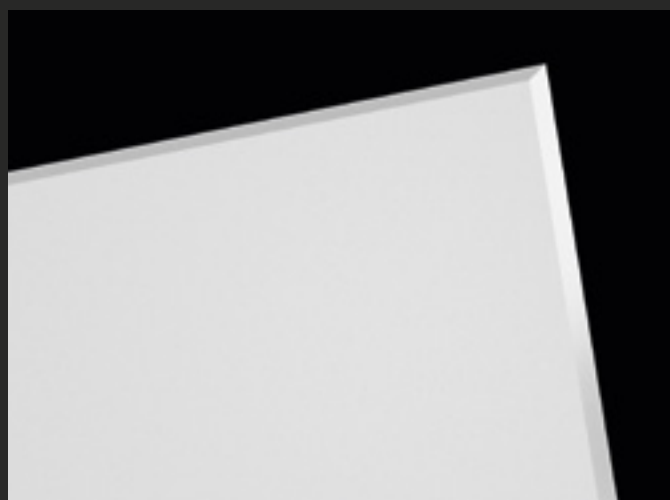
# BWF *side*LIGHT

## The perfect light guide

BWF sideLIGHT sheets serve as **light guides** for modern, flat lighting systems.

The 6 mm thick BWF sideLIGHT sheet allows a homogeneous surface illumination with LED light fed in from the side. A combined use of the light-conducting plastic sheet – depending on the application – is possible.

Combine our sideLIGHT sheet either with our BWF colourLED® diffuser sheet in 1mm for particularly homogeneous light surfaces or use our BWF diamondPRISM® sheet for ideal, glare-free light due to the outstanding properties of our microprismatic sheet.




BWF sideLIGHT sheet

### GENERAL INFORMATION

- homogeneous light distribution on the sheet surface
- BWF sideLIGHT sheets can be combined with:
  - BWF colourLED® sheets
  - BWF diamondPRISM® sheet

### FIELDS OF APPLICATION

- light guide for modern, flat lighting systems
- optimized for applications with a maximum width of 200 mm

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH
	mm	mm	mm
VRY 1010-6	6	1010	3050
DRAWING			

# BWF Satlite

## Light guide for large-scale applications

We focus on light. The **forward scattering property** of the BWF Satlite light guide sheet puts your applications in a new light. The light is fed in at the edge and is homogeneously distributed on the sheet surface.

Our **8-mm-thick Satlite sheets** serve as **forward-diffusing light guides** for large-scale applications with widths of up to **1,010 mm** in Point of Sales and display applications.



BWF Satlite sheet

### GENERAL INFORMATION

- homogeneous light distribution on the sheet surface
- matt surface
- low weight
- little waste
- no Newton's rings

### FIELDS OF APPLICATION

- light guide for modern, flat luminaires
- displays, signposts, coloured lighting systems, timetables, house numbers, office signs, extremely flat signs, light tiles
- light-diffusing sheets up to DIN A5 can be economically produced by injection moulding for larger series

MATERIAL	WALL THICKNESS b	MAX. WIDTH a	LENGTH
	mm	mm	mm
VRY 1010-8	8	1010	3050

### DRAWING



# Plastic Tubes

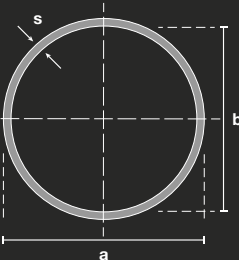
The ideal solution for every application

BWF Profiles offers tubes in **different dimensions** in PMMA, PC, Acryl-Satiné and Satiné-Blend from stock. The tubes are stored in standard lengths, but can be cut according to your requirements.

Additional plastic tubes can be purchased against minimum order quantities which depend on the size of the respective cross section. On request, we can also produce stock tubes in alternative materials or lengths.

Whether round, oval, rectangular, or even in more complex shapes – BWF Profiles delivers first-class quality and highest precision as well as perfect surface finish, fitting accuracy, and function.

## STOCK TUBES

DRAWING	DENOMINATION/MATERIAL	OUTER DIAMETER a	INNER DIAMETER b	WALL THICKNESS s
		mm	mm	mm
	ROHY/Acryl-Satiné 14/6 natural	38,0	35,0	1,5
		50,0	47,0	1,5
		200,0	194,0	3,0
	ROHX/PC transparent	38,0	35,0	1,5
		200,0	194,0	3,0
	ROHS/Satiné-Blend natural	50,0	47,0	1,5



# General Information

## Special terms and conditions for stock items

The products contained in the catalogue are available from stock. Subject to prior sale of the stock. All sheets and tubes contained in the catalogue are also available in other materials and in the colours of your choice, provided that the minimum quantity required for production purposes has been purchased.

### TERMS OF PAYMENT

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We reserve the right to process initial orders against prepayment. The minimum order value per invoice is 1,000 €, with a minimum of 100 € per item.

### TERMS OF DELIVERY

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Ex works, packaging and insurance charged.

**Samples are available upon request.**

Our tubes are in stock in production lengths with a length tolerance of +20/-0 mm. For defined lengths with a smaller length tolerance, a cutting allowance is charged. Customary deviations in dimension, weight and colour are reserved.

Please submit any complaints within 10 days of receipt of the goods, stating the part number and invoice number; differences in dimensions and other complaints can only be considered if the part in question is unprocessed and provided in its original packaging.

All technical and practical support provided by BWF Profiles is to the best of our knowledge. It is a recommendation only and does not make BWF Profiles take any liability for further steps in the lifetime of our products, especially not with regards to rights of third parties.

### DISCLAIMER

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This catalogue contains, among other things, information and data from raw material manufacturers. They serve the sole purpose of providing information about the manufacturer's specifications for the raw material used. BWF Profiles does not take any warranty for this information and data. The correspondence of the raw material with this information and data is especially not part of the guaranteed condition of BWF Profiles. BWF Profiles takes liability for the quality of their products exclusively in accordance with their own terms and conditions and for the quality guaranteed therein and afterwards.

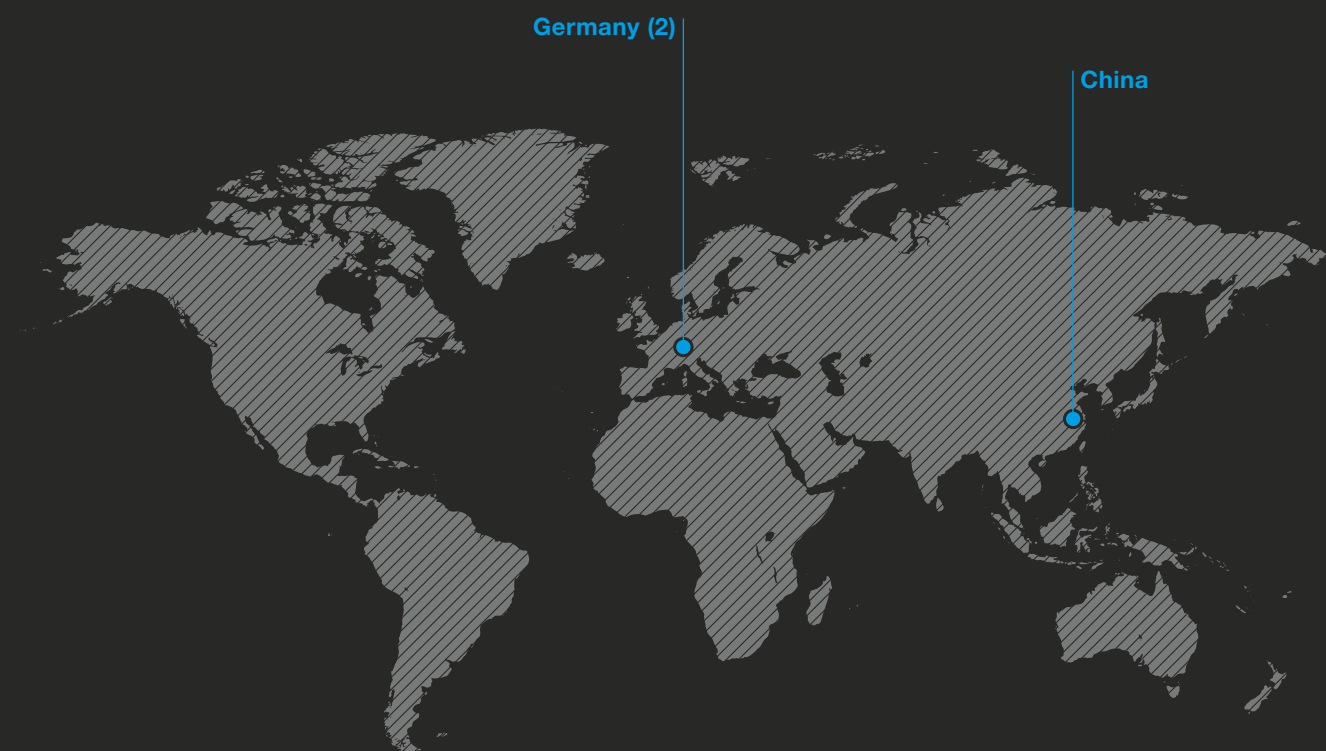
In addition, the general terms and conditions of BWF Kunststoffe GmbH & Co. KG shall apply which you can find on [www.bwf-profiles.com](http://www.bwf-profiles.com).



# BWF Profiles Sites

Globally operating for you

**BWF Profiles** is located at three production sites. Due to our international sales partners we are globally entrenched.



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