

TECHNOFORM

# Standard profiles 2025

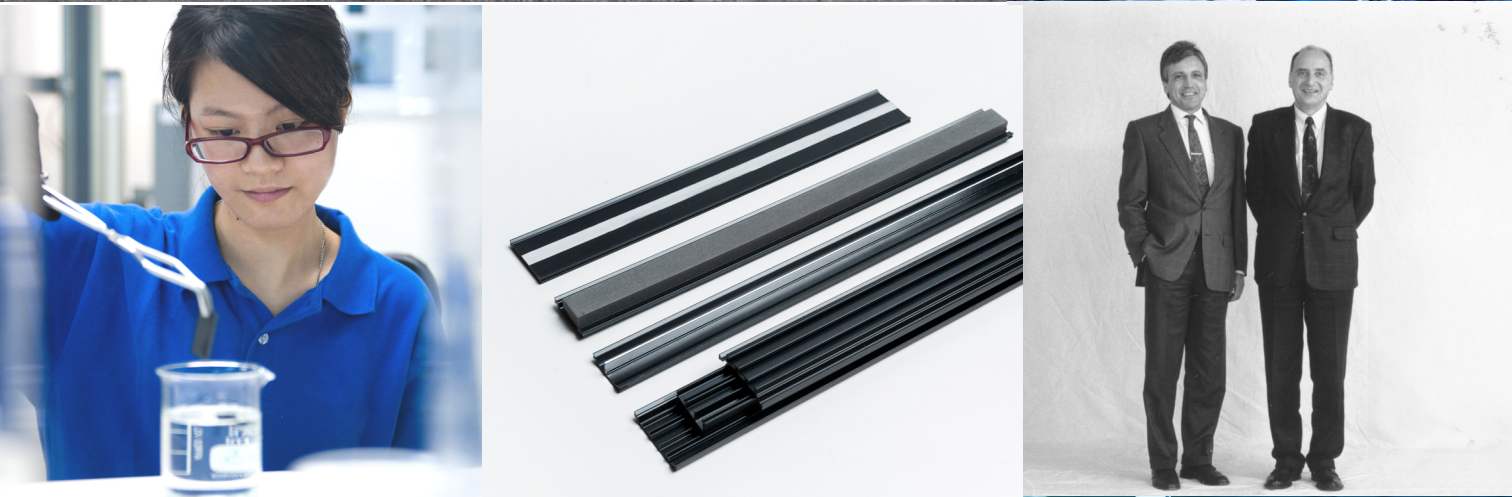
Insulation solutions for  
windows, doors, and facades.



## Standard profiles for windows, doors, and facades

### Find your perfect match – our standard profile solutions

Our standard offering comprises more than 800 freely available geometries for varying markets and needs. High quality solutions can be created using the insulating profiles in the standard program. All serial products can be rapidly supplied in any length and quantity to any location in the world, thanks to our global network of 13 production sites and more than 45 sales offices. Our specialists will gladly assist you with your project from the planning and development stage up to the finished product.



### Low Lambda Polyamide – thermal break has a new value

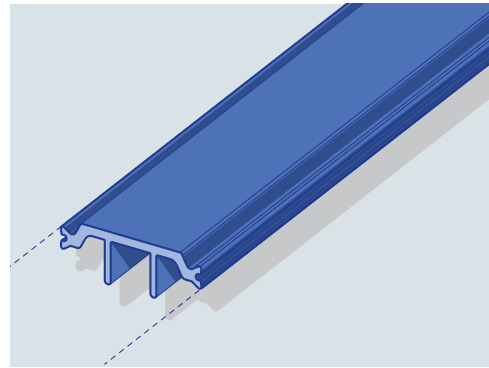
On the path towards an optimized Uf value, we have also developed a new standard: our Low Lambda Polyamide. With this innovation we can now offer you two possibilities to match your requirements. Choose between a reduced Uf value by maintaining the same frame size or a smaller frame while leaving the Uf value unchanged.



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# Our materials - always rely on the best

When it comes to our materials, you can be assured that we are only satisfied with the best. Thus, we offer a major material variety to find the perfectly tailored solutions for every project. High precision for processing, compatibility, environmentally friendly production and best mechanical performance are just some of the characteristics you can rely on.



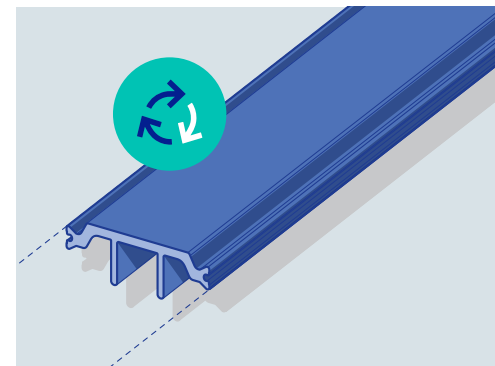
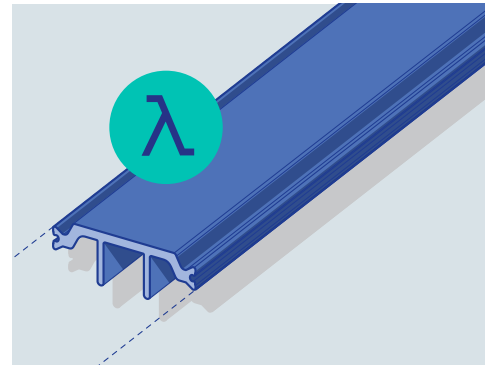
## **Standard Polyamide / PA 66 GF25, dry impact resistant**

With our standard polyamide-based material we guarantee unlimited availability and recyclability as well as excellent performance to match your needs.

## **Low Lambda Polyamide**

With our innovative Low Lambda polyamide-based material you get a certified and reliable Lambda value of  $0.21 \text{ W/(mK)}^*$  and with it the best all around solution.

\*  $0.198 \text{ W/(mK)}$  under ASTM C518-17, Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus



## **Recycled Polyamide**

To take a step further in the increased use of eco-friendly materials, we offer recycled polyamide-based material that fulfills our high quality and processing standards. This includes both Standard PA 66 GF25 and Low Lambda options, ensuring a versatile range of sustainable solutions tailored to your needs.








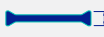








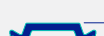














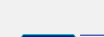








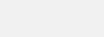





















# Low Lambda, the new standard

# Standard profiles Low Lambda Polyamide

Our profiles are extruded in Low Lambda PA 66 GF25, dry impact resistant.

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\*Article production in America or Asia / #Head not compatible to Standard Groove

























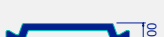













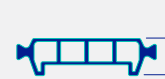




























12 mm	16 mm	20 mm	22 mm	23 mm	24 mm	24 mm	26 mm	27 mm	28 mm	29 mm	
 839200	 855400	 824300	 817700	 833100	 842400	 853400	 829200	 824200	 854800	 863800	 815200
	 856000	 835200	 847500		 853300	 828200	<b>24.8 mm</b>	 859700	 809700	 824100	
		 830600	 842300		 804100	 848600	 855300		 806100	 824000	
		 834600	 818000		 828300	 852900	 857600		 850300		
		 842700			 833800	 804200	 855200		 803300		
		 845700			 842200	 811000	 858800		 805900		
		 829300			 866000	 854700	 863700		 850400		
					 829400	 858500	 857500		 809600		
					 813900	 858400			 803200		
					 847700	 850800					
					 854100	 845600					
					 834000	 847600					

# Standard profiles Low Lambda Polyamide

Our profiles are extruded in Low Lambda PA 66 GF25, dry impact resistant.





















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30 mm	32 mm	34 mm		35 mm	36 mm	37 mm	38 mm	39 mm		40 mm	
 846500	 823600	 821100	 838700	 830100	 816900	 809900	 829900	 <b>863900</b>	 810800	 823400	 841900
 800200	 <b>861700</b>	 807600	 831400	 <b>861300</b>	 840200	 813700	 843600	 827300	 805000	 806400	
 809800	 803000	 849100	 802800	 821000	 851600	 808000	 801600	 800800	 <b>865600</b>		
 <b>860000</b>	 851700	 802200	 838600	 846300				 842000			
 <b>859800#</b>	 803100	 <b>857900</b>	 855100	 <b>857800#</b>				 827200			
	 806300	 800900	 813300					 805100			
		 833300	 <b>866100</b>					 801500			
		 811800	 811500					 842100			
		 823800	 813200					 821300			
		 833200	 825300					 827100			
		 <b>862200</b>	 838500					 855500			
		 835300	 849200					 801400			




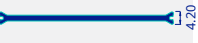
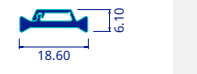


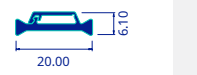


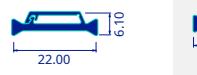
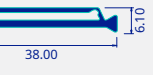
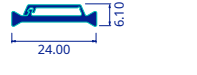
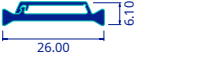
# Standard profiles Low Lambda Polyamide



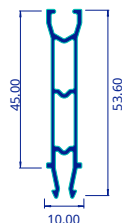




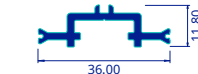
Our profiles are extruded in Low Lambda PA 66 GF25, dry impact resistant.

42 mm	44 mm	45 mm	46 mm	48 mm	50 mm
 806800	 810700	 808100	 852600	 861900	 812800
 862500	 863500				 854000
 849900	 863600				
 845400					
 862400					
 840000					
 840100					
 835700					
 835600					
 839900					
 849800					
 862600					

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54 mm	55 mm	58 mm	60 mm	Anti bi-metal	
 812600	 833500	 862000	 862100	 835800	 810000
 812500				 850900	 824600
 822900				 835900	 850200
				 835400	
				 851000	

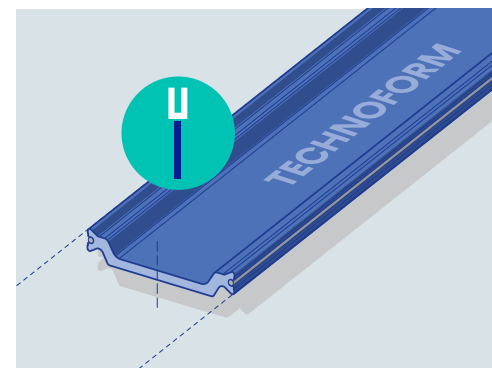
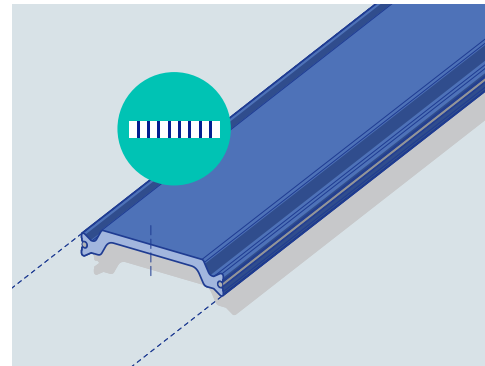
Profiles for sliding doors	Hidden sash	Curtain wall spacers
 863000	 859600	 860900
 863400	 864000	
 851800		
 862300#		
 843500		

# Our principle: we optimize your processes and you have more time for the important things

Insulation for aluminum windows, doors, and facades can always be optimized and improved to hit peak performance. Our specialized processing methods can streamline your workflow and leave you to focus on the rest.

## Glue wire

If you need to add extra steps to your production process, we know that this can be a drain on time and money. Adding glue wire to a profile reduces the loss of shear strength due to powder coating, and we can pre-install it for you, meaning no extra processes or added headaches on your end.

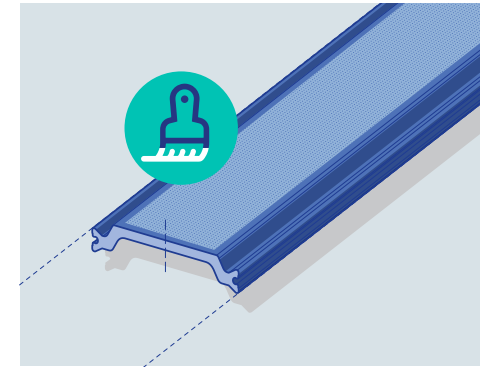
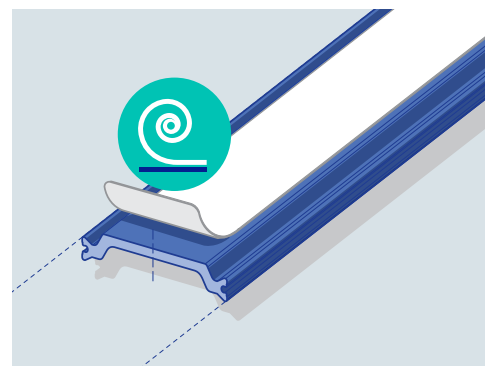


## Lasermarking

Sometimes it's little touches that add quality and functionality to a product. By having your profiles lasermarked, you can increase your brand visibility, adding value to your products, or simply make them easier to trace for improved logistics and quality control.

## Adhesive film

Maintaining the visual appearance of a smoothly produced profile presents a different aesthetic challenge. Supplying profiles with an adhesive film already applied protects them during the coating process, and means they remain looking as smooth and high-quality as they did when they left the plant.



## Coating Prime

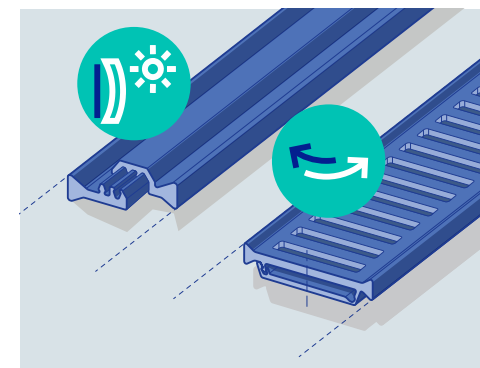
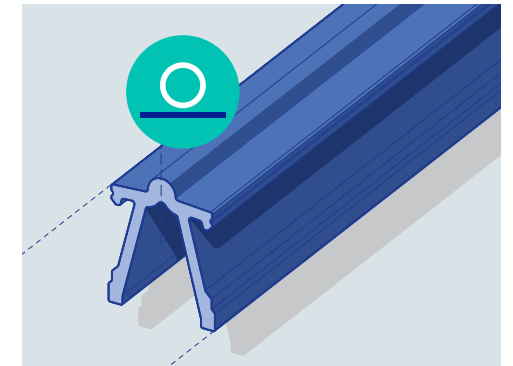
Achieve an excellent surface finish in polyamide coating by optimizing powder paint deposition while maintaining the low thermal conductivity of polyamide.

Coating Prime enhances paint adhesion to polyamide, increases the attraction of powder paint, and reduces bubble formation during the curing process.

# Your challenge is our motivation

## Solutions for sliding windows and doors

Sliding windows and doors are popular in modern architecture for their aesthetic appeal and functionality. Achieving thermal optimization, visual minimalism, and smooth mechanical operation requires precise manufacturing. Technoform profiles are crafted with tight tolerances, exact geometry, and smooth surfaces for friction-free movement.

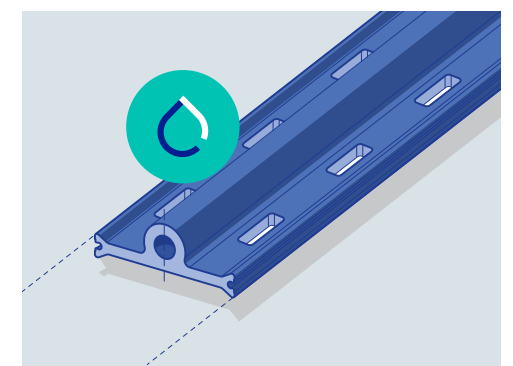


## Anti bi-metal

The so-called bi-metallic effect occurs when there is a large difference in temperature between the inner and outer frame of a door. The outer frame expands and can cause distortion of the door and locking difficulties. Our solution allows the outer frame to expand with only minimum effect to the fit of the inner frame, meaning it continues to function as normal.

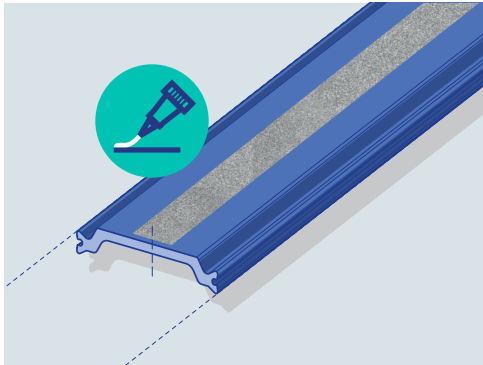
## Drainage

French NF DTU 39 P1-1 regulation stipulates that windows must have drainage holes for water to filter through the profiles. By supplying profiles with drainage holes means that fabricators do not need to drill these holes themselves, thereby adding value to the product they sell.



# Adhesion Prime - the ultimate solution for Polyamide-to-Material bonding

The bonding of components in aluminum windows with thermal break is a critical process for system manufacturers, designers, and installers, demanding precision and reliability. To address this challenge, Technoform has introduced Adhesion Prime, an innovative and patented solution designed to significantly enhance the adhesion properties of polyamide. This breakthrough ensures a superior bond between the adhesive and the substrates.

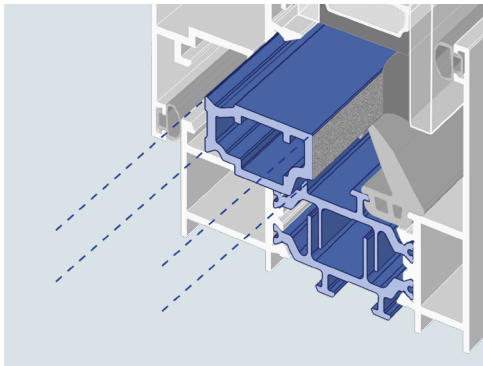
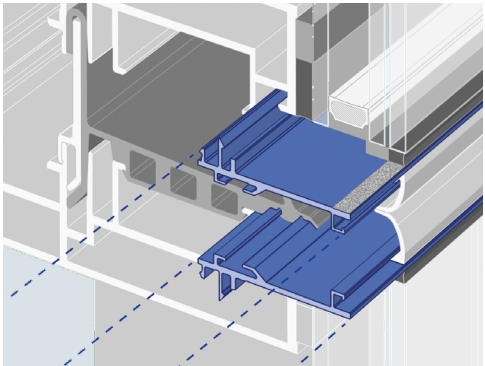


### New possibilities

The ability to achieve optimal adhesion between polyamide and the substrate significantly expands design options for systems and structural solutions, enabling innovations that were previously beyond our reach.

### Unitized curtain walls

Adhesion Prime allows sealing the glazing unit with silicone from the edge to an adjacent element, usually aluminum.

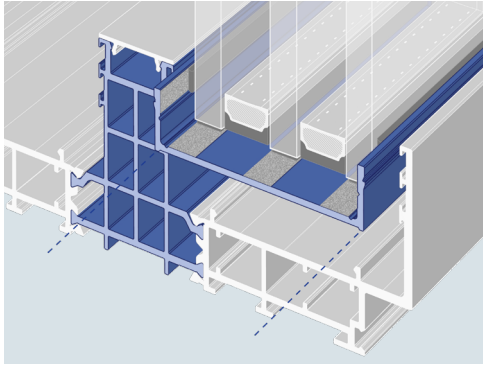


### Hidden sash

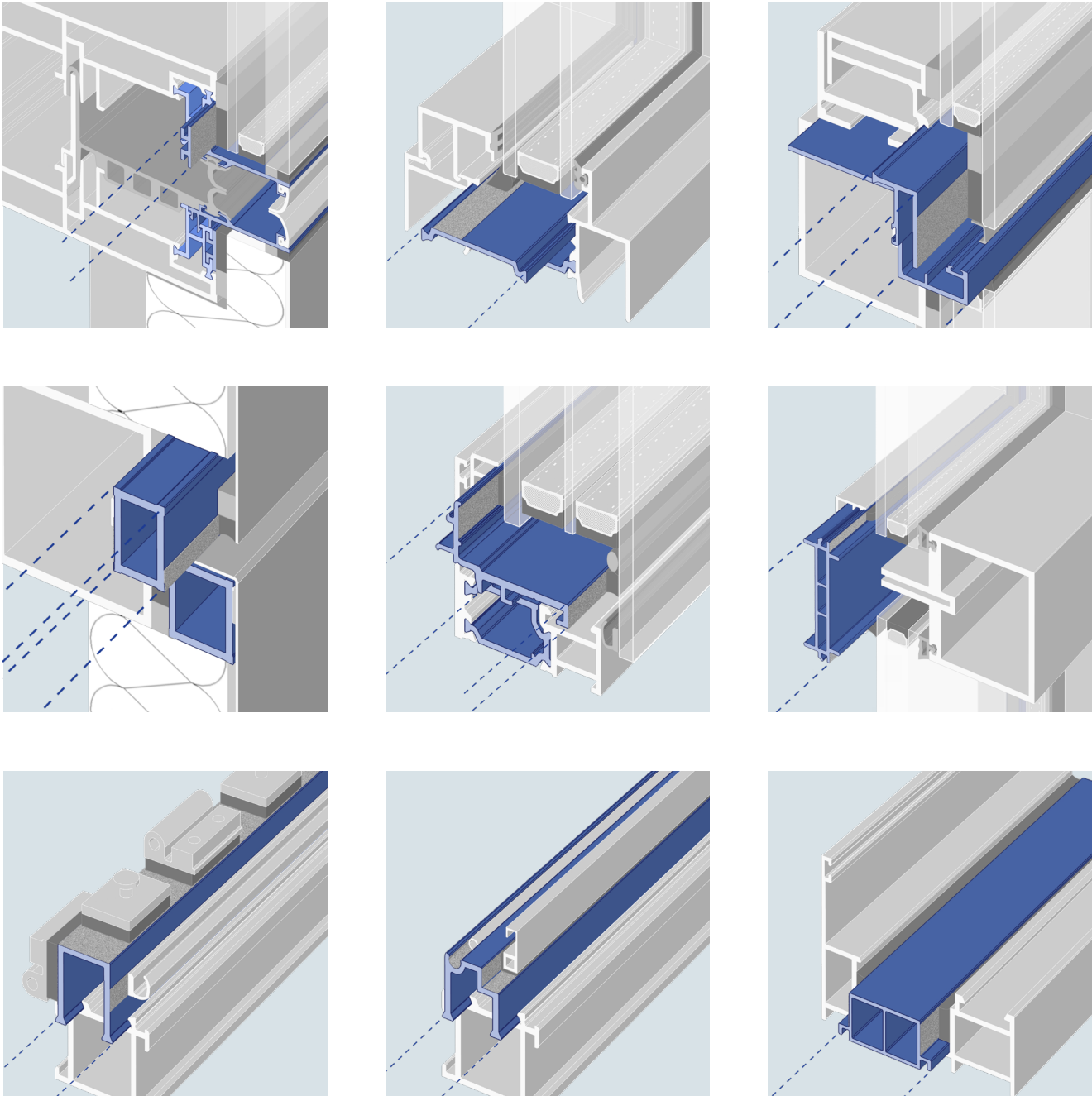
Adhesion Prime enables bonding between the glazing and the sash profile through polyamide strips, achieving a more seamless integration between the glazing and the frame. This innovation eliminates the need for external glazing beads and joints on the sash, streamlining the design. Additionally, it enhances the rigidity of the sash, providing improved structural stability and performance.

### Minimalist sash of sliding system

Designed with a minimal frame to maximize transparency, these systems emphasize a clean, elegant aesthetic. However, the polyamide profile, crucial for superior thermal performance, can pose challenges in bonding with other materials. To overcome this, Adhesion Prime enables polyamide to bond with glazing as effectively as aluminum, creating a durable assembly that glides effortlessly along the frame's rail.



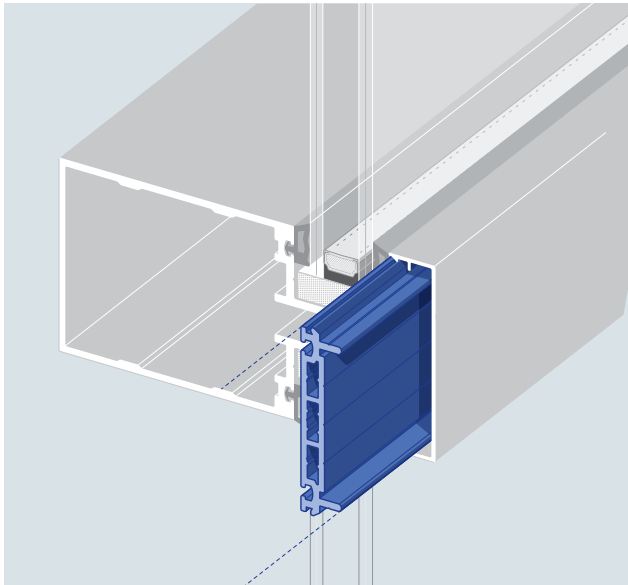
## Endless possibilities





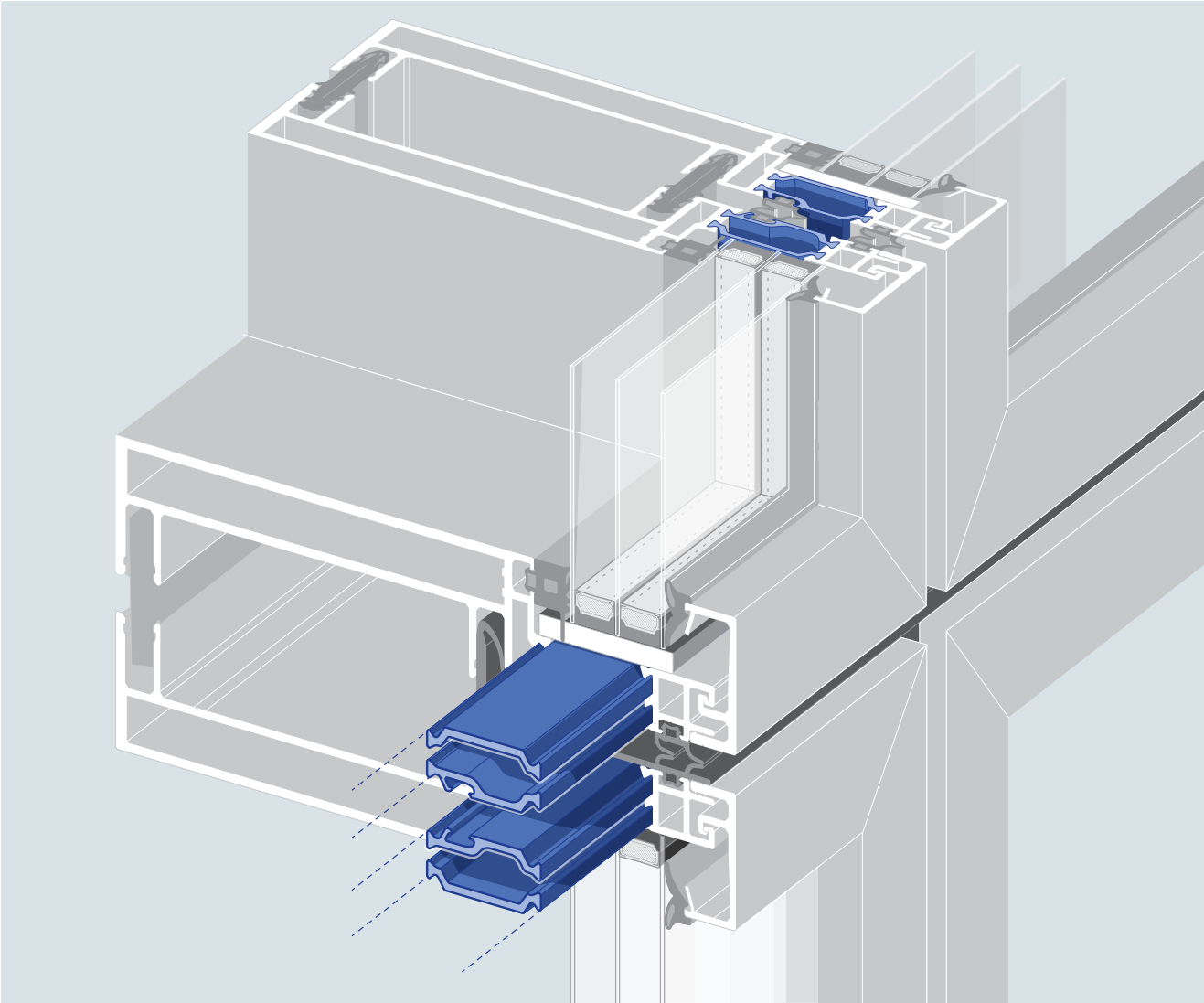
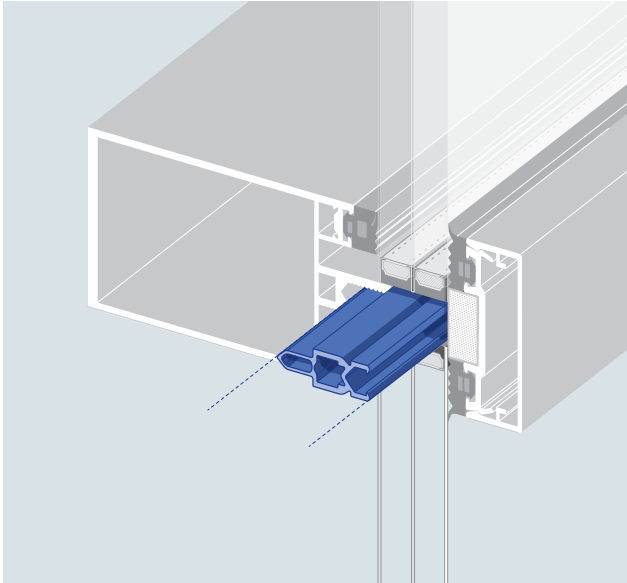
# Facade solutions – boosting intelligence in modern buildings

Lightweight, durable, stylish: when it comes to the exteriors of office buildings and other large-scale construction projects, aluminum is frequently the material of choice. Aside from the visual aspects we take a step further to a more intelligent construction. Our aluminum facade solutions for external wall insulation help improve the thermal performance of this popular material. And we do it for a reason. Just relax and let us optimize your facades for full peace of mind.



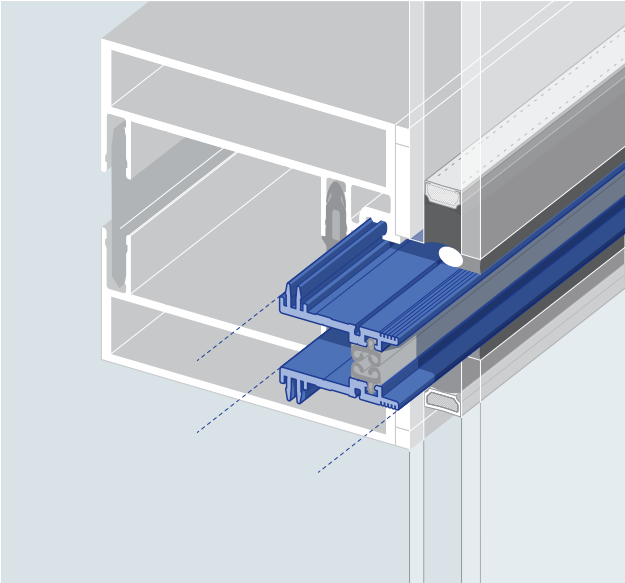
### Stick facades

For stick-facades, we offer a variety of 20 different standard polyamide spacers and pressure plates. To be more precise: our system solutions offer best in class thermal performance with U-values as low as 1 W/(m<sup>2</sup>K).



### Unitized facades

All our insulating solutions for windows are suitable for unitized facades and we have special polyamide glass edge profiles for new systems.



























# Standard profiles PA66 GF25

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9 mm	10 mm	12 mm	13 mm	14 mm
 254000	 204600 <sup>#</sup>	 977500	<b>13.4 mm</b>	 202300
	 244800	 926900 · 975300	 979200	 913700
	 269800 <sup>#</sup>	 209900	<b>13.5 mm</b>	 202400
		 328100	 249100	 217100
		 958241	 969505	 233200 <sup>#</sup>
		 282000		 948600
		 442500 <sup>*</sup>		 493100 <sup>#</sup>
				 263400
				 486900
				 259900 <sup>#</sup>
				 948700
				 951559 · 943300
				 235300
				 241600
				 240200 <sup>#</sup>
				 980600
				 268200


# Standard profiles Polyamide

Our standard profiles are available in Standard and Recycled PA 66 GF25, dry impact resistant.

14 mm			15 mm		
14.6 mm	14.8 mm				
 355700*	 371700#	 937600	 221900	 335600#	 910300
 223900	 280600	 295600#	 403400	 320100*	 538500
 313000*	 931000 · 951659	 299000	 221400	 257100	 260500
	 216800	 486100*	 237600	 270300	 260400
	 271800	 201000	 246700	 937700	
	 924300 · 945500 951259	 931100 · 951759	 300800	 488200	
	 203900	 941600 · 951859	 271500	 977000	
	 208500	 961459	 273500		
	 952100 · 962059	 925500	 289700		
	 406100#	 975800	 961559		
	 378600	 279000	 987400		





























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16 mm			17 mm	18 mm	
 379100#	 940800	 977600	 296800	 589200	 955100
 962159#	 976000	 445500	 296700	 592000	 908300
 973500	 296500	 977900	<b>16.5 mm</b>	 286600#	 221200
 232900 · 265800	 277600*#	 940300	 977400	<b>17.4 mm</b>	 249200
 912000 · 955900 951359	 962259#	 981700	<b>16.6 mm</b>	 242700#	 964000
 345800#	 970559	 296600	 420800*#	<b>17.8 mm</b>	 465400
 221000	 973600	 980900		 330400	 233800
 961859	 942100	 214400		 325300	 270200
 963900	 976100	 221100			 955000
 203200#	 265900	 227500			 622800
 219900	 941800	 270100			 541400
 270000	 961959	 296900			 267100




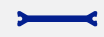
































# Standard profiles Polyamide

Our standard profiles are available in Standard and Recycled PA 66 GF25, dry impact resistant.

18 mm	19 mm	20 mm
 276900	<b>18.6 mm</b>	 316700
 224100	 210900	 276000
 290600	 273300	 250800
 357400*	 912100 · 912159	 979300
 955200	 912800	 330500
 277000	 977700	 952459
 343900	 279300*	
 235400	 332700*	
 322100*	 360500*	
 248300	 276800	
 955300	 324600	
	 226300	

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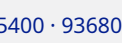





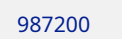




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20 mm	21 mm	22 mm	23 mm
 964200	 250000	 556500	 202200
 271100	 439500*#	 357500*	 242900
 966500	<b>20.6 mm</b>	 556400	 908400
 306700	 221500#	 269700	 286700
 325500	 221600#	 966605	 389600
 283600		 978700	 245800
 493600		 413700	 491600
 297800*		 228100	 439100*
 924900		 271300*	
 964100		 243000	
 271200		 431300	
 330700		 245900	

# Standard profiles Polyamide

Our standard profiles are available in Standard and Recycled PA 66 GF25, dry impact resistant.




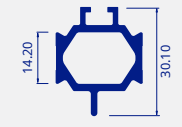

















## 24 mm

 961759 · 933100	 268000	 220300	 360900	 224000	 419300
 965159#	 294100	 246300*	 566000	 251800	 359800
 919300 · 975900	 976700	 271400*	 322000	 969759	 546100
 390900	 940400	 927200	 495000	 246600	 443700
 241700#	 969959	 925200	 403500	 289800	 256800
 956059	 479800	 975700	 249000	 464600	 273400
 957500	 984300	 404000*	 231900	 479700	 464700
 350300	 961105	 228200	 268100	 502900	 516200
 355000	 979500	 415100	 294200	 330600	 510600
 360800	 459500	 956159	 964300	 228800	 418200
 954800	 975400 · 936800	 291100	 400800	 300400	 406200#
 235100	 987200	 253600	 979900	 561400	 399200








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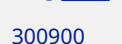
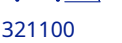

## 24 mm

 231800	 578400
 358900	 964559#
 297200	
 297100	<b>24.8 mm</b>
 214000	 215600
 489900	 246100
 969859	 215700
 962659	 265000
 214800	 214300
 224600	 282100
 413900	 246000
 439400#	

## 25 mm

 910400	<b>25.3 mm</b>
 979400	 470200*
 950159	 329600*
 974500	 329700*
 249500	 329800*
 946700	<b>25.5 mm</b>
 249600	 220400
 974600	
 249700	

## 26 mm














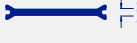


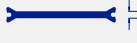


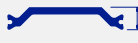

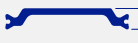



















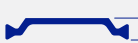








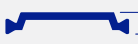






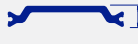

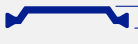


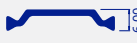

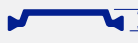






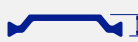



















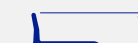







 212600	 410800
 254800	 401700
 908500	 321800
 260600	 978900
 453100	 426400
 304500	 359600
 491200	 394200
 289300#	 208700
 978800	 264100
 357700	 300900
 321100	
 544900#	

# Standard profiles Polyamide

Our standard profiles are available in Standard and Recycled PA 66 GF25, dry impact resistant.










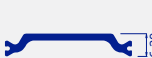

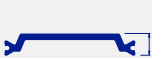













































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27 mm	28 mm		29 mm	30 mm	30 mm		31 mm	32 mm		34 mm	
 971605	 222500	 354400*	 286800	 404600	 219500	 516600	 247400	 268300	 239300	 418400	 464800
 932000	 948400	 475500	 286900	 220800	 225500	 364500	 354700	 256000	 268400		
 253800	 927700	 355400	 229100	 246200	 493800	 352400	 303700	 256300	 349300		
 253900	 618200	 548200	 308600	 908600	 393000	 368700	 371800	 563100	 478700		
<b>27.5 mm</b>	 214700	 571000	 261900	 273800	 414400	 414300	 256100	 412200	 935100		
 942700	 223500	 321500	 242100	324100#	 241200	 349400	 494500	 218100	 949200		
	 321300	 566100		 282300	 493700	277100*#	 939700	 216100	 986200		
	 516900	 450000		 947400	 974700		 259800	 492100	 438400		
	 368600	 280800		 506200	 312000		 448300	 273900	 265400		
	 509900	 319600		 247300	 282400		247700#	 488300	 384200		
	 450100	 271600		 478600	 364600		 256200		 218600		
	 280900	 975100*		 486400	 247500		 496000		 269200		






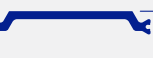

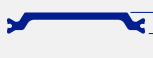

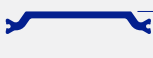

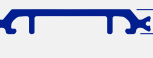
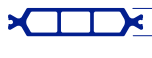


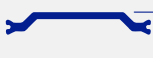




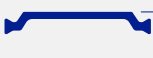


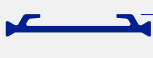






# Standard profiles Polyamide

Our standard profiles are available in Standard and Recycled PA 66 GF25, dry impact resistant.

34 mm			35 mm		36 mm
 425100	 378200	 425000	 432000	 418900	 201300
 429100	 548300	 437800	 337700	 423500*	 983400
 430400	 429300	 558600	 418600	 382100	 557600
 321700	 437900	 218400	 533200	 418500	 392400
 426300	 422900	 258800	 522100	<b>35.3 mm</b>	 478100
 986300	 423300	 543300	 215500	 485500*	
 265600	 386800	 503700	 358700	 477400*	
 587800	 443900	<b>34.8 mm</b>	 452300	 477500*	
 532600	 260900	 300700	 418800		
 357000	 240800	 300600	 423700*		
 377100	 400100		 427100		
 559400	 265500		 418700		



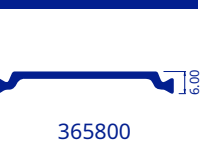

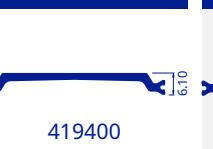

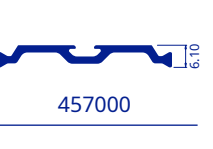
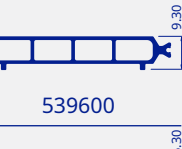
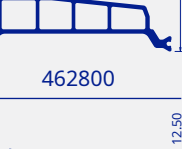

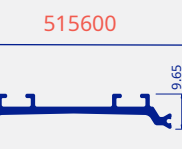
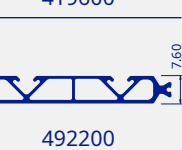

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37 mm	38 mm	39 mm	40 mm	42 mm	44 mm
 394600*	 327800	 357900	 357800	 286300	 502100
 425200	 219300	 340000	 444200	 334800	 352100
 515000	 363700	 340300	 287800	 599100	 501000
 394400*		 340200	 412000		
 394500*		 546200	 521000		
		 452100	 442800		
		 340100	 441900		
		 368500	 364700		

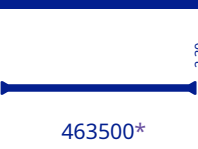


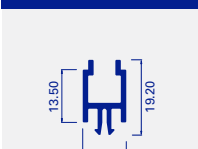
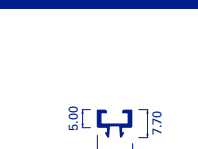
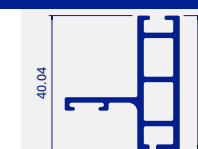
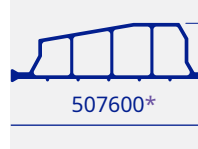
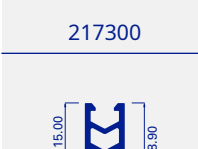
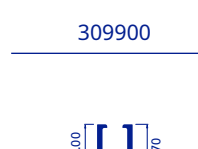
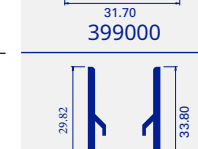
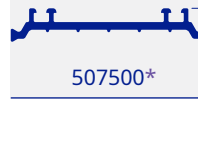
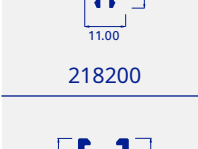
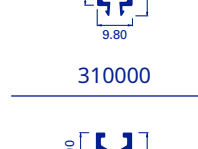
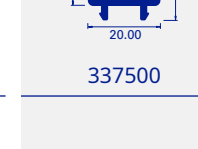
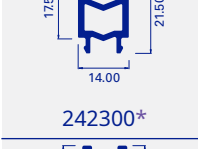
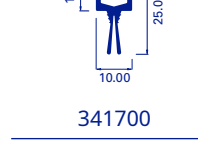
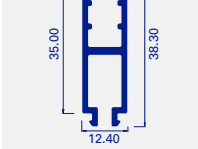
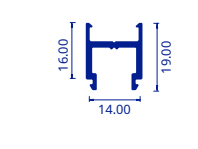
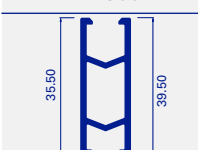
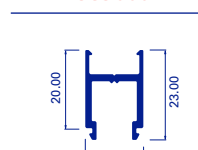
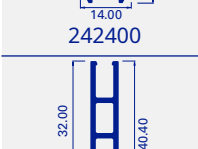
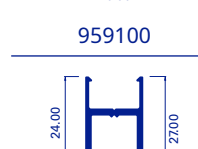
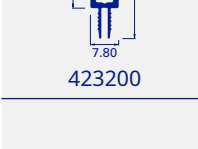
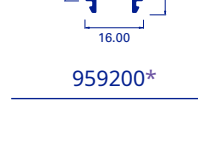
# Standard profiles Polyamide

Our standard profiles are available in Standard and Recycled PA 66 GF25, dry impact resistant.

45 mm	46 mm	48 mm	49 mm	50 mm	54 mm
 466500	 200100	 365800	 617600	 419400	 419500
		 457000			 539600
					 462800
					 515700
					 515600
					 419600
					 492200

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60 mm	64 mm	77 mm	Curtain wall spacers		
 463500*	 328600	 261000*	 217300	 309900	 399000
	 507600*		 218200	 310000	 337500
	 507500*		 242300*	 341700	 337400
			 212500	 959000	
			 242400	 959100	
			 423200	 959200*	
			 248800*	 472500*	
			 280100	 398900	



# Standard profiles Polyamide




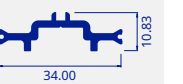
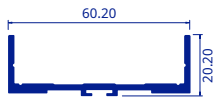


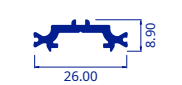

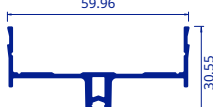


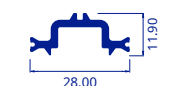
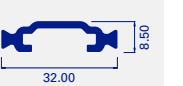
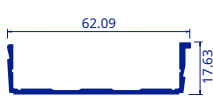
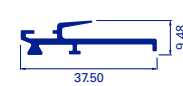

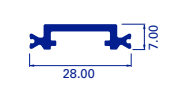
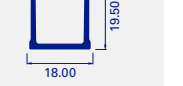
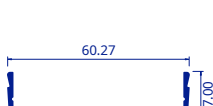
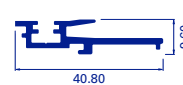

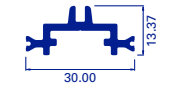







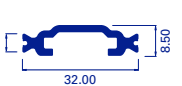



Our standard profiles are available in Standard and Recycled PA 66 GF25, dry impact resistant.

Operating Rods	Specials	Hidden Sash	Anti bi-metal		
 224400	 200600	 346000	 458800	 339000	 576000
 222400	 212100	 620400	 317000	 464400	 605100
 218000	 254400	 375400	 370000	 429900	 599900
 601100	 505200	 464900	 317100	 520900	 598700
 289400*	 492000	 529500	 339900	 521000	 590900
 254700	 432100*	 506400	 316200		 592400
 224500	 491700*	 550600	 387500		 605200*
	 449500*	 513400	 418100		

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## Profiles for sliding doors

Profiles for sliding doors				Profiles for minimal sliding doors
 200500	 389900	 437700	 274000	 440100
 979600	 486200	 301000	 245000	 440200
 244900	 371900	 618300	 306200*	 440300
 343200	 977100	 255300	 354300	 440400
 385200	 933000	 263000	 384300	
 403600	 385100	 282200	 959300	
 415500	 306300	 419000*		
 311300	 229000	 495600		

# Material data sheet

Insulating strips of **PA 66 GF25, dry impact resistant**

Characteristic	Reference standard	Unit	Samples from extruded insulating strips		Samples from injection molding
			Dry <sup>(1)</sup>	Equilibrium moisture content <sup>(2)</sup>	Dry <sup>(1)</sup>
Melting temperature	EN ISO 11357-3	°C	≥ 250 <sup>(3)</sup>	≥ 250 <sup>(3)</sup>	≥ 250 <sup>(3)</sup>
Density	EN ISO 1183-1 or -3	g/cm <sup>3</sup>	1.3 +/- 0.05	1.3 +/- 0.05	1.3 +/- 0.05
Annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5	25 +/- 2.5
Tensile strength	EN ISO 527-2	N/mm <sup>2</sup>	≥ 80 <sup>(4)</sup>	≥ 50 <sup>(4)</sup>	≥ 110 <sup>(5)</sup>
Young's modulus	EN ISO 527-2	N/mm <sup>2</sup>	≥ 4500 <sup>(4)</sup>	≥ 2000 <sup>(4)</sup>	≥ 6000 <sup>(5)</sup>
Elongation at break	EN ISO 527-2	%	≥ 3 <sup>(4)</sup>	≥ 7 <sup>(4)</sup>	≥ 3 <sup>(5)</sup>
Thermal conductivity	EN 12664	W/mK		0.30 <sup>(6)</sup>	
Reaction to fire	EN 13501-1	-		class E <sup>(7)</sup>	

**Material is suitable to be used as thermal barrier with mechanical functions according to EN 14024<sup>(8)</sup>**

- 1) Sample water content less than 0.2% by weight
- 2) Fast conditioning acc. to EN ISO 1110
- 3) Maximum temperature 300 °C
- 4) Specimen Type 1BA - mean value with minimum sample size of 5 specimens at room temperature - tension measured in extrusion direction
- 5) Specimen Type 1A
- 6) The declared value is taken from ISO 10077-2 and can be used for thermal performance of frames according to the mentioned standard
- 7) Report 24-003934-PR02
- 8) EN14024:2004 chapter 4.2 Report 12-001212-PR09 ift Rosenheim GmbH (corresponds to EN14024:2023 ch. 5.2 parts a, b, c, d and f)

**In case of specific questions we gladly offer you our individual support**

# Material data sheet

Insulating strips of **Low Lambda PA 66 GF25, dry impact resistant**

Characteristic	Reference standard	Unit	Samples from extruded insulating strips	
			Dry <sup>(1)</sup>	Equilibrium moisture content <sup>(2)</sup>
Melting temperature	EN ISO 11357-3	°C	≥ 250 <sup>(3)</sup>	≥ 250 <sup>(3)</sup>
Density	EN ISO 1183-1 or -3	g/cm <sup>3</sup>	1.0 +/- 0.1	1.0 +/- 0.1
Annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5
Tensile strength	EN ISO 527-2	N/mm <sup>2</sup>	≥ 50 <sup>(4)</sup>	≥ 35 <sup>(4)</sup>
Young's modulus	EN ISO 527-2	N/mm <sup>2</sup>	≥ 2900 <sup>(4)</sup>	≥ 1300 <sup>(4)</sup>
Elongation at break	EN ISO 527-2	%	≥ 3 <sup>(4)</sup>	≥ 8 <sup>(4)</sup>
Thermal conductivity	EN 12664	W/mK		0.21 <sup>(5)</sup>
Reaction to fire	EN 13501-1	-		class E <sup>(6)</sup>

**Material is suitable to be used as thermal barrier with mechanical functions according to EN 14024<sup>(7)</sup>**

- 1) Sample water content less than 0.2% by weight
- 2) Fast conditioning acc. to EN ISO 1110
- 3) Maximum temperature 300 °C
- 4) Specimen Type 1BA - mean value with minimum sample size of 5 specimens at room temperature - tension measured in extrusion direction
- 5) Statement P1-2019E.1/2015 Fraunhofer-Institut für Bauphysik IBP. The measured values according to EN 12664 are statistically corrected (ISO 10456). The declared value can be used for the thermal performance of frames according to ISO 10077-2
- 6) Report 24-003930-PR02
- 7) EN14024:2004 chapter 4.2 Report 15-001437-PR02 ift Rosenheim GmbH (corresponds to EN14024:2023 ch. 5.2 parts a, b, c, d and f)

**In case of specific questions we gladly offer you our individual support**

# Material data sheet

Insulating strips of **Recycled PA 66 GF25**, dry impact resistant



Characteristic	Reference standard	Unit	Samples from extruded insulating strips		Samples from injection molding
			Dry <sup>(1)</sup>	Equilibrium moisture content <sup>(2)</sup>	Dry <sup>(1)</sup>
Melting temperature	EN ISO 11357-3	°C	≥ 250 <sup>(3)</sup>	≥ 250 <sup>(3)</sup>	≥ 250 <sup>(3)</sup>
Density	EN ISO 1183-1 or -3	g/cm <sup>3</sup>	1.3 +/- 0.05	1.3 +/- 0.05	1.3 +/- 0.05
Annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5	25 +/- 2.5
Tensile strength	EN ISO 527-2	N/mm <sup>2</sup>	≥ 80 <sup>(4)</sup>	≥ 50 <sup>(4)</sup>	≥ 110 <sup>(5)</sup>
Young's modulus	EN ISO 527-2	N/mm <sup>2</sup>	≥ 4500 <sup>(4)</sup>	≥ 2000 <sup>(4)</sup>	≥ 6000 <sup>(5)</sup>
Elongation at break	EN ISO 527-2	%	≥ 3 <sup>(4)</sup>	≥ 7 <sup>(4)</sup>	≥ 3 <sup>(5)</sup>
Thermal conductivity	EN 12664	W/mK		0.30 <sup>(6)</sup>	
Reaction to fire	EN 13501-1	-		class E <sup>(7)</sup>	

**The PA 66 used for production consists of 100% post industrial recycled materials**  
**Material is suitable to be used as thermal barrier with mechanical functions according to EN 14024<sup>(8)</sup>**

- 1) Sample water content less than 0.2% by weight
- 2) Fast conditioning acc. to EN ISO 1110
- 3) Maximum temperature 300 °C
- 4) Specimen Type 1BA - mean value with minimum sample size of 5 specimens at room temperature - tension measured in extrusion direction
- 5) Specimen Type 1A
- 6) The declared value is taken from ISO 10077-2 and can be used for thermal performance of frames according to the mentioned standard
- 7) Report 24-003934-PR02
- 8) EN14024:2004 chapter 4.2 Report 17-003857-PR01 ift Rosenheim GmbH (corresponds to EN14024:2023 ch. 5.2 parts a, b, c, d and f)

**In case of specific questions we gladly offer you our individual support**

# Material data sheet

Insulating strips of **Recycled Low Lambda PA 66 GF25**, dry impact resistant



Characteristic	Reference standard	Unit	Samples from extruded insulating strips	
			Dry <sup>(1)</sup>	Equilibrium moisture content <sup>(2)</sup>
Melting temperature	EN ISO 11357-3	°C	≥ 250 <sup>(3)</sup>	≥ 250 <sup>(3)</sup>
Density	EN ISO 1183-1 or -3	g/cm <sup>3</sup>	1.0 +/- 0.1	1.0 +/- 0.1
Annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5
Tensile strength	EN ISO 527-2	N/mm <sup>2</sup>	≥ 50 <sup>(4)</sup>	≥ 35 <sup>(4)</sup>
Young's modulus	EN ISO 527-2	N/mm <sup>2</sup>	≥ 2900 <sup>(4)</sup>	≥ 1300 <sup>(4)</sup>
Elongation at break	EN ISO 527-2	%	≥ 3 <sup>(4)</sup>	≥ 8 <sup>(4)</sup>
Thermal conductivity	EN 12664	W/mK		0.21 <sup>(5)</sup>
Reaction to fire	EN 13501-1	-		class E <sup>(6)</sup>

**The PA 66 used for production consists of 100% post industrial recycled materials**  
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- 6) Report 24-003930-PR02
- 7) EN14024:2004 chapter 4.2 Report 20-004377-PR05 ift Rosenheim GmbH (corresponds to EN14024:2023 ch. 5.2 parts a, b, c, d and f)

**In case of specific questions we gladly offer you our individual support**

# Cooperation partners

## Europe

- Federation of European Window and Curtain Wall Manufacturers' Associations

## Belgium & Netherlands

- BUtgb vzw · UBAtc asbl · Belgian Union for Technical Approval in Construction
- FAC · Federatie Aluminium Constructeurs
- VMRG · Vereniging van Metalen Ramen - en Gevefabrikanten

## France

- CSTB · Centre Scientifique et Technique du Bâtiment
- SNFA · Syndicat National de la Construction des Fenêtres, Façades et Activités Associées

## Germany

- IFT-Rosenheim · Institut für Fenstertechnik e. V.
- FIW-München · Forschungsinstitut für Wärmeschutz e. V.
- IFZ · Informationszentrum Fenster Türen Fassaden e. V.
- VFF · Verband der Fenster- und Fassadenhersteller
- Bundesdeutscher Arbeitskreis für Umweltbewusstes Management (B.A.U.M.) e. V.
- A/U/F Aluminium und Umwelt im Fenster- und Fassadenbau
- EPEA Internationale Umweltforschung GmbH
- Deutsche Gesellschaft für Nachhaltiges Bauen

## Great Britain

- CAB · Council for Aluminium in Building
- BFRC · British Fenestration Rating Council

## Italy

- UNICMI · Unione nazionale delle Industrie delle Costruzioni Metalliche dell'Involucro e dei serramenti
- AITAL / QUALITAL · Associazione Italiana Trattamenti superficiali Alluminio / Organismo di Certificazione

## Portugal

- ANFAJE · Associação Nacional dos Fabricantes de Janelas Eficientes
- APAL · Associação Portuguesa Do Alumínio

## Spain

- AEA · Asociación Española del Aluminio y Tratamientos de Superficie
- ASEFAVE · Asociación Española de Fabricantes de Fachadas Ligeras y Ventanas
- Tecnalía Research & Innovation
- ENSATEC · Laboratorio de Ensayos Tecnológicos

## The Americas

### North America

- FGIA · Fenestration and Glazing Industry Alliance
- AEC · Aluminum Extruders Council
- NGA · National Glass Association
- NFRC · National Fenestration Rating Council
- FTI · Façade Tectonics Institute

### South America

- CAIAMA · Cámara Argentina de la Industria del Aluminio y Metales Afines.
- Brasil AFEAL · Associação Nacional de Fabricantes de Esquadrias de Alumínio.
- AMEVEC · Asociación Mexicana de Ventanas y Cerramientos

## Asia

### China

- CAIGA · China Architectural and Industrial Glass Assn.
- CCMCA · China Construction Metal Structure Assn.
- Hong Kong Facade Association
- National Committee of Standardization for Non-ferrous Metals

### Korea

- KAFA · Korea Architectural Facade Association

### Singapore

- SGBC · Singapore Green Building Council
- BCA · Building and Construction Authority of Singapore
- ESI · Energy Studies Institute – National University of Singapore

## Australasia

### Australia & New Zealand

- WGANZ · Window & Glass Association New Zealand
- AGWA · Australian Glass & Window Association
- IGMA · Insulating Glass Manufacturers Alliance

## Certifications



### Europe

**TÜV Certification**  
according to ISO 9001:2015  
**Cradle to Cradle Certified®**  
Gold level Material Health Certificate  
Environmental Product Declaration

### Germany

**TÜV Certification**  
according to  
ISO 14001:2015  
ISO 50001:2018  
ISO 45001:2018

### Italy

**TÜV Certification**  
according to  
ISO 14021:2018  
ISO 14021:2021  
**RINA Certification**  
according to ISO 45001

### Belgium

**ATG Certification**

### North America

**TÜV Certification**  
according to ISO 9001:2015

### Russia

**GOST Certification**  
**Cradle to Cradle Certified®**  
Gold level Material Health Certificate

### China

**TÜV Certification**  
according to  
ISO 14001:2015  
ISO 9001:2015  
ISO 45001:2018

### Hong Kong

**TÜV Certification**  
according to  
ISO 14001:2015  
ISO 9001:2015  
ISO 45001:2018

### Singapore

**Singapore Green Building Product - Excellent**

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# Closer than you may think – you find us all over the world.



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