



TECHNOFORM

Standard profiles 2025

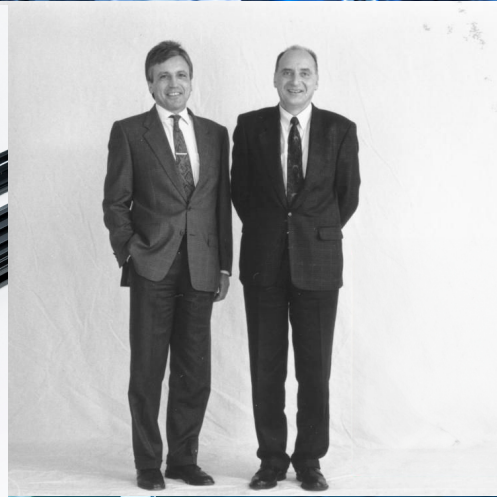
Insulation solutions for
windows, doors, and facades.



Standard profiles for windows, doors, and facades

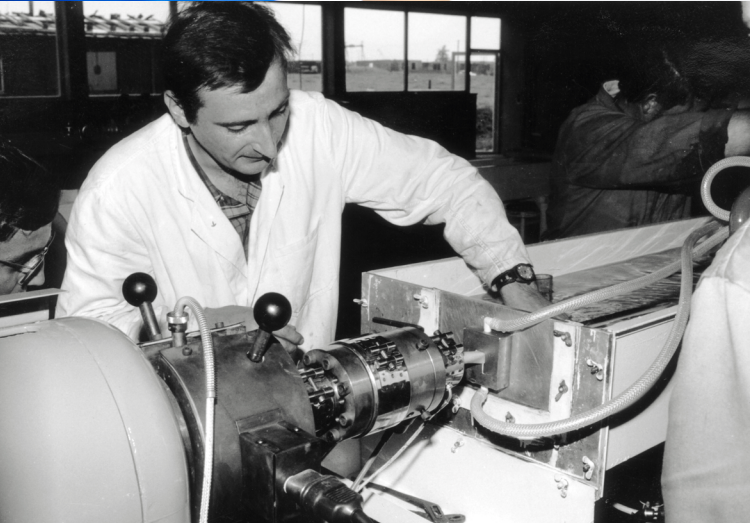
Find your perfect match – our standard profile solutions

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

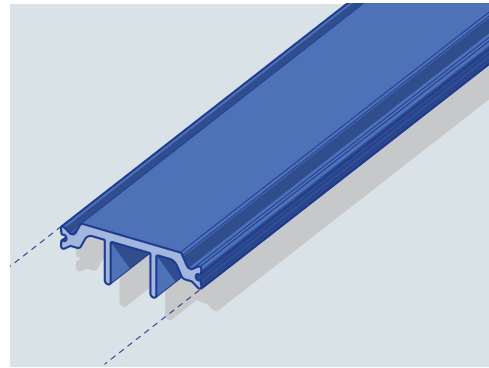
On the path towards an optimized U_f value, we have also developed a new standard: our Low Lambda Polyamide. With this innovation we can now offer you two possibilities to match your requirements. Choose between a reduced U_f value by maintaining the same frame size or a smaller frame while leaving the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



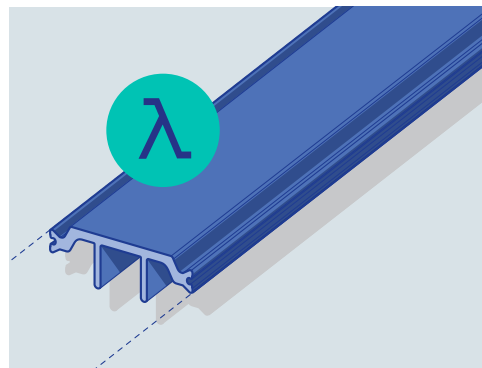
Standard Polyamide / PA 66 GF25, dry impact resistant

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

Low Lambda Polyamide

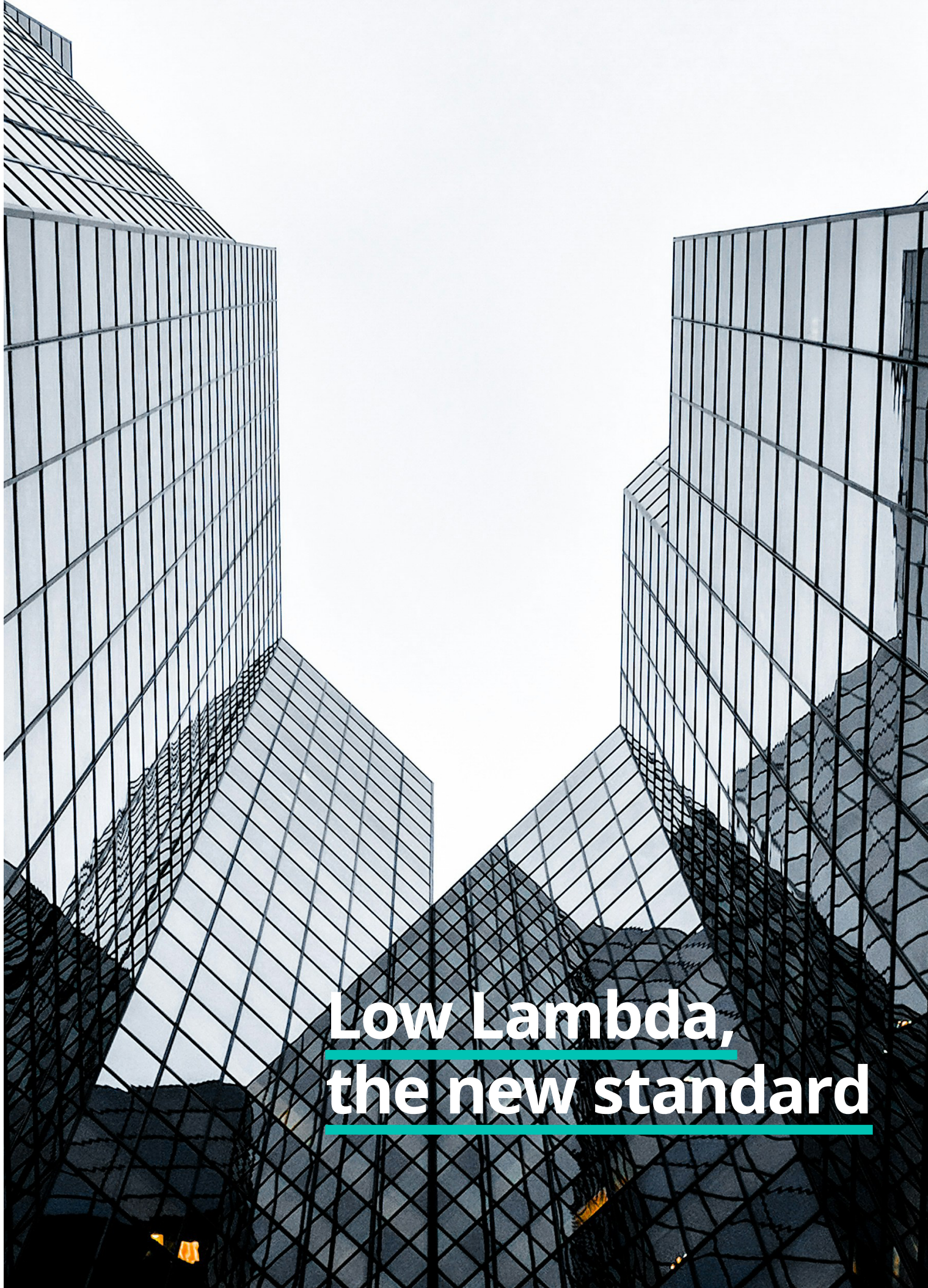
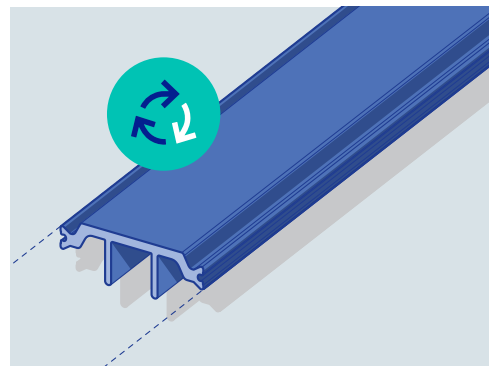
With our innovative Low Lambda polyamide-based material you get a certified and reliable Lambda value of 0.21 W/(mK)^* and with it the best all around solution.

* 0.198 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

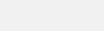
To take a step further in the increased use of eco-friendly materials, we offer recycled polyamide-based material that fulfills our high quality and processing standards. This includes both Standard PA 66 GF25 and Low Lambda options, ensuring a versatile range of sustainable solutions tailored to your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



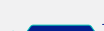
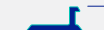
Low Lambda, the new standard

Standard profiles Low Lambda Polyamide

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

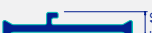
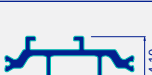
12 mm	16 mm	20 mm	22 mm	23 mm	24 mm
 839200	 855400	 824300	 817700	 833100	 842400
	 856000	 835200	 847500		 853300
		 830600	 842300		 804100
		 834600	 818000		 828300
		 842700			 833800
		 845700			 842200
		 829300			 866000
					 829400
					 813900
					 847700
					 854100
					 834000

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

24 mm	26 mm	27 mm	28 mm	29 mm
 853400	 829200	 824200	 854800	 815200
 828200	 859700		 809700	 824100
 848600	 855300		 806100	 824000
 852900	 857600		 850300	
 804200	 855200		 803300	
 811000	 858800		 805900	
 854700	 863700		 850400	
 858500	 857500		 809600	
 858400			 803200	
 850800			 859800	
 845600				
 847600				

Standard profiles Low Lambda Polyamide

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

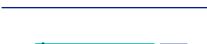
30 mm	32 mm	34 mm		35 mm
 846500	 823600	 821100	 838700	 830100
 800200	 861700	 807600	 831400	 861300
 809800	 803000	 849100	 802800	 821000
 860000	 851700	 802200	 838600	 846300
	 803100	 857900	 855100	 857800
	 806300	 800900	 813300	
		 833300	 866100	
		 811800	 811500	
		 823800	 813200	
		 833200	 825300	
		 862200	 838500	
		 835300	 849200	

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36 mm	37 mm	38 mm	39 mm		40 mm
 809900	 829900	 863900	 810800	 823400	 841900
 840200	 813700	 843600	 827300	 805000	 806400
 851600		 808000	 801600	 800800	 865600
			 842000		 848200
			 827200		
			 805100		
			 801500		
			 842100		
			 821300		
			 827100		
			 855500		
			 801400		

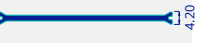
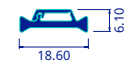
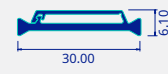
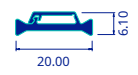
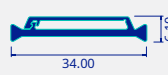
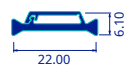
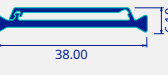
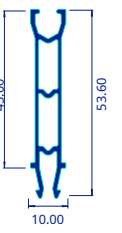
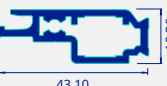
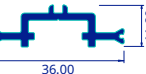
Standard profiles Low Lambda Polyamide

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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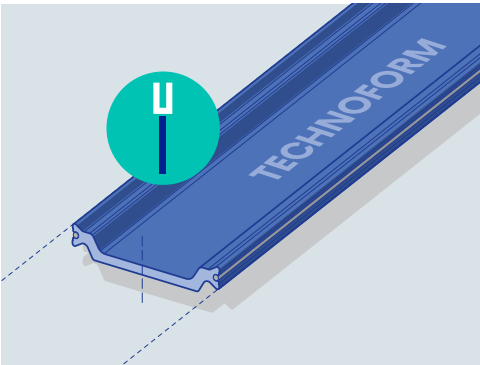
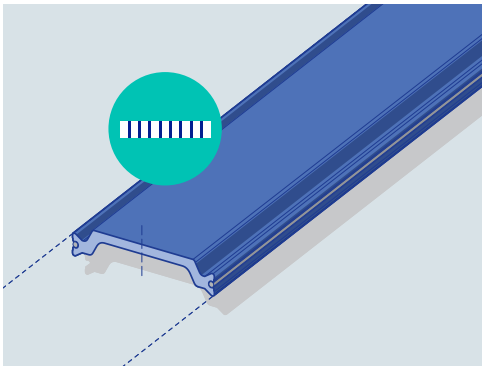
54 mm	55 mm	58 mm	60 mm	Anti bi-metal	
 812600	 833500	 862000	 862100	 835800	 810000
 812500				 850900	 824600
 822900				 835900	 850200
				 835400	
				 851000	
Profiles for sliding doors		Hidden sash	Curtin wall spacers		
 863000		 859600	 860900		
 863400		 864000			
 851800					
 862300					
 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.

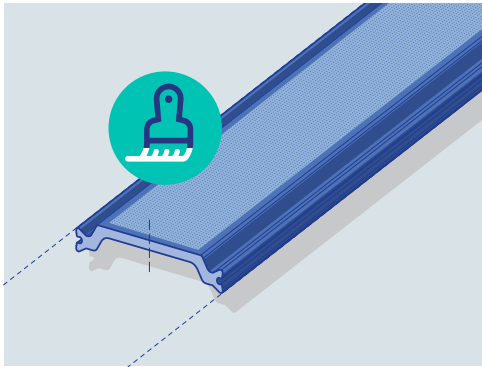
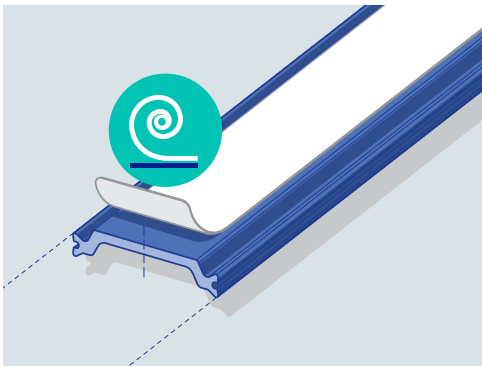


Lasermarking

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

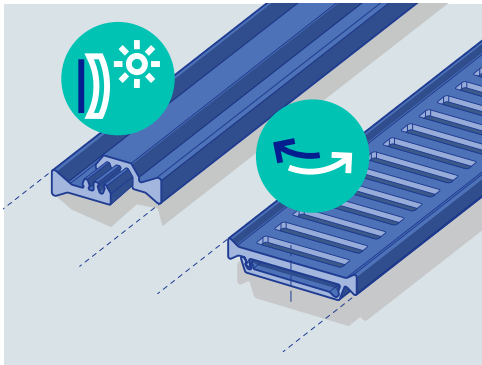
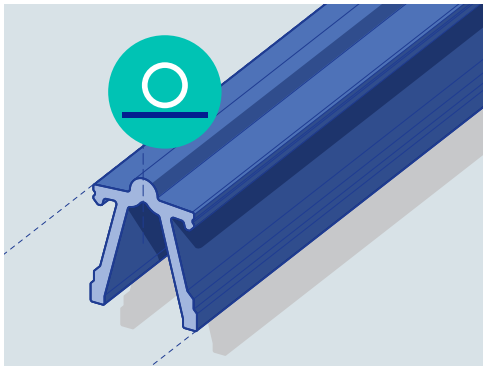
Achieve an excellent surface finish in polyamide coating by optimizing powder paint deposition while maintaining the low thermal conductivity of polyamide.

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.

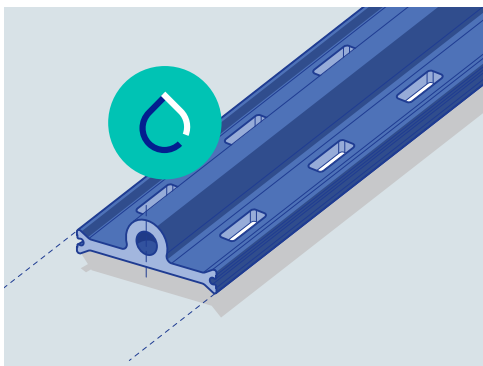


Anti bi-metal

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.

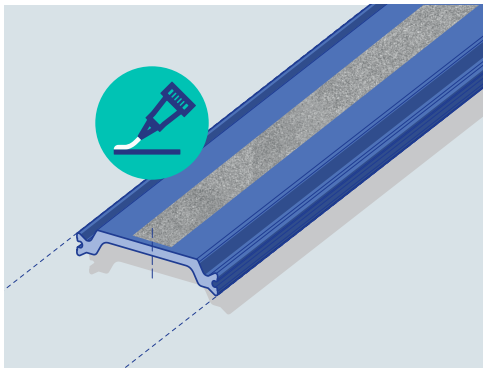
Drainage

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.

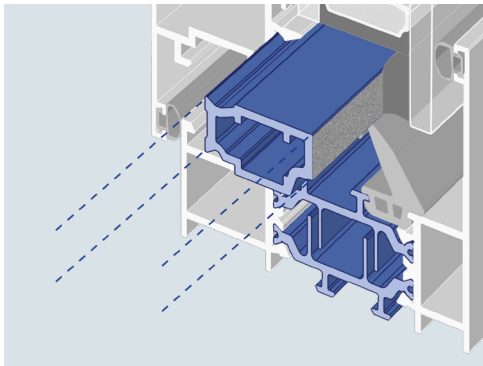
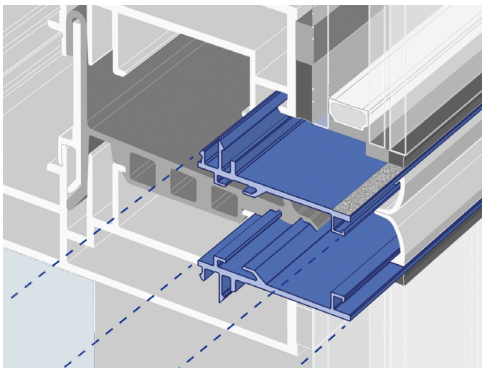


New possibilities

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.

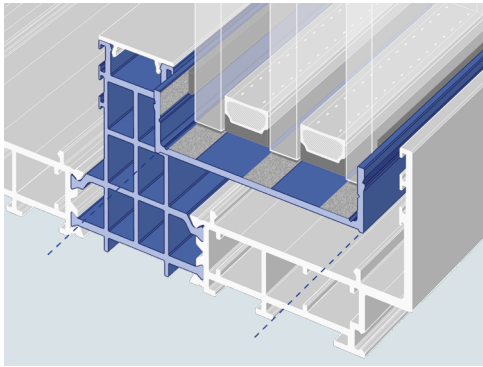


Hidden sash

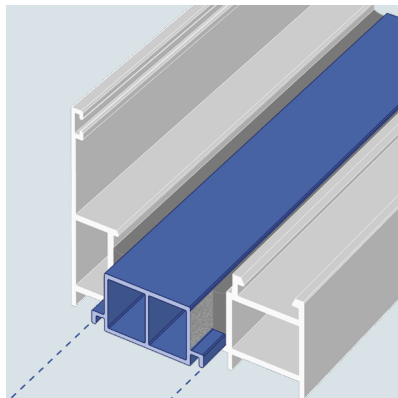
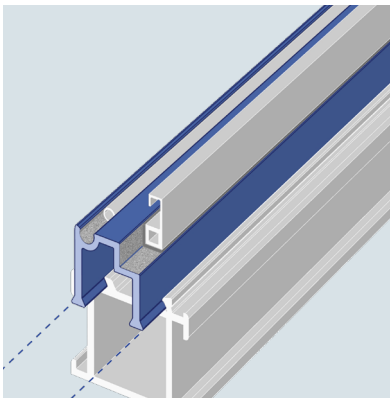
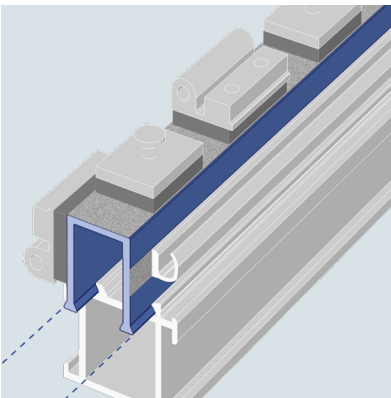
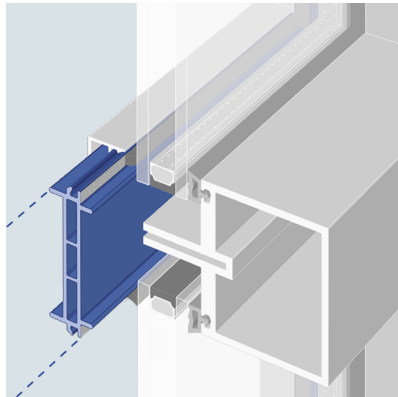
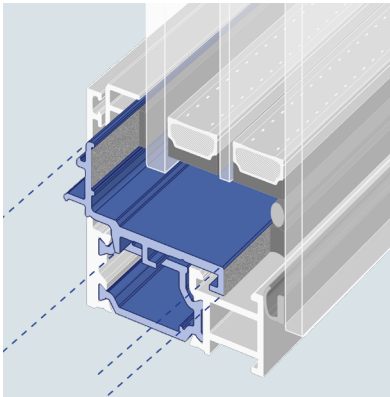
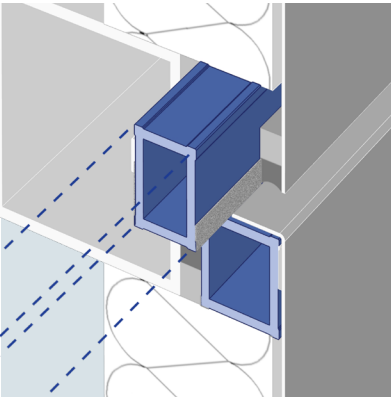
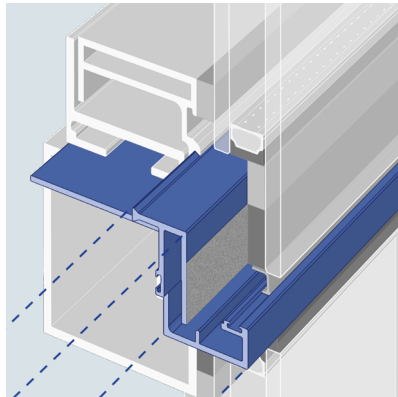
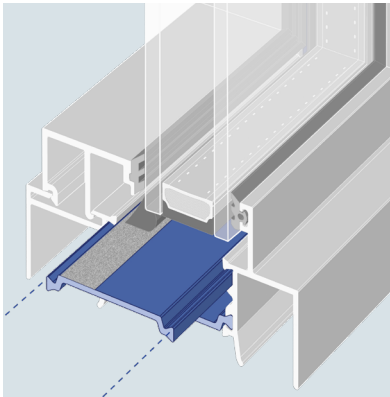
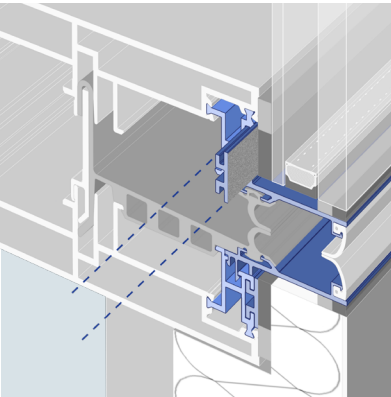
Adhesion Prime enables bonding between the glazing and the sash profile through polyamide strips, achieving a more seamless integration between the glazing and the frame. This innovation eliminates the need for external glazing beads and joints on the sash, streamlining the design. Additionally, it enhances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

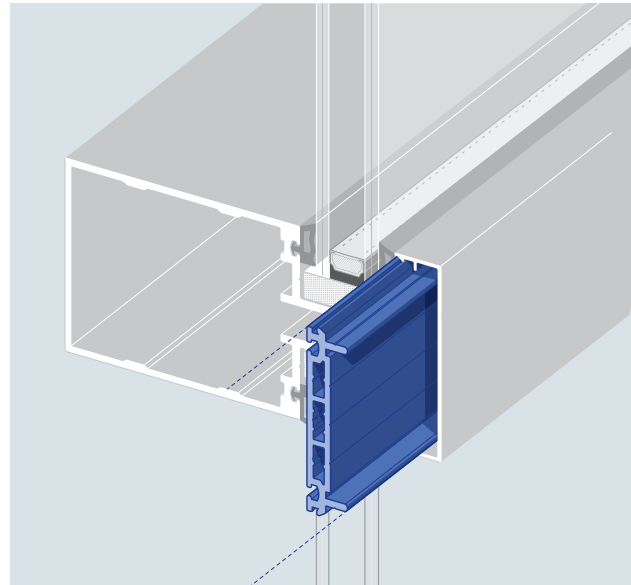


Endless possibilities



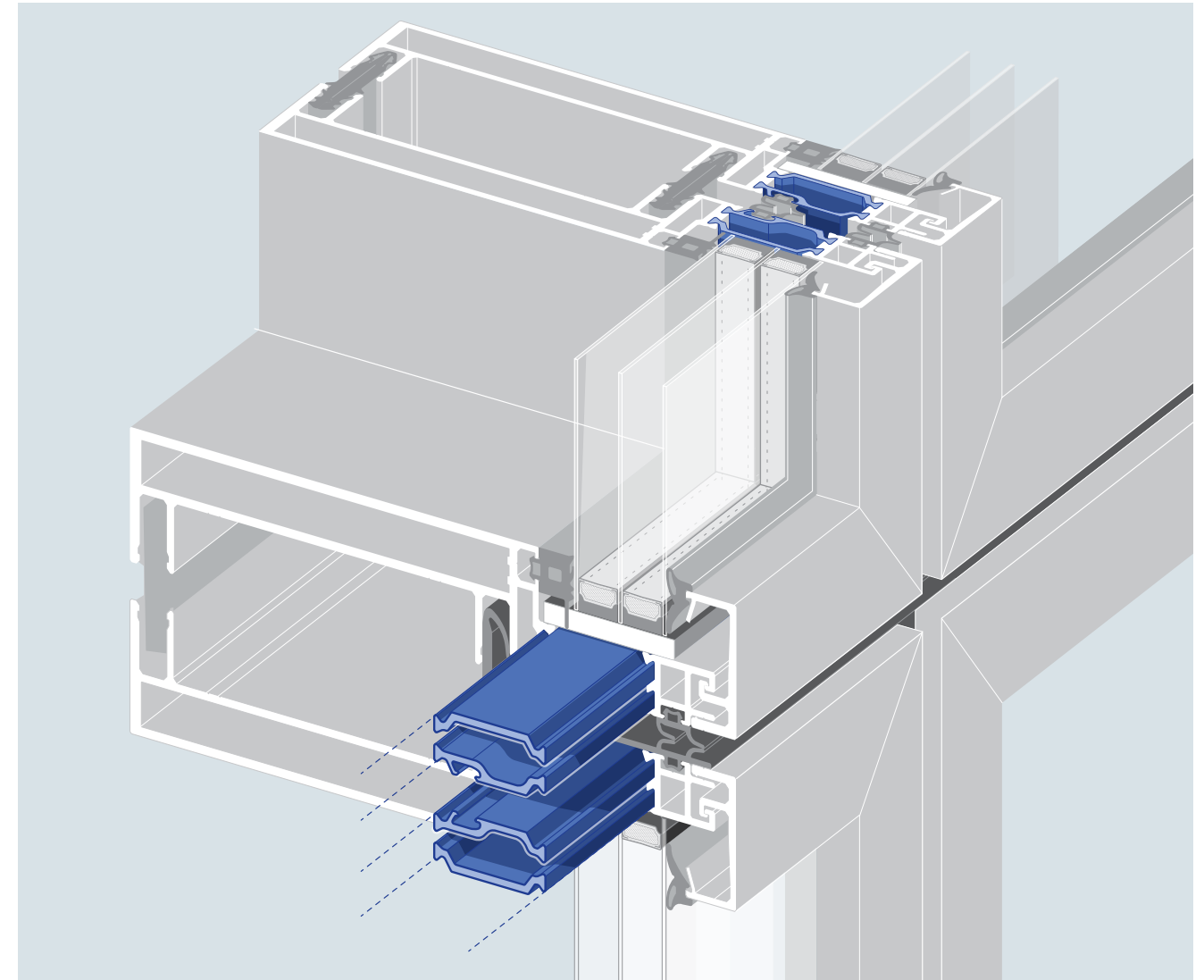
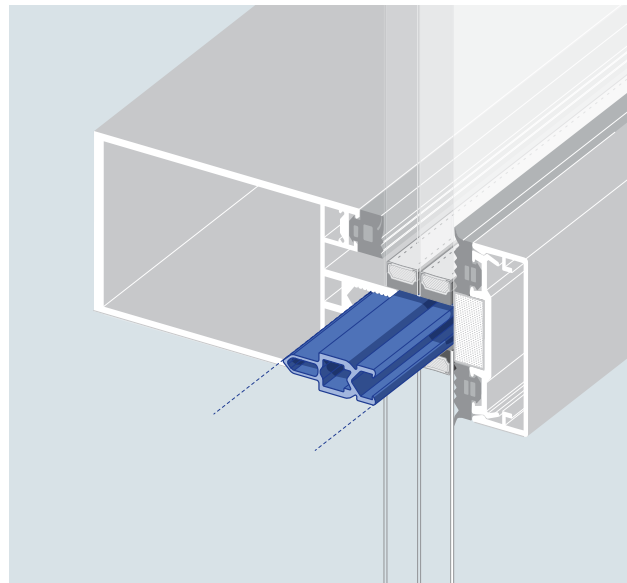
Facade solutions – boosting intelligence in modern buildings

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.



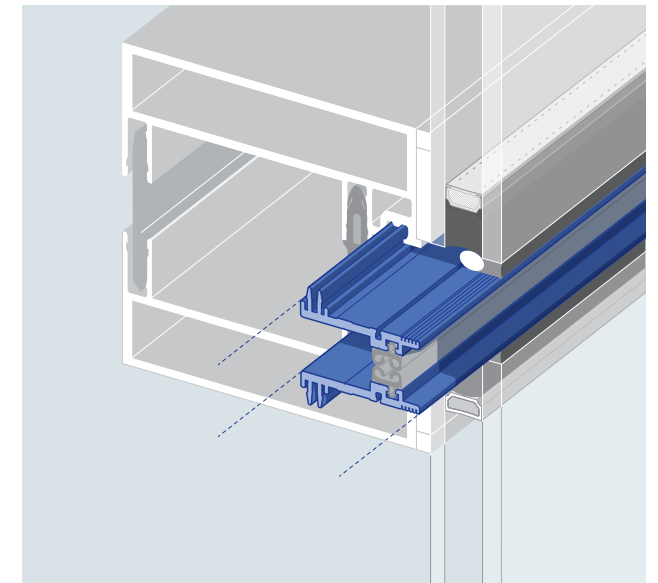
Stick facades

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/(m²K).



Unitized facades

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

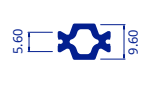




Standard profiles

PA66 GF25

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9 mm	10 mm	12 mm	13 mm	14 mm	
 254000	 204600#	 977500	13.4 mm	 202300	14.3 mm
	 244800	 926900 · 975300	 979200	 913700	 246900
	 269800#	 209900	13.5 mm	 202400	 247000
		 328100	 249100	 217100	14.6 mm
		 958241	 969505	 233200	 933900 · 951459
		 282000		 948600	 919200 · 951159
		 442500*		 493100#	 263400
				 486900	 259900#
				 948700	 951559 · 943300
				 235300	 241600
				 240200#	 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				 910300
 355700*	 371700	 937600	 221900	 335600#	 952200#
 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	16.5 mm	 286600#	 221200
 232900 · 265800	 277600*#	 940300	 977400	17.4 mm	 249200
 912000 · 955900 951359	 962259#	 981700	16.6 mm	 242700#	 964000
 345800#	 970559	 296600	 420800*#	17.8 mm	 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	18.6 mm		 316700	 933200	 228900
 224100	 210900	 276000	 316900	 912500 · 957600	 499500#
 290600	 273300	 250800	 316800	 277400	 387200*
 357400*	 912100 · 912159	 979300		 957300	 234700
 955200	 912800	 330500		 246500	 269100*
 277000	 977700	 952459		 941700	 945800
 343900	 279300*			 942600	 562100
 235400	 332700*			 271000	 957400
 322100*	 360500*			 296200	 937000
 248300	 276800			 976600	 444500
 955300	 324600			 249900	 228700
	 226300			 250100	 218500

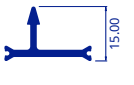
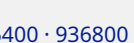
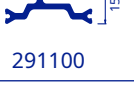
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20 mm		21 mm	22 mm		23 mm
 964200	 250000	 556500	 202200	 977200	 283000#
 271100	 439500*#	 357500*	 242900	 413800	 538800
 966500	20.6 mm		 556400	 908400	 320400
 306700	 221500#		 269700	 286700	 282600
 325500	 221600#		 966605	 389600	
 283600			 978700	 245800	
 493600			 413700	 491600	
 297800*			 228100	 439100*	
 924900			 271300*		
 964100			 243000		
 271200			 431300		
 330700			 245900		

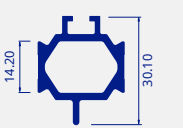
Standard profiles Polyamide

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

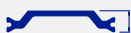
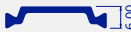
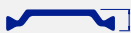
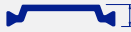
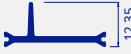
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*Article production in America or Asia / #Head not compatible to Standard Groove

24 mm		25 mm		26 mm	
 231800	 578400	 910400	 25.3 mm	 212600	 410800
 358900	 964559#	 979400	 470200*	 254800	 401700
 297200		 950159	 329600*	 908500	 321800
 297100	 24.8 mm	 974500	 329700*	 260600	 978900
 214000	 215600	 249500	 329800*	 453100	 426400
 489900	 246100	 946700	 25.5 mm	 304500	 359600
 969859	 215700	 249600	 220400	 491200	 394200
 962659	 265000	 974600		 289300#	 208700
 214800	 214300	 249700		 978800	 264100
 224600	 282100			 357700	 300900
 413900	 246000			 321100	
 439400#				 544900	

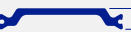
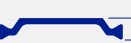
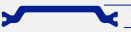
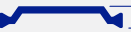
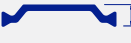
Standard profiles Polyamide

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

27 mm	28 mm			29 mm	30 mm
 971605	 222500	 354400*	 286800	 404600	 219500
 932000	 948400	 475500	 286900		 220800
 253800	 927700	 355400	 229100		 246200
 253900	 618200	 548200	 308600		 908600
27.5 mm	 214700	 571000	 261900		 273800
 942700	 223500	 321500	 242100		 324100#
	 321300	 566100			 282300
	 516900	 450000			 947400
	 368600	 280800			 506200
	 509900	 319600			 247300
	 450100	 271600			 478600
	 280900	 975100*			 486400

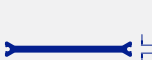
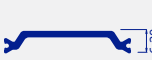
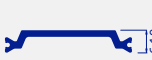
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*Article production in America or Asia / #Head not compatible to Standard Groove

30 mm		31 mm	32 mm		34 mm
 516600	 247400	 268300	 239300	 418400	 464800
 225500	 364500		 354700	 256000	 268400
 493800	 352400		 303700	 256300	 349300
 393000	 368700		 371800	 563100	 478700
 414400	 414300		 256100	 412200	 935100
 241200	 349400		 494500	 218100	 949200
 493700	 277100*#		 939700	 216100	 986200
 974700			 259800	 492100	 438400
 312000			 448300	 273900	 265400
 282400			 247700#	 488300	 384200
 364600			 256200		 218600
 247500			 496000		 269200

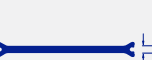
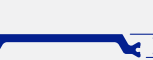
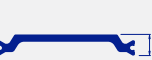
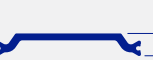
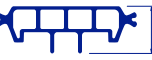
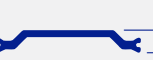
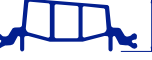
Standard profiles Polyamide

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	35.3 mm	 478100
 986300	 423300	 543300	 215500	 485500*	
 265600	 386800	 503700	 358700	 477400*	
 587800	 443900	34.8 mm	 452300	 477500*	
 532600	 260900	 300700	 418800		
 357000	 240800	 300600	 423700*		
 377100	 400100		 427100		
 559400	 265500		 418700		

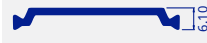
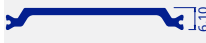
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*Article production in America or Asia / #Head not compatible to Standard Groove

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		

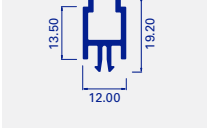
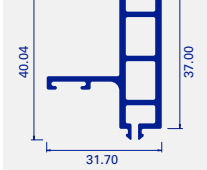
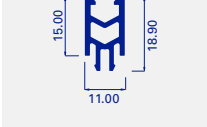
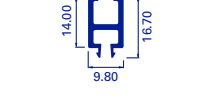
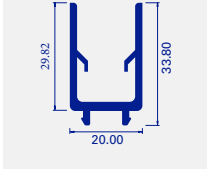
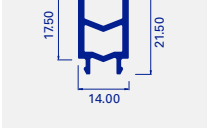
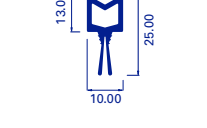
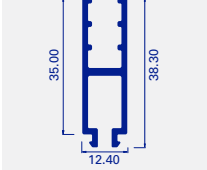
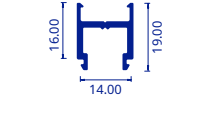
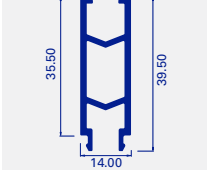
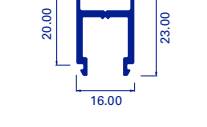
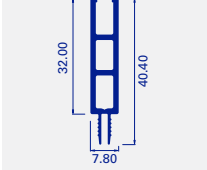
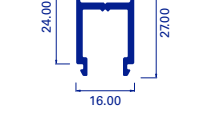
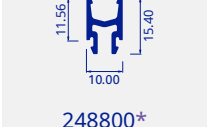
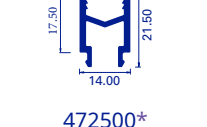
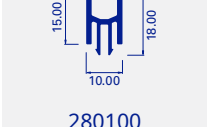
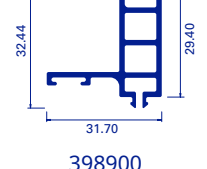
Standard profiles Polyamide

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

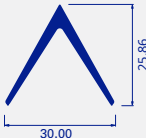
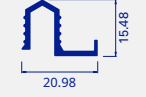
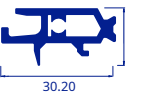
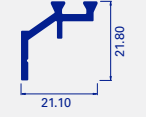
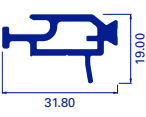
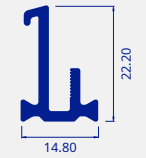
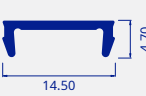
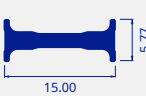
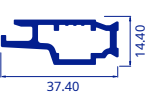
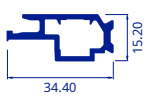
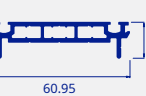
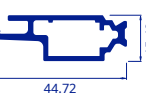
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60 mm	64 mm	77 mm	Curtain wall spacers		
 463500*	 328600	 261000*	 217300	 309900	 399000
	 507600*		 218200	 310000	 337500
	 507500*		 242300*	 341700	 337400
			 212500	 959000	
			 242400	 959100	
			 423200	 959200*	
			 248800*	 472500*	
		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

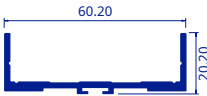
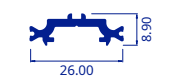
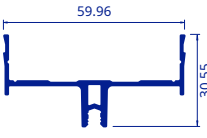
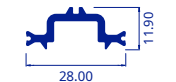
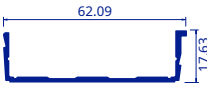
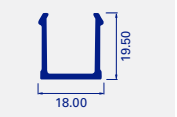
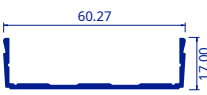
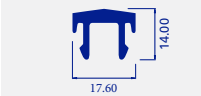
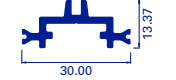
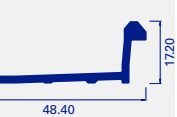
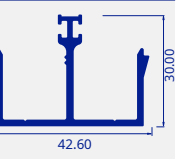
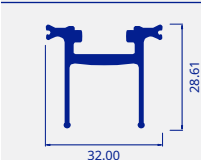
Standard profiles Polyamide

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 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 prepared from extruded insulating strips		Injection-moulded samples
			Dry ⁽¹⁾	Equilibrium moisture content ⁽²⁾	Dry ⁽¹⁾
melting temperature	EN ISO 11357-3	°C	min. 250 ⁽³⁾	min. 250 ⁽³⁾	min. 250 ⁽³⁾
density	EN ISO 1183-1 or -3	g/cm ³	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
shore hardness D	EN ISO 868	-	82 +/- 4 ⁽⁴⁾	78 +/- 4 ⁽⁴⁾	84 +/- 2
impact strength	EN ISO 179-1	kJ/m ²	min. 30 or without break ⁽⁵⁾	min. 40 or without break ⁽⁵⁾	min. 35 ⁽⁶⁾
tensile strength	EN ISO 527-2 and -4	N/mm ²	min. 80 ⁽⁷⁾	min. 50 ⁽⁷⁾	min. 110 ⁽⁸⁾
Young's modulus	EN ISO 527-2 and -4	N/mm ²	min. 4500 ⁽⁷⁾	min. 2000 ⁽⁷⁾	min. 6000 ⁽⁸⁾
elongation at break	EN ISO 527-2 and -4	%	min. 3 ⁽⁷⁾	min. 7 ⁽⁷⁾	min. 3 ⁽⁸⁾

¹⁾ Sample water content less than 0.2 % by weight
²⁾ Fast conditioning acc. to EN ISO 1110 (23 °C / 50 %)
³⁾ Maximum temperature 300 °C
⁴⁾ Specimen thickness 2 mm, unstacked
⁵⁾ Specimen 2fU (50 mm x 10 mm x 2 mm)
⁶⁾ Specimen 1fU (80 mm x 10 mm x 4 mm)
⁷⁾ Specimen Type 1BA
⁸⁾ Specimen Type 1A

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 prepared from extruded insulating strips	
			Dry ⁽¹⁾	Equilibrium moisture content ⁽²⁾
melting temperature	EN ISO 11357-3	°C	min. 250 ⁽³⁾	min. 250 ⁽³⁾
density	EN ISO 1183-1 or -3	g/cm ³	1.0 +/- 0.1	1.0 +/- 0.1
annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5
shore hardness D	EN ISO 868	-	77 +/- 4 ⁽⁴⁾	67 +/- 4 ⁽⁴⁾
impact strength	EN ISO 179-1	kJ/m ²	min. 20 ⁽⁵⁾	min. 30 ⁽⁵⁾
tensile strength	EN ISO 527-2 and -4	N/mm ²	min. 50 ⁽⁶⁾	min. 35 ⁽⁶⁾
Young's modulus	EN ISO 527-2 and -4	N/mm ²	min. 2900 ⁽⁶⁾	min. 1300 ⁽⁶⁾
elongation at break	EN ISO 527-2 and -4	%	min. 3 ⁽⁶⁾	min. 8 ⁽⁶⁾

¹⁾ Sample water content less than 0.2 % by weight
²⁾ Fast conditioning acc. to EN ISO 1110 (23 °C / 50 %)
³⁾ Maximum temperature 300 °C
⁴⁾ Specimen thickness 2 mm, unstacked
⁵⁾ Specimen 2fU (50 mm x 10 mm x 2 mm)
⁶⁾ Specimen Type 1BA

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 prepared from extruded insulating strips		Injection-moulded samples
			Dry ⁽¹⁾	Equilibrium moisture content ⁽²⁾	Dry ⁽¹⁾
melting temperature	EN ISO 11357-3	°C	min. 250 ⁽³⁾	min. 250 ⁽³⁾	min. 250 ⁽³⁾
density	EN ISO 1183-1 or -3	g/cm ³	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
shore hardness D	EN ISO 868	-	82 +/- 4 ⁽⁴⁾	78 +/- 4 ⁽⁴⁾	84 +/- 2
impact strength	EN ISO 179-1	kJ/m ²	min. 30 or without break ⁽⁵⁾	min. 40 or without break ⁽⁵⁾	min. 35 ⁽⁶⁾
tensile strength	EN ISO 527-2 and -4	N/mm ²	min. 80 ⁽⁷⁾	min. 50 ⁽⁷⁾	min. 110 ⁽⁸⁾
Young's modulus	EN ISO 527-2 and -4	N/mm ²	min. 4500 ⁽⁷⁾	min. 2000 ⁽⁷⁾	min. 6000 ⁽⁸⁾
elongation at break	EN ISO 527-2 and -4	%	min. 3 ⁽⁷⁾	min. 7 ⁽⁷⁾	min. 3 ⁽⁸⁾

¹⁾ Sample water content less than 0.2 % by weight
²⁾ Fast conditioning acc. to EN ISO 1110 (23 °C / 50 %)
³⁾ Maximum temperature 300 °C
⁴⁾ Specimen thickness 2 mm, unstacked
⁵⁾ Specimen 2fU (50 mm x 10 mm x 2 mm)
⁶⁾ Specimen 1fU (80 mm x 10 mm x 4 mm)
⁷⁾ Specimen Type 1BA
⁸⁾ Specimen Type 1A
⁹⁾ The polyamide 66 used consists of 100% post industrial recycled materials.

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 prepared from extruded insulating strips	
			Dry ⁽¹⁾	Equilibrium moisture content ⁽²⁾
melting temperature	EN ISO 11357-3	°C	min. 250 ⁽³⁾	min. 250 ⁽³⁾
density	EN ISO 1183-1 or -3	g/cm ³	1.0 +/- 0.1	1.0 +/- 0.1
annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5
shore hardness D	EN ISO 868	-	77 +/- 4 ⁽⁴⁾	67 +/- 4 ⁽⁴⁾
impact strength	EN ISO 179-1	kJ/m ²	min. 20 ⁽⁵⁾	min. 30 ⁽⁵⁾
tensile strength	EN ISO 527-2 and -4	N/mm ²	min. 50 ⁽⁶⁾	min. 35 ⁽⁶⁾
Young's modulus	EN ISO 527-2 and -4	N/mm ²	min. 2900 ⁽⁶⁾	min. 1300 ⁽⁶⁾
elongation at break	EN ISO 527-2 and -4	%	min. 3 ⁽⁶⁾	min. 8 ⁽⁶⁾

¹⁾ Sample water content less than 0.2 % by weight
²⁾ Fast conditioning acc. to EN ISO 1110 (23 °C / 50 %)
³⁾ Maximum temperature 300 °C
⁴⁾ Specimen thickness 2 mm, unstacked
⁵⁾ Specimen 2fU (50 mm x 10 mm x 2 mm)
⁶⁾ Specimen Type 1BA
⁷⁾ The polyamide 66 used consists of 100% post industrial recycled materials.

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.
- CCMSA · 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

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