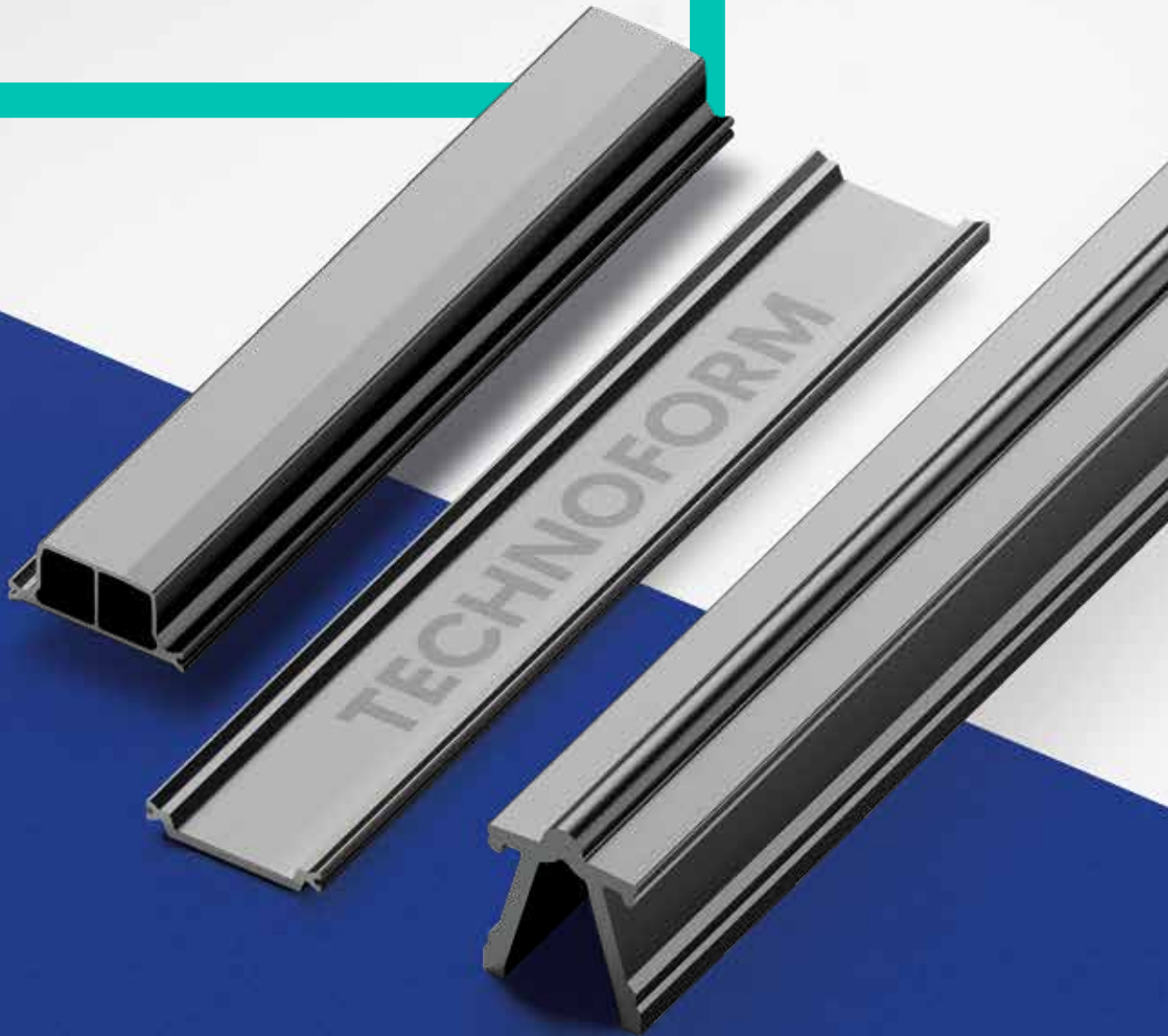
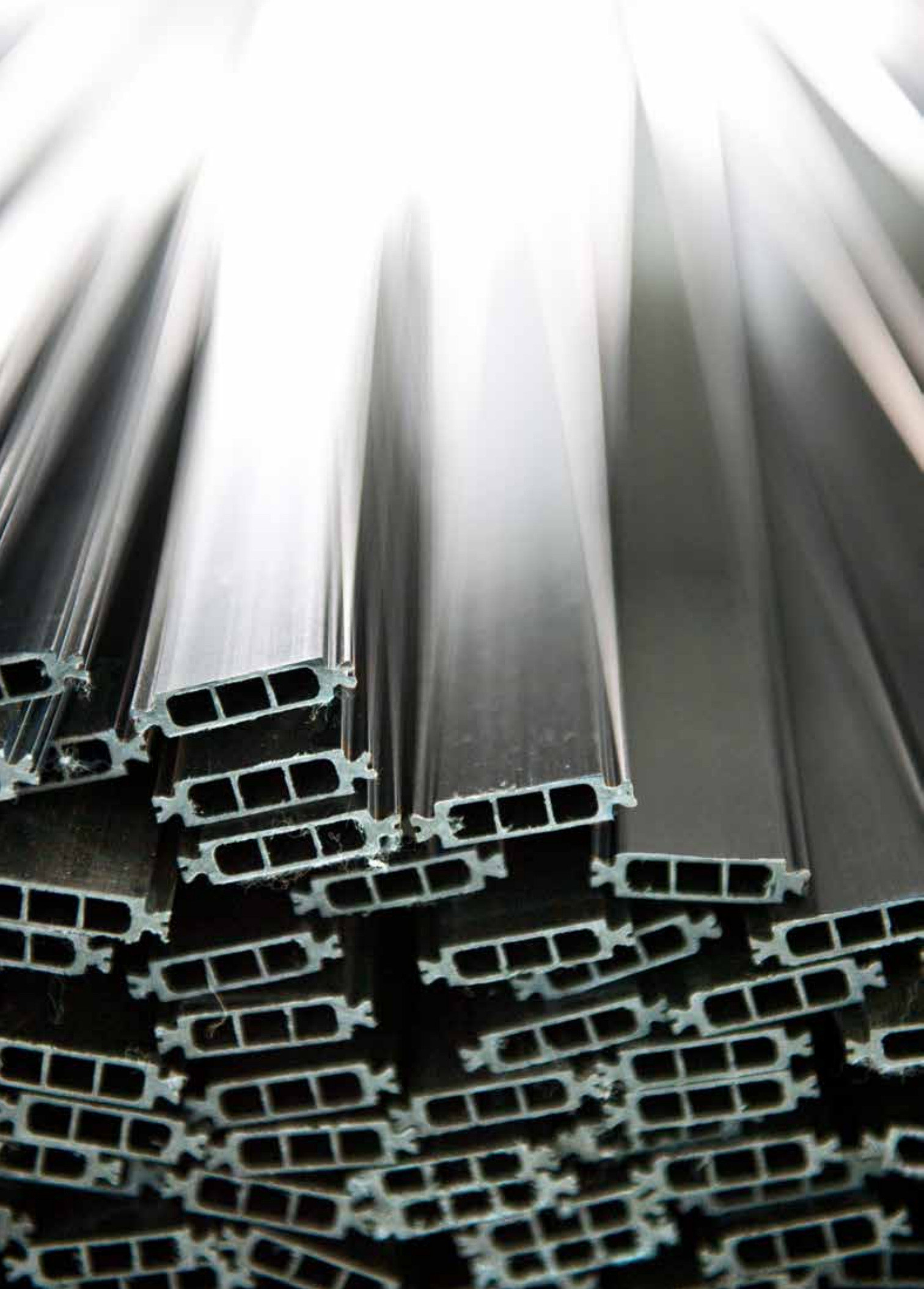


Standard profiles 2019



**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.

Standard profiles Polyamide

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

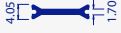
9 mm	10 mm	12 mm	13 mm	14 mm	
 254000	 204600 [#]	 977500	13,4 mm  979200	 202300	14,3 mm  246900
	 269800 [#]	 926900 · 975300		 913700	
	 244800	 282000	13,5 mm  249100	 202400	 247000
		 442500*		 217100	14,6 mm  933900 · 951459
		 209900	 969505	 233200	
		 328100		 948600	 919200 · 951159
		 958241		 486900	 951559
				 948700	 241600
				 235300	 980600
				 493100 [#]	 268200
				 240200 [#]	 355700*
					 263400

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14 mm					15 mm
14,6 mm	14,8 mm				 910300
 223900	 280600	 975800	 271500	 488200	 952200*
 313000*	 931000 · 951659	 279000	 300800	 977000	 260500
 259900*#	 216800	 203900	 273500	 295600	 260400
	 271800	 208500	 320100*	 299000*	
	 924300 · 945500 951259	 952100 · 962059	 257100	 486100*	
	 201000	 406100#	 270300		
	 931100 · 951759	 378600	 289700		
	 941600 · 951859	 937600	 937700		
	 961459	 221400	 961559		
	 403400	 237600	 987400		
	 925500	 246700	 335600#		

Standard profiles Polyamide

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

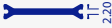
16 mm				17 mm	18 mm
 229400#	 941800	 221100	16,5 mm	 286600#	 955100
 962159#	 221000	 227500		17,4 mm	 908300
 973500	 277200	 270100	16,6 mm	 242700#	 221200
 232900 · 265800	 961859	 296900		17,8 mm	 249200
 912000 · 955900 951359	 963900	 961959	420800*#	 330400	 964000
 345800#	 203200#	 977600		 325300	 465400
 962259#	 219900	 445500			 233800
 970559	 270000	 977900			 270200
 973600	 940800	 940300			 955000
 942100	 976000	 981700			 224100
 976100	 296500	 296600			 267100
 265900	 214400	 277600*#			 276900

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18 mm			19 mm	20 mm	
 290600	18,6 mm		 316700	 933200	 296200
 357400*	 210900	 332700*	 316900	 912500 · 957600	 976600
 235400	 273300	 276000	 316800	 387200*	 249900
 955200	 912100 · 912159	 250800		 234700	 439500*
 277000	 944300	 952459		 269100*	 250100
 322100*	 912800	 979300		 945800	 957400
 343900	 360500*	 330500		 277400	 444500
 248300	 276800			 957300	 228700
 955300	 324600			 246500	 218500
	 226300			 941700	 964200
	 977700			 942600	 271100
	 279300*			 271000	 306700

Standard profiles Polyamide

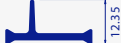
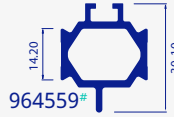
Our standard profiles are available in Recycled and Standard PA 66 GF25, dry impact resistant.

20 mm		21 mm	22 mm		23 mm
 325500	20.6 mm	 357500*	 202200	 245900	 283000#
 297800*			 242900	 977200	 282600#
 924900			 908400	 413800	 320400
 964100			 228100	 254100	
 271200			 271300*	 286700	
 250000			 269700	 389600	
 283600			 966605	 245800	
 493600			 978700	 439100*	
 330700			 413700		
 228900			 504400*		
			 243000		
			 431300		

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24 mm

 961759 · 933100	 271400*	 294100	 495000	 228800	 251800
 965159#	 927200	 976700	 403500	 300400	 510600
 390900	 925200	 940400	 464600	 359800	 418200
 241700#	 975700	 203100#	 479700	 546100	 406200#
 223700	 956059	 404000*	 502900	 443700	 969959
 919300 · 975900	 957500	 228200	 231900	 256800	 479800
 979500	 350300	 415100	 268100	 273400	 399200
 459500	 355000	 956159	 294200	 464700	 439400
 975400	 360800	 291100	 964300	 516200	 214800
 987200	 954800	 253600	 400800	 330600	 224600
 220300	 235100	 360900	 979900	 231800	 964559#
 246300*	 268000	 322000	 224000	 358900	 962659

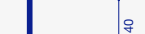
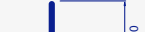
Standard profiles Polyamide

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

24 mm		25 mm		26 mm	
 969859	24,8 mm	 910400	25,3 mm	 212600	 359600
 969759	 246100	 979400	 470200*	 254800	 264100
 289800	 215600	 950159	 329600*	 260600	 357700
 214000	 215700	 974500	 329700*	 453100	 321100
 489900	 265000	 249500	 329800*	 908500	 300900
 984300	 214300	 946700	25,5 mm	 304500	 259300
	 282100	 974600	 220400	 491200	
	 246000			 289300#	
				 978800	
				 321800	
				 978900	
				 426400	

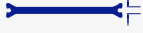
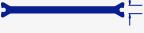
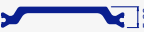
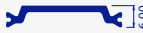
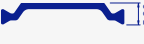
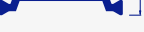
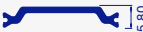
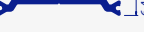
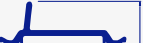
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*Article production in America or Asia / #Head not compatible to Standard Groove

27 mm	28 mm	29 mm	30 mm
 271900*	 222500	 280800	 404600
 932000	 948400	 319600	 219500
 253800	 927700	 321500	 220800
 253900	 214700	 326800	 246200
27,5 mm	 223500	 286800	 273800
 942700	 321300	 286900	 324100#
	 450100	 271600	 282300
	 280900	 975100*	 947400
	 354400	 229100	 506200
	 475500	 308600	 247300
	 355400	 261900	 478600
	 450000	 242100	 486400
			 277100*#

Standard profiles Polyamide

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

31 mm	32 mm		34 mm		
 268300	 239300	 218100	 464800	 400100	 986200
	 354700	 412200	 268400	 260900	 438400
	 303700	 216100	 478700	 240800	 265400
	 371800	 492100	 935100	 321700	 265500
	 256100	 273900	 949200	 269200	 425000
	 494500	 488300	 349300	 425100	 437800
	 939700	 247700	 377100	 426300	 218400
	 256200	 495600	 378200	 429100	 384200
	 496000		 429300	 430400	 258800
	 418400		 437900	 266500	34,8 mm
	 256000		 422900	 986300	
	 256300		 443900	 265600	
					 300700
					 300600

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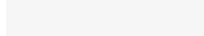
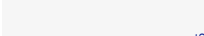
35 mm		36 mm	37 mm	38 mm	39 mm
 432000	 418800	 201300	 425200	 327800	 357900
 337700	 418500	 983400	 394600*	 219300	 452100
 418600	 418700	 392400	 394400*	 363700	 340000
 522100	 427100		 394500*	 437700	 340300
 215500	35,3 mm		 515000		 340100
 358700					 340200
 452300					 368500
 516500*					
 423700*					
 516400*					
 423500*					
 418900					

Standard profiles Polyamide

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

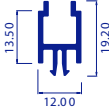
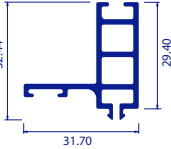
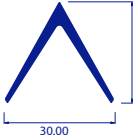
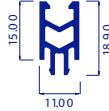
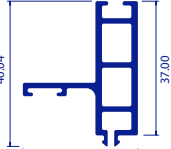
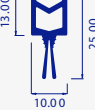
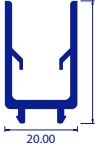
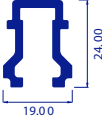
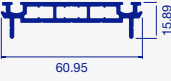
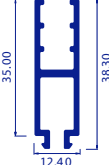
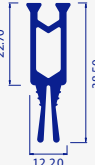
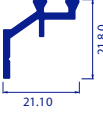
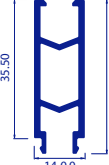
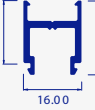
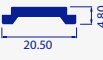
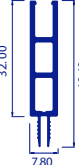
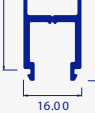
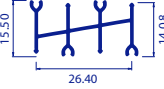
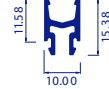
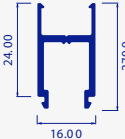
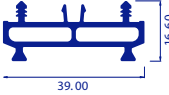
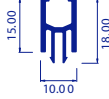
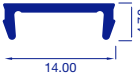
40 mm	42 mm	44 mm	45 mm	46 mm	48 mm
 357800	 286300	 502100	 466500	 200100	 365800
 444200	 334800	 501000			 457000
 287800		 352100			
 521000					

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50 mm	54 mm	60 mm	64 mm	77 mm
 419400	 419500	 463500*	 328600	 261000*
	 419600		 507500*	
	 462800		 507600*	
	 492200			

Standard profiles Polyamide

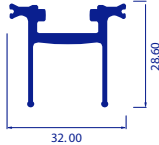
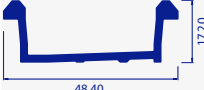
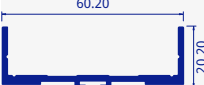
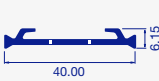
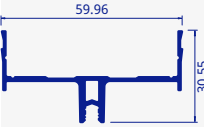
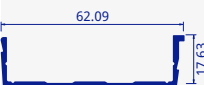
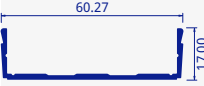
Our standard profiles are available in Recycled and Standard PA 66 GF25, dry impact resistant.

Curtain wall spacers			Operating Rods	Specials	
 217300	 309900	 398900	 224400	 200600	 432100*
 218200	 310000	 399000	 222400	 212100	 491700*
 242300*	 341700	 337500	 218000	 234800	 449500*
 212500	 341800	 337400	 289400*	 254400	Hidden sash
 242400	 959000		 254700	 263800	
 423200	 959100		 224500	 344400	
 248800*	 959200			 339700	
 280100	 472500*			 492000	

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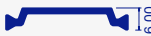
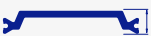
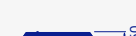
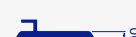
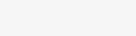
Anti-bi-metal

Profiles for sliding doors

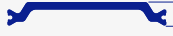
 458800	 339000	 200500#	 415500	 229000	 306200#
 317000	 464400	 979600#	 311300	 272700	 354300
 370000	 429900	 244900	 389900	 232600	 384300
 317100	 520900	 343200	 371900	 245000	Profiles for minimal sliding doors  440100
 339900	 521000	 385200	 977100	 255300	
 316200		 248100	 933000	 282200	 440200
 418100		 254500	 385100	 263000	 440300
 387500		 403600	 306300	 419000#	 440400

Standard profiles Low Lambda Polyamide

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

24 mm	28 mm	30 mm	32 mm	34 mm	36 mm
 804100	 803200	 800200	 803000	 802200	 809900
 804200	 803300	 809800	 803100	 802800	
 811000	 805900		 806300	 807600	
	 806100	30 mm Anti-bi-metal		 813300	
	 809600	 810000		 811500	
	 809700			 813200	
				 811800	

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38 mm	39 mm	40 mm	42 mm	44 mm	45 mm
 808000	 801600	 806400	 806800	 810700	 808100
	 801400				
	 800800				
	 801500				
	 805000				
	 805100				
	 810800				

50 mm	54 mm
 812800	 812600
	 812500

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 Typ 2fU (50 mm x 10 mm x 2 mm)
⁶⁾ Specimen Typ 1BA

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. 3.0 ⁽⁷⁾	min. 7.0 ⁽⁷⁾	min. 3.0 ⁽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 Typ 2fU (50 mm x 10 mm x 2 mm)
6) Specimen Typ 1fU (80 mm x 10 mm x 4 mm)
7) Specimen Typ 1BA
8) Specimen Typ 1A

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

Cooperation partners

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 Aluminum in Building
- BFRC · British Fenestration Rating Council

Portugal

- ANFAJE · Associação Nacional dos Fabricantes de Janelas Eficientes

Italy

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

Spain

- AEA · Asociación Española del Aluminio y Tratamientos de Superficie
- ASEFAVE · Asociación Española de Fabricantes de Fachadas Ligeras y Ventanas
- Tecnalia Research & Innovation

- ENSATEC · Laboratorio de Ensayos Tecnológicos

Europe

- Federation of European Window and Curtain Wall Manufacturers' Associations

North America

- AAMA · American Architectural Manufacturers Assn.
- GANA · Glass Association of North America
- NFRC · National Fenestration Rating Council

South America

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

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

Singapore

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

Korea

- KAFA · Korea Architectural Facade Association

Australia & New Zealand

- Window Association of New Zealand
- Australian Window Association
- AGGA · Australian Glass and Glazing Association

Certifications



Europe

TÜV Certification

according to ISO 9001: 2015
Cradle to Cradle Certified™ Gold

Germany

TÜV Certification

according to
ISO 14001: 2015
ISO 50001: 2011
OHSAS 18001: 2007

Belgium

SECO Certification

North America

TUV Certification

According to ISO 9001: 2015

Russia

GOST Certification

Cradle to Cradle Certified™ Gold

China

TÜV Certification

according to
ISO 14001:2005
ISO 9001:2008
ISO 18001:2007
OHSAS 18001: 2007

Hong Kong

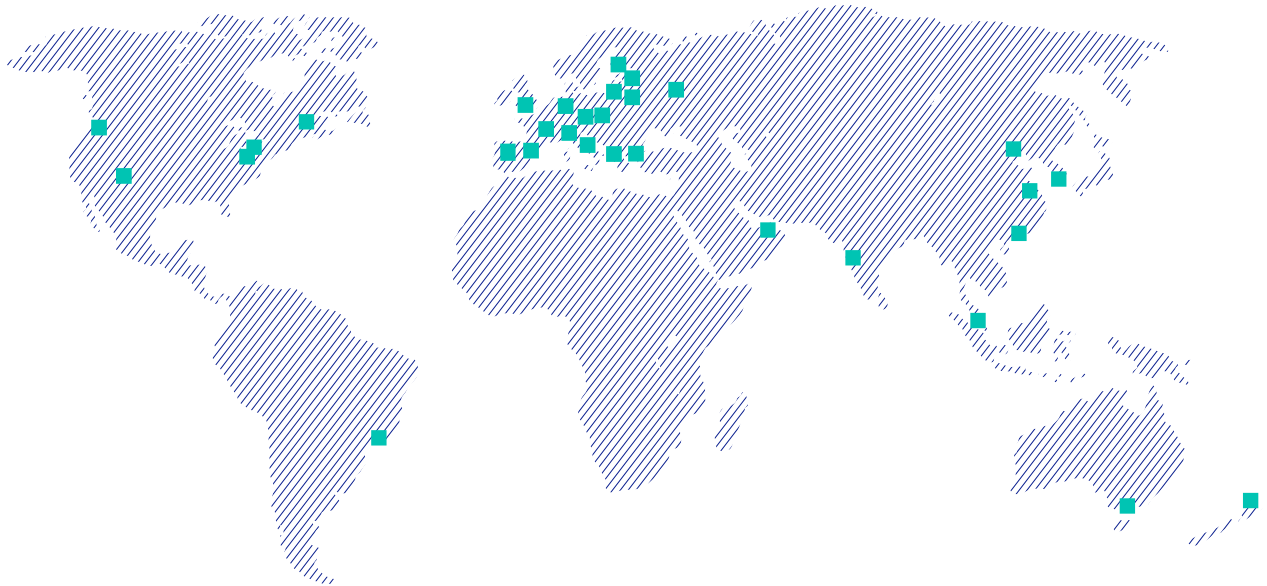
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ISO 9001:2008
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Singapore

Singapore Green Building Product – very good

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