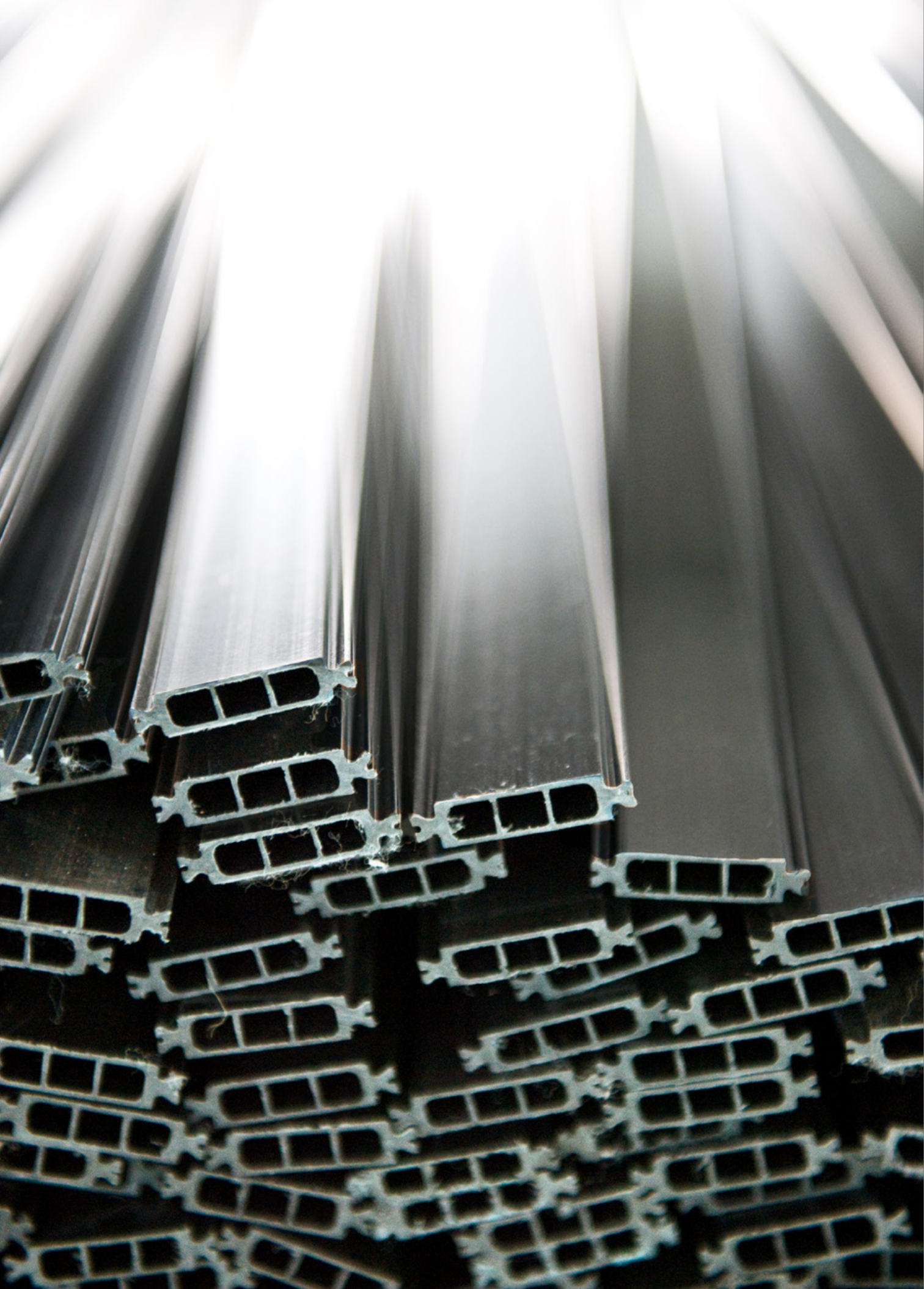


Standard profiles 2018

PA 66-GF25 and Low Lambda



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.

























































Standard profiles PA 66

Our Standard Profiles are available in Standard, Recycled, and Biobased PA.

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

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

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

Standard profiles PA 66

Our Standard Profiles are available in Standard, Recycled, and Biobased PA.

16 mm			17 mm	18 mm
229400#	941800	221100	16,5 mm	286600#
962159#	221000	227500	977400	17,4 mm
973500	277200	270100	16,6 mm	242700#
232900 · 265800	961859	296900	420800*#	17,8 mm
912000-955900 951359	963900	961959	330400	964000
345800#	203200#	977600	325300	465400
962259#	219900	445500	233800	270200
970559	270000	977900	955000	224100
973600	940800	940300	224100	267100
942100	976000	981700	224100	276900
976100	296500	296600	276900	
265900	214400	277600*#		





















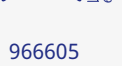


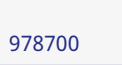


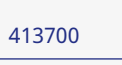

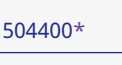
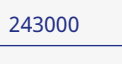

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*Article production in America or Asia / # Head not compatible to Standard Groove

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













































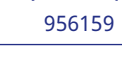






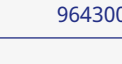



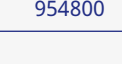
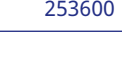






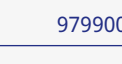







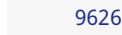
Standard profiles PA 66

Our Standard Profiles are available in Standard, Recycled, and Biobased PA.

20 mm	21 mm	22 mm	23 mm
 325500	20.6 mm	 202200	 245900
 297800*		 242900	 977200
 924900	 221600#	 908400	 413800
 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 PA 66

Our Standard Profiles are available in Standard, Recycled, and Biobased PA.

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	



























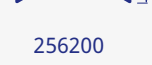

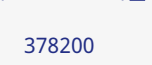

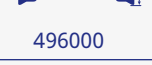
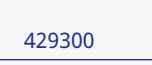

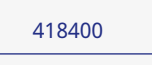
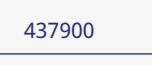


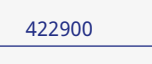










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27 mm	28 mm	29 mm	30 mm		
 271900*	 222500	 280800	 404600	 219500	 225500
 932000	 948400	 319600		 220800	 493800
 253800	 927700	 321500		 246200	 241200
 253900	 214700	 326800		 908600	 312000
27,5 mm	 223500	 286800		 273800	 247500
 942700	 321300	 286900		 324100#*	 493700
	 450100	 271600		 282300	 247400
	 280900	 975100*		 947400	 282400
	 354400	 229100		 506200	 393000
	 475500	 308600		 247300	 349400
	 355400	 261900		 478600	 516600
	 450000	 242100		 486400	 277100*#




















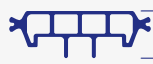















Standard profiles PA 66

Our Standard Profiles are available in Standard, Recycled, and Biobased PA.

31 mm	32 mm	34 mm	
 268300	 239300	 218100	 464800
	 354700	 412200	 400100
	 303700	 216100	 986200
 371800	 492100	 935100	 260900
 256100	 273900	 949200	 240800
 494500	 488300	 349300	 265400
 939700	 247700	 377100	 321700
 256200	 495600	 378200	 265500
 496000		 429300	 425000
 418400		 437900	 1505
 256000		 422900	 437800
 256300		 443900	 218400
		 265600	 384200
		 300700	 258800
		 300600	 34,8 mm














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35 mm	36 mm	37 mm	38 mm	39 mm
 432000	 201300	 425200	 327800	 357900
 337700	 983400	 394600*	 219300	 452100
 418600	 392400	 394400*	 363700	 340000
 522100	 418700	 394500*	 437700	 340300
 215500	35,3 mm	 515000		 340100
 358700	 485500*			 340200
 452300	 477400*			 368500
 516500*	 477500*			
 423700*				
 516400*				
 423500*				
 418900				

Standard profiles PA 66

Our Standard Profiles are available in Standard, Recycled, and Biobased PA.

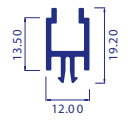
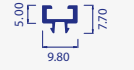
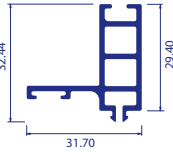

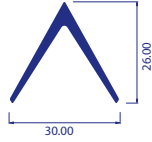

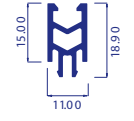
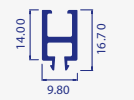
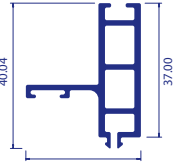



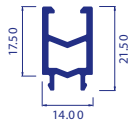
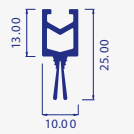
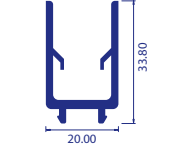

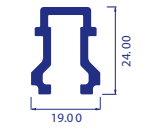

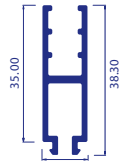
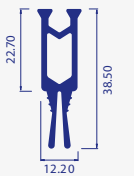
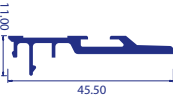
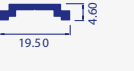
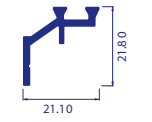
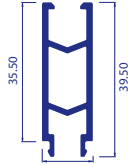
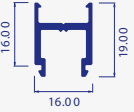
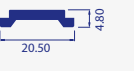
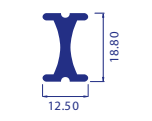
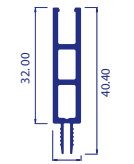
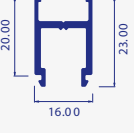

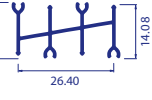

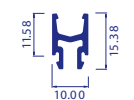
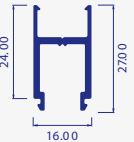

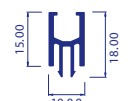
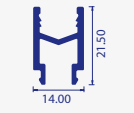

40 mm	42 mm	44 mm	45 mm	46 mm	48 mm
 357800	 286300	 502100	 466500	 200100	 365800
 444200	 334800	 501000			 457000
 287800		 352100			
 521000					

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

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




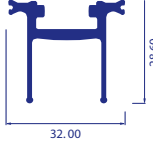




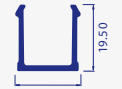

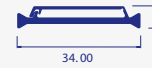






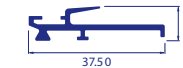
















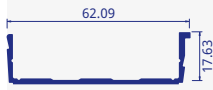



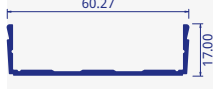
Standard profiles PA 66

Our Standard Profiles are available in Standard, Recycled, and Biobased PA.




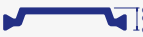



















Curtain wall spacers			Operating Rods		Specials	
 217300	 309900	 398900	 224400	 200600	 432100*	
 218200	 310000	 399000	 222400	 212100	 491700*	
 242300*	 341700	 337500	 218000	 234800	 449500*	
 212500	 341800	 337400	 289400*	 254400	Hidden sash	
 242400	 959000		 254700	 263800		
 423200	 959100		 224500	 344400	 375400	
 248800*	 959200			 339700		
 280100	 472500*			 492000		

000000 Article Number / **000000 New Article** /













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




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
 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

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 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 Fenster- und Fassadentechnik 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: 2004
ISO 5001: 2011
OHSAS 18001: 2007

Belgium

SECO Certification

Russia

GOST Certification
Cradle to Cradle Certified™ Gold

China

TÜV Certification
according to
ISO 14001:2005
ISO 9001:2008
ISO 18001:2007

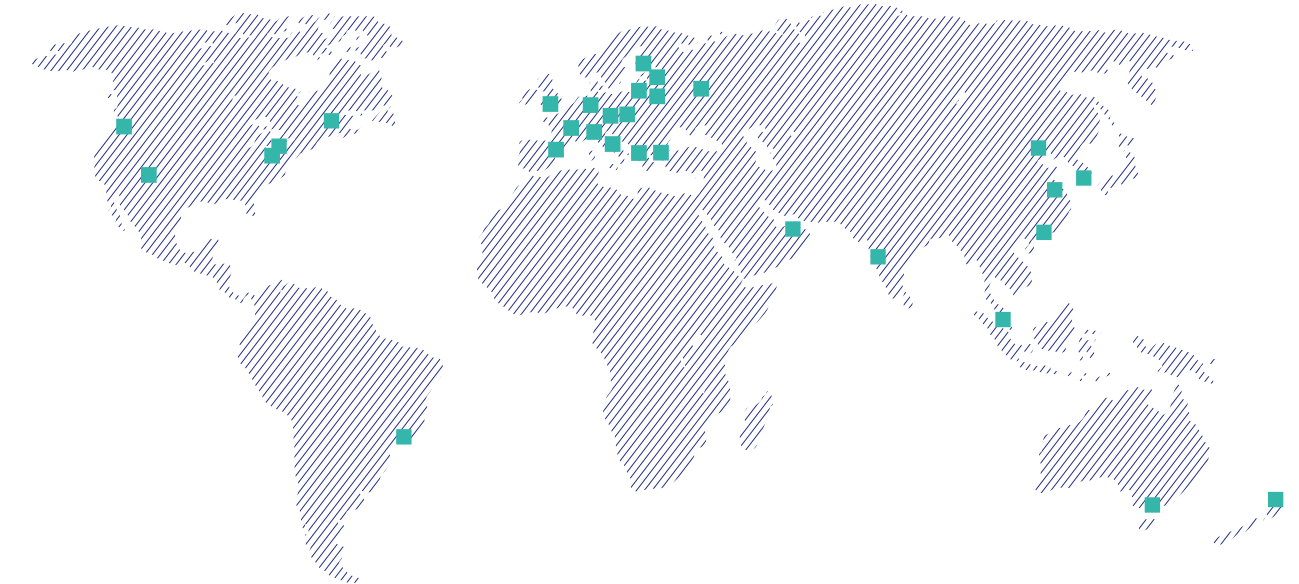
Hong Kong

TÜV Certification
according to
ISO 14001:2005
ISO 9001:2008
ISO 18001:2007

Singapore

Singapore Green Building Product – very good

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