

# Standard profiles 2022

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.



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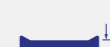

































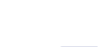








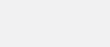

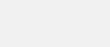



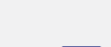

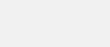

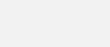
# Standard profiles

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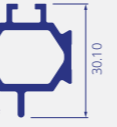
































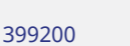




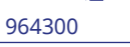
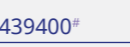



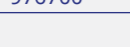

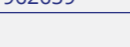

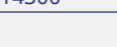





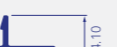






\* Article production in Asia / \* Head not compatible to Standard Groove















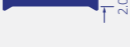
























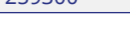











10 mm	12 mm	13.4 mm	14 mm	14 mm	14.8 mm	14.8 mm	15 mm	16 mm			
 244800	 926900*	 979200	 202300	 493100#	 945500*	 208500	 270300	 299000*	 910300	 962159#	 961859
 405400*	<b>13.5 mm</b>		 913700	 240200#	 931000	 952100 · 962059	 457300*	 486100	 952200#	 973500	 963900
 975300	 249100	<b>14.6 mm</b>		 603200*	 948500*	 406100#	 403400	 606100*#	 256700*	 203200#	
 977500	 969505	 202400	 506300*	 941600* · 951859		 378600*	 289700	 962259#	 219900		
 442500*	 217100	 933900 · 951459	 201000	 937600*	 937700	 970559	 253100*				
 209900	 233200	 951559 · 943300	 931100 · 951759	 953241*	 961559*	 973600	 270000				
 328100	 948600	 241600	 961459	 221400	 987400	 942100	 940800				
 958241*	 603300*	 980600	 925500	 237600	 459600*	 976100 · 925100	 976000				
 433800*#	 486900	 223900	 221900	 246700	 488200	 941800	 214400				
 948700	 313000	 306400*	 221000	 221100							
 235300	 259900#	 203900	 277200	 227500							

# Standard profiles




















































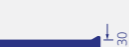































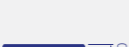









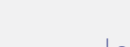
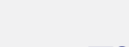
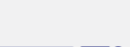






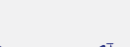





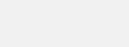




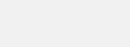

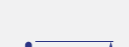





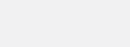

16 mm		16.5 mm		18 mm		18.6 mm		20 mm		20.6 mm		22 mm	
 270100	 977400	 955100	 276900	 912100 · 912159	 979300	 933200	 260700* · 942600	 964200	 221500#	 202200	 574600*		
 961959	<b>16.6 mm</b>	 908300*	 290600*	 944300	 330500	 266800* · 279400	 279500 · 296200	 325500	 221600#	 242900	 243000		
 977600	 420800#	 551000*	 357400	 251500*	<b>19 mm</b>	 912500 · 957600	 976600	 297800	<b>21 mm</b>	 229900*	 431300		
 445500	<b>17 mm</b>	 221200	 955200	 591300*	 434900*	 361000	 439500#	 924900*	 556500	 908400	 977200		
 977900	 592000	 249200	 277000	 276800	 435000*	 387200*	 957400	 964100	 357500	 228100	 254100		
 940300	 286600*#	 964000	 322100*	 283400*	 435100*	 234700	 444500	 540000*	 556400	 257300*	 389600 · 388200*		
 945900	<b>17.4 mm</b>	 261200*	 248300	 977700	 435200*	 269100*	 228700	 562100		 271300*	 439100		
 981700	 242700#	 550900*	 955300	 332700*	<b>19.8 mm</b>	 945800*	 966500	 499500#		 269700	<b>23 mm</b>		
 539900*		 270200	 418000*#	 522300*	 457400*	 277400	 218500			 966605	 283000#		
 980900		 955000		 522200*	 457500*	 957300*	 228900			 978700*	 282600#		
 277600#		 463600*		 952459	 457600*	 941700	 493200			 551100*	 538800		

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24 mm					
 961759 · 933100	 220300	 956059	 403500	 969759*	 964559#
 965159#	 246300*	 957500	 513000*	 214000	 464600
 390900	 271400*	 231900	 403900*	 984300	 479700
 241700#	 927200	 285700*	 418200	 459700*	<b>24.8 mm</b>
 279600	 925200*	 404000*	 406200#	 459800*	 246100
 975900 · 307300*	 975700*	 228200	 969959*	 246600	 215600
 979500	 269000*	 956159	 399200	 547100*	 457700*
 459500	 279700	 964300	 439400#	 435300*	 215700
 936800	 976700	 979900	 962659	 214800	 214300
 975400	 940400	 224000	 251600*	 448400	 559000*
 987200	 203100#	 228800	 969859*	 224600	 458400*

24.8 mm	25 mm	26 mm	27 mm	28 mm
 366500*	 554100*	 567000*	 264100	 271900*
<b>25 mm</b>	 536700*#	 254800	 357700	 932000
 910400	<b>25.3 mm</b>	 260600	 557400*	 971605
 979400	 470200*	 453100	 557500*	 214700
 950159	 329600*	 908500	 426400	 253900*
 562800*	 329700*	 304500*	 394200	<b>27.5 mm</b>
 249500	 329800*	 491200	 301000	 942700
 946700	<b>25.5 mm</b>	 289300#	 300900	 354400
 974500	 220400	 978800	 259300	 475500
 974600	 321800	 321800	 355400	 584300*
 554100*	 978900	 978900	 978900	 584300*




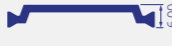
























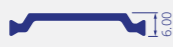







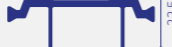






























# Standard profiles

28 mm		29 mm	30 mm		32 mm	32 mm	34 mm		34.8 mm	35 mm	
 516900	 261900	 547400*	 219500	 475400*	 587000*	 418400	 464800	 400100	 321700	 468500*	 516300*
 459900*	 242100	 522400*	 220800	 225500	 239300	 218100	 268400	 548300	 269200	 468700*	 516400*
 460000*	 321500	 522500*	 246200	 241200	 354700	 563100	 349300	 575300*	 425100	 366600*	 516500*
 450000	 326800	 522600*	 603600*	 352400	 303700	 412200	 935100*	 558600	 426300	 366700*	 358700
 530800*	 548200	 547300*	 908600	 974700	 371800	 216100	 949200	 532600	 429100	<b>35 mm</b>	 452300
 530900*	 571000	 531500*	324100#	 393000	 494500	 289100	 349300	 274000	 384200	 432000	 423700
 280800	 509900	<b>29.2 mm</b>	 279800 · 282300	 349400	 939700	 492100	 463900*	 543300	 258800	 337700	 423500
 271600	<b>29 mm</b>	 460100*	 498000*	 516600	 367900*	 273900	 260900	 430400	 460200*	 418600	 427100
 975100*	 531300*	<b>29.8 mm</b>	 947400	277100*#	 259800	 488300	 422900	 266500	 460300*	 215500	
 229100	 531400*	 458500*	 478600	 414400	 496000	 495600	 240800	 986300*	 575400*	 522100	
 308600	 547200*	 458600*	 475300*	 414300	 355800	 306200*	 463800*	 265600	 218600	 533200	

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


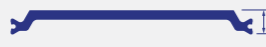

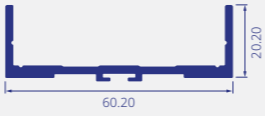



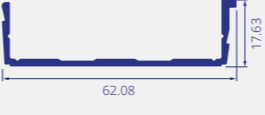
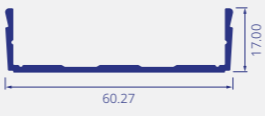
# Standard profiles

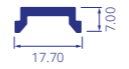


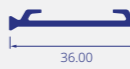
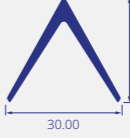

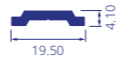





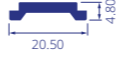
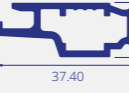


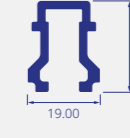




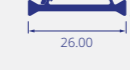






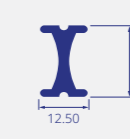
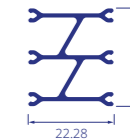






35.3 mm	36 mm	37 mm	39 mm	41 mm	44 mm	45 mm	46 mm	48 mm	50 mm	
 485500*	 201300	 394600	 575000*	 546200	 441500*	 332500 · 502100	 466500	 200100	 365800	 419400
 477400*	 983400	 394400	 522700*	<b>39.8 mm</b>	 441700*	 574700*	 506500*	 457000	 470800	
 477500*	 412100	 394500	 575100*	 468600*	 555800*	 352100	 467100*		<b>54 mm</b>	
	 591500*	 515000	 522800*	 468800*	<b>42 mm</b>	 501000	 467300*		 419500*	
	 392400	<b>38 mm</b>	 522900*	<b>40 mm</b>	 286300	 574800*	 506600*		 419600*	
	 557600	 327800	 575200*	 357800	 334800	 574900*			 462800*	
	 478100	 266700	 340000	 444200	 461500*				 492200	
		 219300	 340300	 287800	 463000*				 539600	
		 335900	 340100*	 412000						
		 363700	 340200	 441900						
			 368500	 553500*						

# Standard profiles

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

60 mm	64 mm	77 mm	Profiles for minimal sliding doors
 463500	 328600*	 261000	 440100
	 507500*		 440200
	 507600*		 440300
			 440400

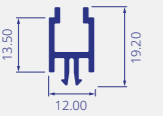
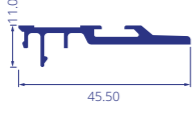
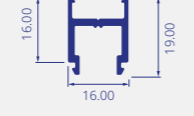
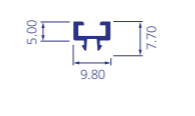
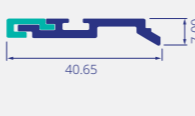
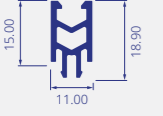
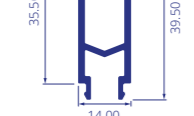
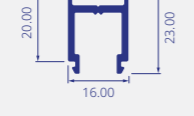
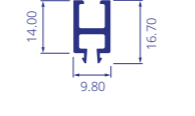

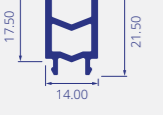
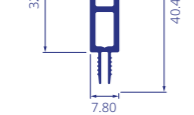
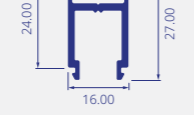
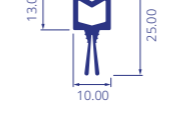

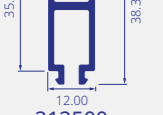
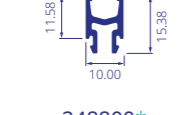

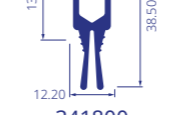
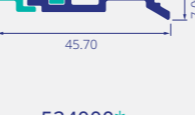
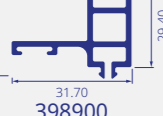
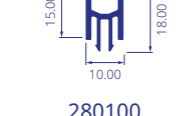

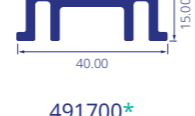
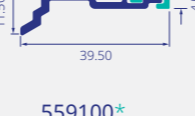
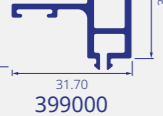

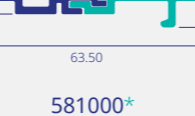
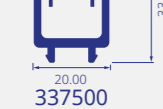
Operating Rods	Hidden Sash	Anti-bi-metal		Specials	
 224400	 346000	 458800	 521000	 200600	 339700
 218000	 375400	 317000	 316200	 212100	 492000
 254700	 506400#	 370000	 418100	 234800	 432100
 224500	 513400#	 317100	 387500	 254400	 449500
 565800*	 550600#	 339900	 339000	 263800	 461700*
		 429900	 464400	 344400	 563700*
		 520900		 441600*	

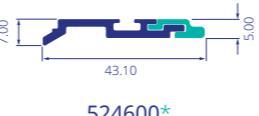
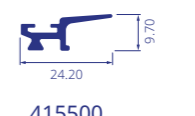

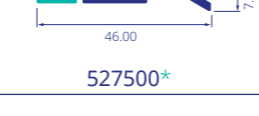


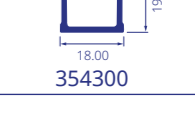
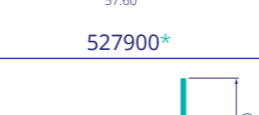
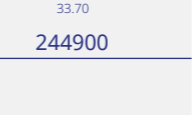
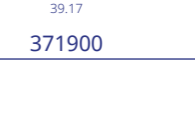
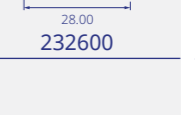
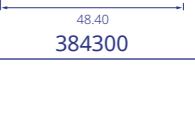

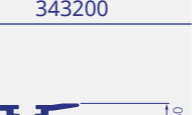





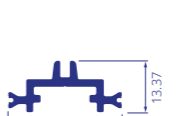
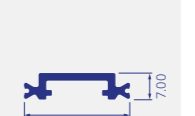
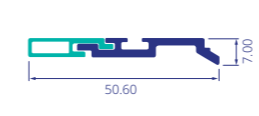
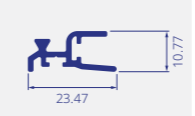
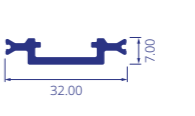








# Standard profiles

000000 Article Number / 000000 New Article

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

Curtain Wall Spacers				Edge Cover
 217300	 337400	 959000	 309900	 507100* · 527300*
 218200	 242400	 959100	 310000	 509100* · 524800* · 520700*
 242300*	 423200	 959200*	 341700	 521900*
 212500	 248800*	 472500	 341800	 524000*
 398900	 280100	 578700*	 491700*	 559100*
 399000	 536600*			 581000*
 337500				

Edge Cover	Profiles for sliding windows and doors			
 524600*	 200500#	 415500	 229000	 419000#
 527500*	 979600#	 389900	 272700	 354300
 527900*	 244900	 371900	 232600	 384300
 530300*	 343200	 933000	 245000	 173600
 530500*	 385200	 385100	 301000	
 530700*	 248100	 263000	 255300	
 527700*	 254500	 282200	 519600*	
	 403600			



# 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 <sup>(1)</sup>	Equilibrium moisture content <sup>(2)</sup>	Dry <sup>(1)</sup>
melting temperature	EN ISO 11357-3	°C	min. 250 <sup>(3)</sup>	min. 250 <sup>(3)</sup>	min. 250 <sup>(3)</sup>
density	EN ISO 1183-1 or -3	g/cm <sup>3</sup>	1.3 +/- 0.05	1.3 +/- 0.05	1.3 +/- 0.05
annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5	25 +/- 2.5
shore hardness D	EN ISO 868	-	82 +/- 4 <sup>(4)</sup>	78 +/- 4 <sup>(4)</sup>	84 +/- 2
impact strength	EN ISO 179-1	kJ/m <sup>2</sup>	min. 30 or without break <sup>(5)</sup>	min. 40 or without break <sup>(5)</sup>	min. 35 <sup>(6)</sup>
tensile strength	EN ISO 527-2 and -4	N/mm <sup>2</sup>	min. 80 <sup>(7)</sup>	min. 50 <sup>(7)</sup>	min. 110 <sup>(8)</sup>
Young's modulus	EN ISO 527-2 and -4	N/mm <sup>2</sup>	min. 4500 <sup>(7)</sup>	min. 2000 <sup>(7)</sup>	min. 6000 <sup>(8)</sup>
elongation at break	EN ISO 527-2 and -4	%	min. 3 <sup>(7)</sup>	min. 7 <sup>(7)</sup>	min. 3 <sup>(8)</sup>

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

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

# Cooperation partners

## Europe

- Federation of European Window and Curtain Wall Manufacturers' Associations

## 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
- 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.
- AMEVEC · Asociación Mexicana de Ventanas y Cerramientos

## Asia

### China

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

### Korea

- KAFA · Korea Architectural Facade Association

### Singapore

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

## Australasia

### 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 level Material Health Certificate

### Germany

**TÜV Certification**  
according to  
ISO 14001:2015  
ISO 50001:2011  
ISO 45001:2018

### Belgium

**ATG Certification**

### North America

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

### Russia

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

### China

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

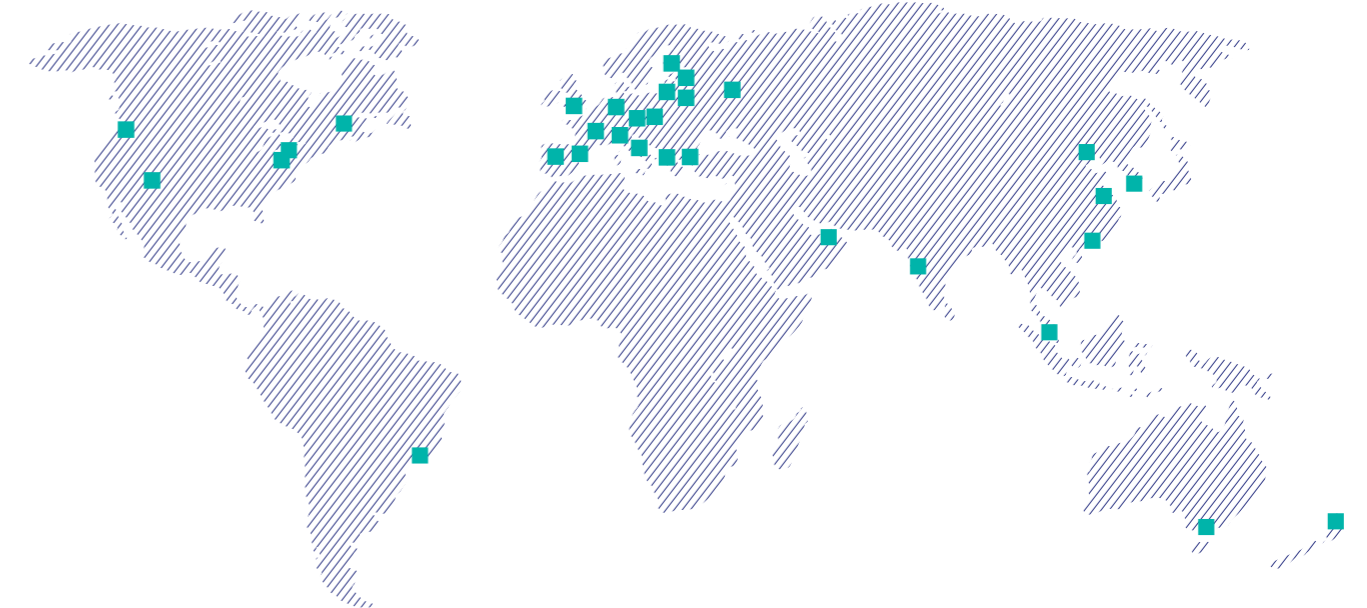
### Hong Kong

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

### Singapore

**Singapore Green Building Product - Excellent**

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



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