



Standard profiles catalogue

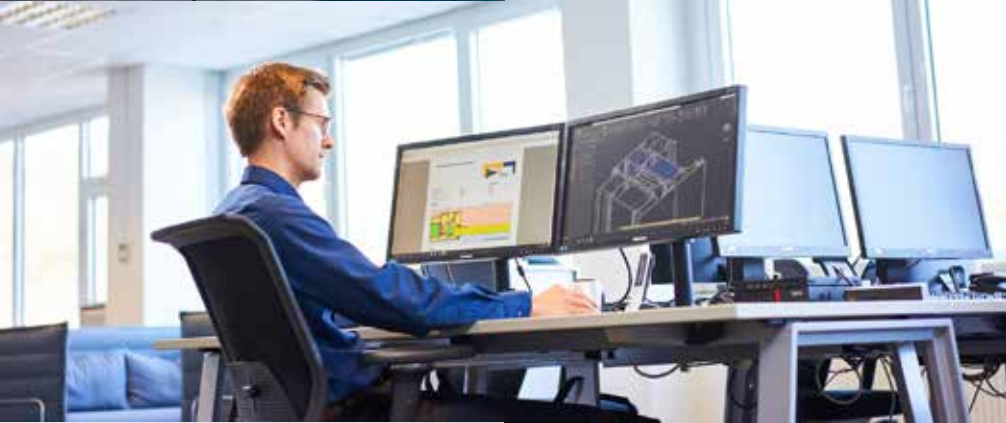
Insulation solutions for
windows, doors, and facades

We are your partner
for any system and
any challenge –
worldwide.

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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 14 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

10 mm	12 mm	13 mm	14 mm		
 244800	 977500	13.4 mm	 202300	14.6 mm	14.8 mm
	 926900*	 979200	 913700	 933900 · 951459	 931000
	 975300	13.5 mm	 202400	 506300* · 919200*	 951659*
	 405400*	 249100	 217100	 951559 · 943300	 924300* · 945500* · 523000*
	 442500*	 969505	 233200	 241600	 201000
	 209900		 948600	 980600	 931100 · 951759
	 328100		 486900	 223900	 941600* · 951859
	 958241*		 948700	 313000	 961459
			 235300	 259900#	 925500
			 493100#		 948500* · 525500*
			 240200#		 221900

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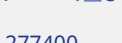










14 mm			15 mm	16 mm	
14.8 mm			 910300	 962159#	 961859
 306400*	 246700	 977000	 952200#	 973500	 963900
 203900	 320100*	 295600	 256700*	 203200#	
 208500	 257100	 299000*	 962259#	 219900	
 952100 · 962059	 270300	 486100	 970559	 253100*	
 406100#	 403400	 459600*	 973600	 270000	
 378600*	 289700		 942100	 940800	
 937600*	 937700		 976100 · 925100	 976000	
 953241*	 961559*		 941800	 214400	
 221400	 987400		 221000	 221100	
 237600	 488200		 277200	 227500	

Standard profiles




















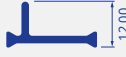
































16 mm		17 mm	18 mm		
 270100	16.5 mm	 286600*#	 955100	 357400	18.6 mm
 961959	 977400	17.4 mm	 908300*	 955200	 912100 · 912159
 977600	16.6 mm	 242700*#	 221200	 277000	 944300
 445500	 420800*#		 249200	 322100*	 251500 · 525000*
 977900			 964000	 248300	 360500 · 525400*
 940300			 261200*	 955300	 522300*
 945900			 270200	 418000*#	 522200*
 981700			 955000	 550900*	 276800
 277600*#			 463600*	 551000*	 283400*
 539900*			 276900		 977700
			 290600*		 332700 · 525300*

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18 mm	20 mm			21 mm	22 mm
18.6 mm	 933200	 260700* · 942600 · 524900*	 964200	 357500	 202200
 952459	 266800* · 960541 · 279400 · 525100*	 279500 · 296200	 325500		 242900
 979300	 912500 · 957600	 976600	 297800		 229900*
 330500	 361000	 439500#	 924900*		 908400
	 387200*	 957400	 964100		 228100
	 234700	 444500	 540000*		 257300*
	 269100*	 228700	 562100		 271300*
	 945800*	 966500	20.6 mm		 269700
	 277400	 218500	 221500#		 966605
	 957300*	 228900	 221600#		 978700*
	 941700	 493200			 243000

Standard profiles






























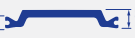
























22 mm	23 mm	24 mm			
 431300	 283000#	 961759 · 933100	 220300	 285700*	 224000
 977200	 282600#	 965159#	 246300*	 269000 · 525200*	 228800
 254100		 390900	 271400 · 498800*	 279700	 403500
 389600 · 388200*		 241700#	 927200	 976700	 231800 · 513000*
 439100		 279600	 925200*	 940400	 403900*
 551100*		 975900 · 307300* · 498900*	 975700*	 203100#	 418200
		 979500	 956059	 404000*	 406200#
		 459500	 957500	 228200	 969959*
		 936800	 464600	 956159	 399200
		 975400	 479700	 964300	 439400#
		 987200	 231900	 979900	 214800

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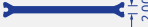

















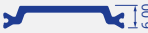





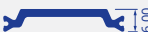




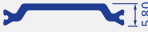




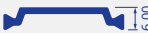






















24 mm		25 mm		26 mm	
 448400	 246600	 910400	25.3 mm	 567000*	 426400
 224600	 547100*	 249500	 470200*	 254800	 264100
 964559#	24.8 mm	 946700	 329600*	 260600	 357700
 962659	 246100	 974500	 329700*	 453100	 300900
 251600*	 215600	 974600	 329800*	 908500	 259300
 969859*	 215700	 979400	25.5 mm	 304500*	 557400*
 969759*	 214300	 950159	 220400	 491200	 557500*
 214000	 559000*	 536700*#		 289300#	
 984300		 562800*		 978800	
 459700*				 321800	
 459800*				 978900	

Standard profiles



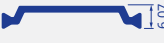
























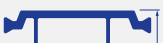







27 mm	28 mm		29 mm	30 mm	
 271900*	 222500	 326800	 459900*	 531300*	 219500
 932000	 948400	 271600	 460000*	 522400*	 220800
 253800*	 927700	 975100*	 548200	 522500*	 246200
 253900*	 214700	 229100	 571000	 522600*	 908600
 971605	 223500*	 308600	 509900	 531400*	 324100#
27.5 mm	 280900	 261900	 531500*	 279800 · 282300	
	 942700	 354400	 242100	 547200*	 498000*
	 475500	 450000	 547300*	 947400	
	 355400	 530800*	 547400*	 478600	
	 280800	 530900*	29.2 mm	 475300*	
	 321500	 551200*		 460100*	 475400*

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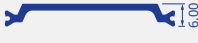



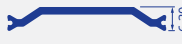









30 mm	32 mm	32 mm	34 mm	34 mm	34 mm
 225500	 239300	 418400	 464800	 260900	 218400*
 241200#	 279900*	 218100	 268400	 240800	 460200*
 352400	 354700	 412200	 935100*	 321700	 460300*
 974700	 303700	 216100	 949200	 269200	 548300
 393000	 371800	 289100	 349300	 425100	
 349400	 494500	 492100	 430400	 426300	
 516600	 939700	 273900	 266500	 429100	
 277100*#	 367900*	 488300	 986300*	 463800*	
 352400	 259800	 495600	 265600	 384200	
 414400	 496000	 563100	 463900*	 258800	
 414300	 355800		 422900	 400100	

Standard profiles




35 mm	36 mm	37 mm	38 mm	39 mm	
 432000	35.3 mm	 201300	 394600	 327800	 340000
 337700	 485500*	 983400	 394400	 266700	 340300
 418600	 477400*	 412100	 394500	 219300	 340100
 215500	 477500*	 392400	 515000	 335900	 340200
 358700				 363700	 368500
 452300					 522700*
 423700					 522800*
 423500					 522900*
 427100					 546200
 522100					

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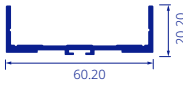
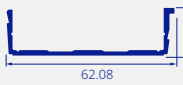


40 mm	42 mm	44 mm	45 mm	46 mm	48 mm
 357800	 286300	 332500 · 502100	 466500	 200100	 365800
 444200	 334800	 352100		 506500*	 457000
 287800	 461500*	 501000		 506600*	
 412000	 463000*				

41 mm

 441500*
 441700*
 555800*




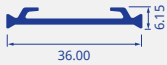
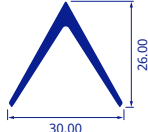
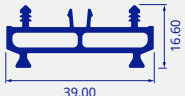
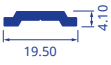
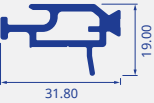


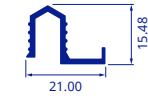

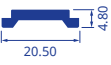
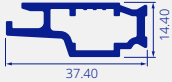
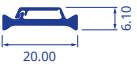

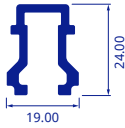

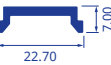



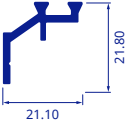
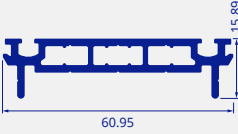
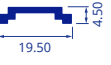


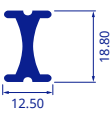
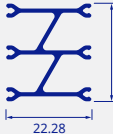

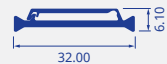


Standard profiles

50 mm	54 mm	60 mm	64 mm
 419400	 419500*	 463500	 328600
 470800	 419600*		 507500*
	 462800		 507600*
	 492200		
	 539600		

77 mm	Profiles for minimal sliding doors	
 261000	 440100	 440300
	 440200	 440400

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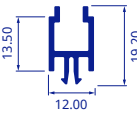

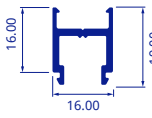
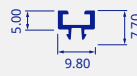

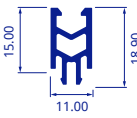
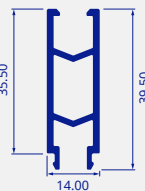
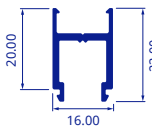
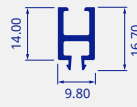

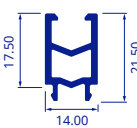
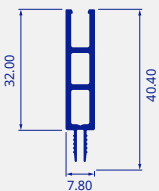
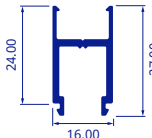
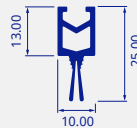

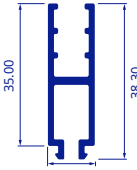
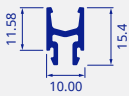
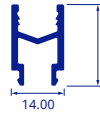
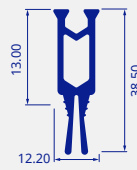

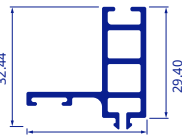
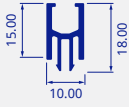
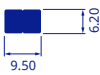


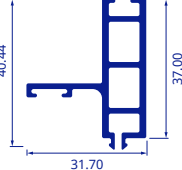
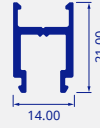
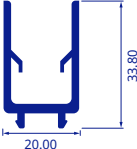
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Operating Rods	Hidden Sash	Anti-bi-metal		Specials	
 224400	 346000	 458800	 521000	 200600	 339700
 218000	 375400	 317000	 316200	 212100	 492000
 254700	 506400	 370000	 418100	 234800	 432100
 224500	 513400	 317100	 387500	 254400	 449500
 565800*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

Standard profiles

Curtain Wall Spacers

Edge Cover




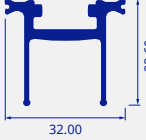









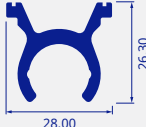
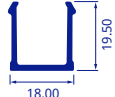

















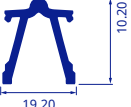

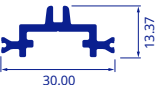


 <p>217300</p>	 <p>337400</p>	 <p>959000</p>	 <p>309900</p>	 <p>507100* · 527300*</p>
 <p>218200</p>	 <p>242400</p>	 <p>959100</p>	 <p>310000</p>	 <p>509100* · 524800* · 520700*</p>
 <p>242300*</p>	 <p>423200</p>	 <p>959200*</p>	 <p>341700</p>	 <p>521900*</p>
 <p>212500</p>	 <p>248800*</p>	 <p>472500</p>	 <p>341800</p>	 <p>524000*</p>
 <p>398900</p>	 <p>280100</p>	 <p>510700*</p>	 <p>491700*</p>	 <p>559100*</p>
 <p>399000</p>	 <p>536600*</p>			
 <p>337500</p>				

000000 Article Number / 000000 New Article /

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

Edge Cover

Profiles for sliding windows and doors

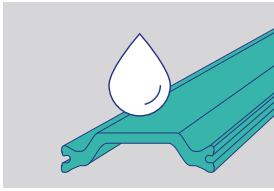
 <p>524600*</p>	 <p>200500#</p>	 <p>415500</p>	 <p>229000</p>	 <p>419000#</p>
 <p>527500*</p>	 <p>979600#</p>	 <p>311300</p>	 <p>272700</p>	 <p>306200*#</p>
 <p>527900*</p>	 <p>244900</p>	 <p>389900</p>	 <p>232600</p>	 <p>354300</p>
 <p>530300*</p>	 <p>343200</p>	 <p>371900</p>	 <p>245000</p>	 <p>384300</p>
 <p>530500*</p>	 <p>385200</p>	 <p>933000</p>	 <p>301000</p>	 <p>173600</p>
 <p>530700*</p>	 <p>248100</p>	 <p>385100</p>	 <p>255300</p>	 <p>519600*</p>
 <p>527700*</p>	 <p>254500</p>	 <p>306300</p>	 <p>282200</p>	 <p>263000</p>
	 <p>403600</p>	 <p>977100</p>		

Handling instructions

Storage of insulating strips made of PA 66

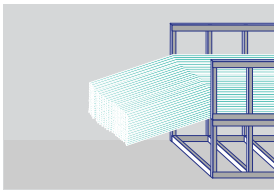
Insulating strips made of polyamide are initially dry but absorb moisture from the environment in the course of time after manufacture. The rate and level of moisture absorption depend on the following:

- Ambient humidity
- Ambient temperature
- Storage period

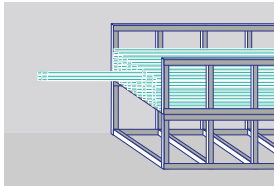


The problem

In summer, when the temperature and relative humidity in warehouses are higher than usual, the insulating strips absorb more moisture than in the remaining seasons, even when stored properly for brief periods. During storage under dry conditions, the equilibrium moisture content is lower, approx. 2%. During extended storage periods, the strips change shape according to storage conditions.



The longer the storage period, the greater the possibility of the sag becoming permanent. If the strips are stacked on pallets which are shorter than the strip length (e.g. 6.500 mm strips on 6.000 mm pallets), they sag at the ends. This applies to strips stored in pallets where there is no floor. The strips shouldn't overlap the end of the supports.

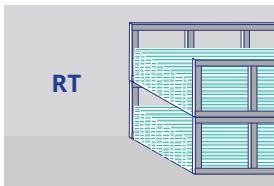


A twisting of the strips, which can occur, for example, when individual bundles are removed from a pallet, can also become permanent if the strips are not straightened.

The correct storage

In order to avoid bending or twisting of the strips, take note of the following factors:

- Store the strips so that the degree of sag is minimized
- Make sure to support protruding sections
- Brief storage periods at room temperature
- Shelter from rain, sun and humidity



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.

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.
- CCMISA · 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
- SGA · Singapore Glass Association
- CoolestSG

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
ISO 45001:2018

Belgium

ATG Certification

North America

TÜV Certification

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according to
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ISO 9001:2015
ISO 45001:2018

Hong Kong

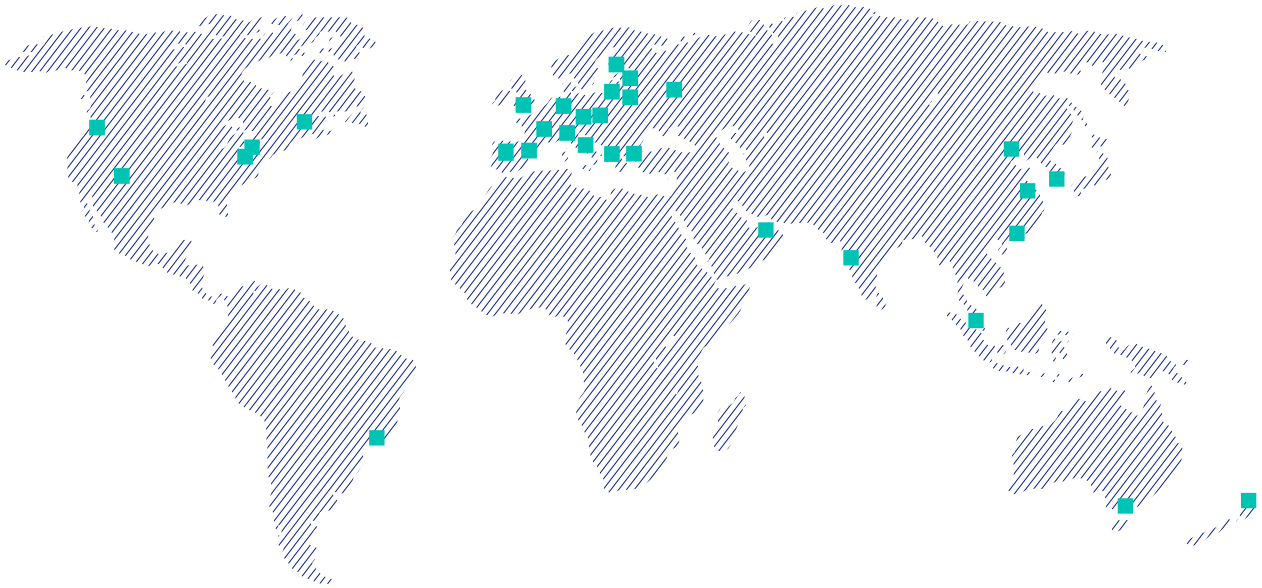
TÜV Certification

according to
ISO 14001:2015
ISO 9001:2015
ISO 45001:2018

Singapore

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