CERFIX PROANGLE / B / FLEX

External corners profiles



DESCRIPTION

PROANGLE is a line of technical profiles designed for finishing, closing, protecting and decorating ceramic wall coverings and coplanar floors in ceramic, marble, granite, parquet or other types of materials.
The L-shaped geometry of the profile is characterized by a 90° angle between the fixing flange and the visible side; the edges of the covering are therefore effectively protected from damage.
Other possible applications include transition and separation zones between different types of floors (e.g., between ceramic and parquet or carpet floors), protection and finishing of steps, platforms, worktops, and perimeter profiles for containing technical entrance mats.
In case of mechanical or chemical stresses, the applicability of the profile must be determined case by case.
Stainless steel, brass, natural aluminum, and anodized aluminum models are suitable for both wall and floor applications (the chromium-plated brass version is not recommended for floors subject to heavy traffic). The polished aluminum and colour-coated aluminum models must normally only be used on walls (the colour-coated version is also suitable for outdoor use).
The **PROANGLE** line, available in natural brass and natural aluminum, is especially suitable for laying marble, resin and wood wherever polishing of the floor surface is required. Absolutely avoid polishing on profiles made of different materials than those indicated.
The wide availability of materials, colours and finishes allows **PROANGLE** to create a multitude of colours combinations with ceramic tiles and with the Mapei grout material used for grouting.
PRONGLE - MAPEI COLOR offers corner pieces, which are ideal for creating corners that ensure precise, high-quality installation with attention to every detail.
The versatility of the **PROANGLE** line and the variety of materials used in its production makes these profiles suitable for civil, public and industrial applications.
PROANGLE is also available in a **FLEX** version. Made of natural aluminum, stainless steel, and brass, with the use of **PROFLEX** machine, it is specially designed to meet installation needs where the profile must be curved to follow the floor layout.

MATERIALS

Natural aluminium

Al-Mg-Si aluminium, heat-treated in T6 (6060 T6).
The outer surface must be protected from scratches and abrasion. They present a good resistance to chemical and atmospheric agents. When wet, concrete and its derivatives produce alkaline substances which can corrode metal (forming aluminium hydroxide) when allowed to react with the surface. For this reason, the visible surface of the profile must be quickly and delicately cleaned to remove any concrete, adhesive or grouting substances and detergents.

Anodised aluminum

Al-Mg-Si aluminium, heat-treated in T6 (6060 T6).
The profiles are extruded then anodised.
The outer surface must be protected from scratches and abrasion. They present a good resistance to chemical agents. When wet, concrete and its derivatives produce alkaline substances which can corrode metal (forming aluminium hydroxide) when allowed to react with the surface. For this reason, the visible surface of the profile must be quickly and delicately cleaned to remove any concrete, adhesive or grouting substances and detergents.
As a result of wear and foot traffic (in the case of profiles used on floors), the anodised surfaces can become damaged and lose their original finish.

Bright polished aluminium

Al-Mg-Si aluminium, heat-treated in T6 (6463 T6).
The profiles are extruded then treated and machined. When wet, concrete and its derivatives produce alkaline substances which can corrode metal (forming aluminium hydroxide) when allowed to react with the surface. For this reason, the visible surface of the profile must be quickly cleaned to remove any concrete, adhesive or grouting substances and detergents. Do not use bright polished aluminium profiles on floors and outdoors.

Colour-coated aluminium

Al-Mg-Si aluminium, heat-treated in T6 (6060 T6).
The profiles are extruded and then colour-coated. They present a moderate resistance to chemical and atmospheric agents, but do not offer good resistance to mechanical stress, which would damage the surface finish. This means they are not recommended for floor use. Concrete, adhesive, grouting materials and detergents must be removed immediately from the visible surface of the profile.

Anti-bacterial coated aluminium

Al-Mg-Si aluminium, heat-treated in T6 (6060 T6).
The profiles are extruded and then coated with special anti-bacterial technology. The surface reduces the most hazardous bacteria by up to 99%. This technology complies with ISO 2296:2011 standards. They also present a moderate resistance to chemical and atmospheric agents , but do not offer good resistance to mechanical stress, which would damage the surface finish. This means they are not recommended for floor use. Concrete, adhesive, grouting materials and detergents must be removed immediately from the visible surface of the profile.

Stainless steel

AISI 304 - DIN 1.4301
It offers excellent resistance to the main chemical and atmospheric agents, lime, mortar, tile adhesives and cleaning products.
Also recommended for use in food industries, hospitals, outdoor environments in general, etc.
AISI 316 – DIN 1.4401
It offers excellent resistance to the main chemical and atmospheric agents, lime, mortar, tile adhesives and cleaning products. It has also good resistance to chlorides, although in the event of particular chemical stress, it is advisable to check the suitability of the product before use.

Natural brass

Alloy CW624N UNI EN 12167
These profiles are extruded. The external surface must be protected from scratches and abrasion. They present good resistance to chemical agents and mechanical stress. However, brass is subject to oxidation in the exposed parts, which causes a surface patina. When exposed to strong atmospheric humidity or corrosive agents, brass is subject to an elevated rate of oxidation and can present surface stains and spots. When necessary, it can be restored to its natural state with abrasives or specific polishing products.

Chromium-plated brass

Alloy CW624N UNI EN 12167
The profiles are extruded and then chromium-plated. Resistant to UV, chemical and atmospheric agents. Do not use chromium-plated profiles in areas subject to intense foot traffic.

Rigid PVC

Lead-free, shock-resistant, self-extinguishing rigid PVC vinyl compound. Eco-compatible stabilised with Ca-Zn salts.

General note on metals

Aluminium and stainless steel are not resistant to all chemical compounds. Consequently, contact with particularly aggressive products like hydrochloric acid (HCl) and phosphoric acid (H3P04) must be avoided. Products generally used to clean stone, ceramic and porcelain stoneware, such as muriatic acid, ammonia and bleach, damage the surface finish on the metal and can cause intense corrosion. Moreover, any residues of concrete, adhesive and grouting materials must always be removed from the surface of the profiles as quickly and delicately as possible.
If adhesive tape is used to cover the profile, it must not be left any longer than an hour.

INSTALLATION

Installation with adhesive

First, wear suitable PPE, such as cut-resistant gloves, to handle the profile.
Remove the profile from the packaging.
Check that the thickness of the covering/flooring to be laid is not greater than the dimension of the profile (see label).
Where present, also remove any protection (protective and/or heat-shrinkable film) added to protect the finish.
Measure the required length and cut the profile to size using an appropriate tool.
Level the adhesive on the laying surface using a notched trowel.
Place the profile in position and level it with the covering laid previously.
Lay the covering delicately, making sure it is flush with the profile and leaving the right space for a grout line (usually 1-2mm).
Fill any gaps left between the covering and the profile with a suitable grout.
Remove any excess grout, adhesive, solvents, etc. with a soft sponge and water within ten minutes of application.

CARE AND MAINTENANCE

Care and maintenance procedures for the materials used to make these items depends largely on the type of alloy and/or finish used.
The instructions provided below describe the operations that must be carried out on the product in order to restore its original appearance as far as possible.
The purpose of this document is to provide as many general indications as possible to guide you on when and how to clean the product, but they should also be verified on a case-by-case basis.
It should be noted that there are specific responsibilities at every stage of the product's life, starting from its installation.

Aluminium

They do not require any special maintenance and can be easily treated with colourless alcohol in a water solution or using ordinary detergents, provided they do not contain acid (hydrochloric or hydrofluoric). Detergent products made by multiple manufacturers and sold under a variety of commercial brands can generally be used for cleaning.
In general, there are three types of products:

- alkaline;
- neutral;
- acid.

For cleaning purposes, we recommend using a neutral detergent diluted in water (for example see ULTRACARE line by Mapei) then rinsing with water only, using a non-abrasive sponge and/or cloth to avoid scratching and/or damaging the anodised, polished, colour-coated surface.
During cleaning, the following aspects must be kept in mind at all times:

- do not use acid or alkaline detergents because they could damage the aluminium;
- do not use abrasive products and/or materials;
- do not use organic solvents on colour-coated surfaces;
- do not use detergents whose chemical composition is unknown;
- do not apply detergents straight onto the surface to be cleaned;
- during cleaning, surfaces must be “cold” (max T°= 30°C) and not exposed to direct sunlight;
- detergents used in cleaning must also be “cold” (max T° = 30°C) and steam sprays should not be used.

In any case, the final stage in the cleaning process always consists of rinsing the treated parts thoroughly with water, followed by immediate drying with cloths or soft leather. Maintenance with polishing products or similar is not necessary.
Clean the profiles thoroughly and promptly, following the instructions on the product packaging, to prevent any deposits of concrete, grouting material or similar products from attacking the surface layers.

Stainless steel

Stainless steel surfaces can be polished using special products, which are commonly available on the market. Stainless steel is easy to clean and extremely hygienic; the smooth, non-porous surface makes the adhesion and survival of bacteria and/or other micro-organisms particularly difficult.
To keep stainless steel in perfect conditions, there are just a few simple rules: wash with soap and warm water or with normal detergents (for example see ULTRACARE line by Mapei) provided they are not acid-based, rinse well then dry with a soft cloth.
For surfaces exposed to atmospheric or aggressive agents, we recommend cleaning the stainless steel profile regularly to maintain the surface unaltered and prevent corrosion.
Surfaces with a brushed finish should always be cleaned in the direction of the brushing and not trasversally.
In the event of scratches, use a detergent/polish made specifically for stainless steel, and a soft cloth.
For cleaning, do not use any of the following:

- detergents containing hydrochloric acid (also known as muriatic acid), hydrofluoric acid or bleach; avoid direct contact on surfaces with detergents containing chlorides, unless the contact is short and the surface is well-rinsed afterwards;
- abrasive powdered detergents which could damage the surface finish of the profile.

Do not leave mild steel objects or utensils (like brushes or steel wool normally used to remove residues of mortar or similar products) in contact with stainless steel profiles for extended lengths of time. They could transfer iron particles (contamination) and trigger rust on the surface.
Do not leave damp cloths or sponges for extended lengths of time on the stainless steel surface to prevent the formation of unsightly water marks.

Brass

Brass does not require special maintenance: it can be easily cleaned with alcohol diluted in water or normal detergents (for example see ULTRACARE line by Mapei) provided they are not acid-based. Water can be used with added neutral detergents and the final rinse should be carried out with water only. Use non-abrasive sponges or cloths which will not scratch the surface. For maintenance, use commonly available polishes.

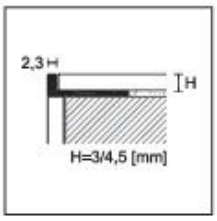
PVC

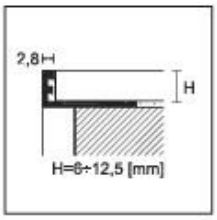
PVC does not require special maintenance; it can be easily cleaned with colourless alcohol diluted in water or with normal detergents (for example see ULTRACARE line by Mapei) provided they are not acid-based and are also diluted in water; rinse with water only.
Use non-abrasive sponges or cloths which will not scratch the surface.

FIRE PREVENTION MEASURES

In the event of fire, use chemical fire extinguishers, dry sand or solid extinguishing agents.

PROFILES FOR WALL COVERINGS

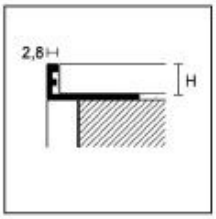




PROANGLE

length = 270 cm - pack 20 pcs			H							
ART.	**finishing**		**3**	**4,5**	**6**	**8**	**9**	**10**	**11**	**12,5**
ALUMINIUM										
	silver anodised		90338	90340	88204	88205	88217	88206	88218	88207
	euro/m									
ZA/	titanium anodised		-		88253	88254	-	88255	88257	88256
	euro/m									
	black anodised		-	-	-	88265	-	88266	88267	88268
	euro/m									
ZB/	bright polished silver		-	88260	88294	88295	-	88296	88220	88297
	euro/m		-				-			
	bright polished gold		-	88261	88339	88340	-	88341	-	88342
ZB/	bright polished titanium		-	88333	88334	88335	-	88336	88337	88338
	euro/m		-				-			
ZBS/	bright brushed silver		-	-	-	-	-	88356	88357	88358
ZTM/	bright brushed titanium		-	-	-	-	-	88359	88360	88361
	euro/m						-			
ZBS/	bright brushed black		-	-	-	-	-	88353	88354	88355
	euro/m									
COLOUR-COATED ALUMINIUM										
	colour-coated matt white RAL 9003		-	-	-	88395	-	88396	88435	88397
ZV/	colour-coated white RAL 9003		-	-	88384	88385	-	88386	88436	88387
	euro/m		-	-			-			
ANTIBACTERIAL COLOUR-COATED ALUMINIUM										
ZVH/	colour-coated white RAL 9003		-	-	-	88390	-	88392	-	88394
	euro/m		-	-	-		-		-	

individually packed



ZV/

TREND COLOR

PROANGLE - TREND COLOR

length = 270 cm - pack 20 pcs			H			
	ART.	finishing	8	10	11	12,5
	COLOUR-COATED ALUMINIUM					
		TREND COLOR STONE				
		dark brown	88446	88407	88417	88481
		anthracite grey	88447	88398	88408	88482
		ancient grey	88448	88400	88410	88483
		grey	88449	88405	88415	88484
		rust	88450	88399	88409	88485
		bronze	88451	88406	88416	88486
		stone	88452	88404	88414	88491
		greige	88453	88403	88413	88492
		sand	88454	88402	88412	88493
		beige	88455	88401	88411	88494
		white stone	88456	88428	88433	88495
ZV/		black stone	88457	88429	88434	88496
		TREND COLOR CONCRETE				
		concrete white	88469	88437	88461	88497
		concrete graphite	88470	88438	88462	88498
		concrete smoke	88471	88439	88463	88499
		concrete mud	88472	88440	88464	88500
		concrete sand	88473	88441	88465	88501
		solid white	88478	88460	88468	88502
		TREND COLOR METAL				
		metal dark	88479	88458	88466	88503
		metal light	88480	88459	88467	88504
		euro/m				

individually packed



ZV/10 white stone colour-coated aluminium

MAPEI COLOR

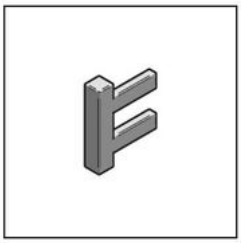
PROANGLE - MAPEI COLOR

length = 270 cm - pack 20 pcs			H				
	ART.	finishing	6	8	10	11	12,5
	COLOUR-COATED ALUMINIUM						
		100 white	88368	88388	88524	88548	88564
		103 moon white	88369	88389	88525	88549	88565
		111 silver grey	88370	88391	88526	88550	88566
		123 ancient white	88371	88393	88527	88551	88567
		112 medium grey	88372	88508	88528	88552	88568
		113 cement grey	88373	88509	88529	88553	88569
		114 anthracite	88374	88510	88530	88554	88570
		110 manhattan 2000	88375	88511	88531	88555	88571
ZV/		130 jasmine	88376	88512	88536	88556	88572
		137 caribbean	88377	88514	88538	88558	88574
		132 beige 2000	88378	88513	88537	88557	88573
		133 sand	88379	88515	88539	88559	88575
		134 silk	88380	88516	88540	88560	88576
		188 biscuit	88381	88517	88541	88561	88581
		135 golden dust	88382	88518	88542	88562	88582
		120 black	88383	88523	88543	88563	88583

individually packed



ZV/

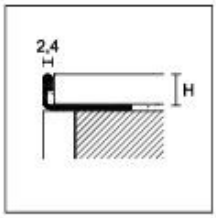


ZV/ /EI

PROANGLE - OUTSIDE / INSIDE CORNERS / END CAPS

pack 5 pcs			H				
ART.	finishing		6	8	10	11	12,5
COLOUR-COATED ALUMINIUM							
ZV/ /EI	100 white		-	88593	88615	88631	88656
	103 moon white		-	88594	88616	88632	88657
	111 silver grey		-	88595	88617	88633	88658
	123 ancient white		-	88596	88618	88638	88659
	112 medium grey		-	88597	88619	88639	88660
	113 cement grey		-	88598	88620	88640	88661
	114 anthracite		-	88599	88621	88642	88662
	110 manhattan 2000		-	88600	88622	88643	88663
	130 jasmine		-	88601	88623	88644	88664
	137 caribbean		-	88608	88624	88645	88665
	132 beige 2000		-	88609	88625	88646	88666
	133 sand		-	88610	88626	88651	88667
	134 silk		-	88611	88627	88652	88668
	188 biscuit		-	88612	88628	88653	88669
	135 golden dust		-	88613	88629	88654	88670
	120 black		-	88614	88630	88655	88671
			-				

no partial packaging

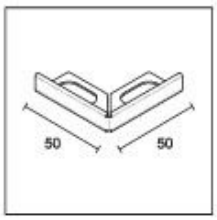


PROANGLE

length = 270 cm - pack 20 pcs			H							
ART.	finishing		3	4,5	6	8	9	10	11	12,5
STAINLESS STEEL										
AI/	stainless steel AISI 304 - DIN 1.4301		91636	91638	91642	91644	91645	91646	91647	91648
	euro/m		-		-		-		-	
AIL/	superpolished stainless steel AISI 304 - DIN 1.4301		-	91690	-	91694	-	91696	-	91698
	euro/m		-		-		-		-	
AIS/	brushed stainless steel AISI 304 - DIN 1.4301		-	91671	91673	91674	-	91675	91677	91676
	euro/m		-				-			
AIP/	sandblasted stainless steel AISI 304 - DIN 1.4301		-	-	91700	91702	-	91704	91705	91706
	euro/m		-	-			-			
AIX/	stainless steel AISI 316 - DIN 1.4404		-	-	91684	91685	-	91686	91688	91687
	euro/m		-	-			-			

individually packed

PROANGLE - OUTSIDE CORNER



AI/ /E
AIS/ /E

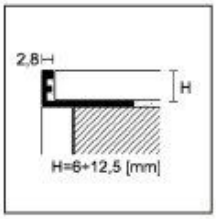
pack 5 pcs			H							
ART.	finishing		3	4,5	6	8	9	10	11	12,5
STAINLESS STEEL										
AI/ /E	stainless steel AISI 304 - DIN 1.4301		-	-	-	-	-	91663	91664	91665
	euro/pc		-	-	-	-	-			
AIS/ /E	brushed stainless steel AISI 304 - DIN 1.4301		-	-	-	-	-	91680	91681	91682
	euro/pc		-	-	-	-	-			



AI/ /E stainless steel AISI 304 - DIN 1.4301



ZK/



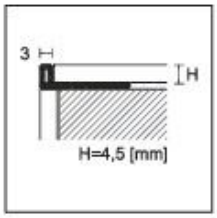
ZK/

PROANGLE

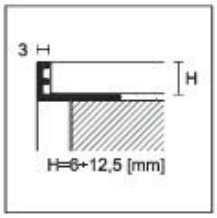
length = 270 cm - pack 20 pcs

ART.	finishing		4,5	6	8	9	10	11	12,5
CHROMIUM-PLATED BRASS									
ZK/	chromium plated		90081	88114	88115	-	88116	88118	88117
	euro/m					-			

individually packed



PV/



PV/

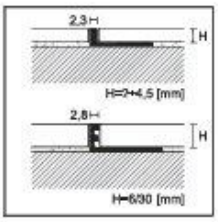
PROANGLE

length = 270 cm			H				
ART.	**finishing**		**4,5**	**6**	**8**	**10**	**12,5**
PVC							
PV/	snow white		80610	80496	80497	80498	80499
	white		80611	80500	80501	80502	80503
	cream white RAL 9001		-	80504	80505	80506	80507
	ivory RAL 1015		-	80508	80509	80510	-
	beige grey RAL 1019		-	80512	80513	80514	-
	beige bahama		-	80552	80553	80554	-
	stone grey RAL 7030		-	80516	80517	80518	-
	ash grey RAL 7038		-	80520	80521	80522	-
	light grey RAL 7035		-	80524	80525	80526	80527
	anthracite		-	80559	80560	80561	-
	red RAL 3002		-	80528	80529	80530	-
	black RAL 9005		-	80532	80533	80534	-
pack 20 pcs ***euro/m***							
pack 100 pcs ***euro/m***							

no partial packaging

to order the pack of 100 pcs, mark /100 after article code (for example code 80497 becomes 80497/100)

PROFILES FOR FLOORS

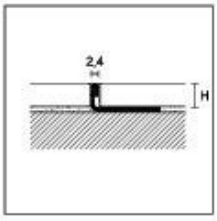


ZG/
ZA/
ZN/
ZK/

PROANGLE

length = 270 cm - pack 20 pcs			H				
ART.	**finishing**		**2**	**2,5**	**3**	**4,5**	**6**
ALUMINIUM							
ZG/	natural aluminium		90207	90206	90208	90210	88159
	euro/m						
ZA/	silver anodised		90336	90337	90338	90340	88204
	euro/m						
BRASS							
ZN/	natural brass		-	-	90078	90080	88024
	euro/m		-	-			
ZK/	chromium plated		-	-	-	90081	88114
	euro/m		-	-	-		

individually packed - ZA/ H 10 and ZG/ H 8 - 10 - 12 are available in length of 90 cm euro/m +
art. ZN/22,5 pack 5 pcs



AI/
AIS/
AIX/

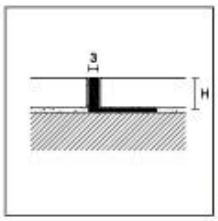
PROANGLE

length = 270 cm - pack 20 pcs			H			
ART.	**finishing**		**3**	**4,5**	**6**	**8**
STAINLESS STEEL						
AI/	stainless steel AISI 304 DIN 1.4301		91636	91638	91642	91644
	euro/m					
AIS/	brushed stainless steel AISI 304 - DIN 1.4301		-	91671	91673	91674
	euro/m		-			
AIX/	stainless steel AISI 316 DIN 1.4404		-	-	91684	91685
	euro/m		-	-		

individually packed - AI/ H 10 is available in length of 90 cm euro/m +

H												
8	**9**	**10**	**11**	**12,5**	**14**	**15**	**17,5**	**20**	**22,5**	**25**	**27,5**	**30**
88160	88155	88161	88156	88162	88157	88163	88164	88165	88166	88167	-	-
											-	-
88205	88217	88206	88218	88207	-	88208	88209	88210	88211	88212	-	-
					-						-	-
88025	-	88026	88038	88027	-	88028	88029	88030	88031	-	-	-
	-				-					-	-	-
88115	-	88116	88118	88117	-	-	-	-	-	-	-	-
	-				-	-	-	-	-	-	-	-

H											
9	**10**	**11**	**12,5**	**14**	**15**	**17,5**	**20**	**22,5**	**25**	**27,5**	**30**
91645	91646	91647	91648	91649	91650	91652	91654	91656	91658	91660	91662
-	91675	91677	91676	-	91678	-	91679	-	-	-	-
-				-		-		-	-	-	-
-	91686	91688	91687	-	-	-	-	-	-	-	-
-				-	-	-	-	-	-	-	-



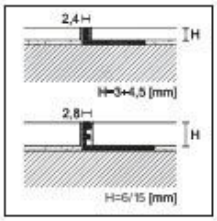
ZBG/

PROANGLE B

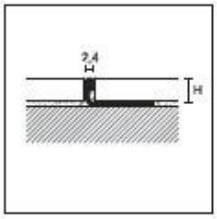
length = 270 cm - pack 20 pcs			H					
ART.	**finishing**		**8**	**10**	**12,5**	**15**	**20**	**22,5**
ALUMINIUM								
ZBG/	natural aluminium		90010	90012	90014	90016	90018	90020
	euro/m							

individually packed

BENDABLE PROFILES



ZGF/
ZNF/

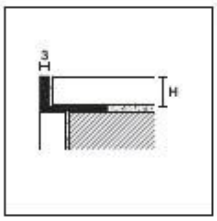


AIF/

PROANGLE FLEX

length = 270 cm - pack 20 pcs			H					
ART.	**finishing**		**3**	**4,5**	**6**	**8**	**10**	**12,5**	**15**
ALUMINIUM									
ZGF/	natural aluminium		88720	88721	88722	88723	88724	88725	88726
	euro/m								
BRASS									
ZNF/	natural brass		88701	-	88703	88704	88705	88706	-
	euro/m			-					-
length = 270 cm - pack 10 pcs									
STAINLESS STEEL									
AIF/	stainless steel AISI 304 DIN 14301		-	-	91622	91623	91624	91625	-
	euro/m		-	-					-

Proangle Flex is available in other heights on request.



ZBGF/

PROANGLE FLEX

length = 270 cm - pack 20 pcs			H					
ART.	**finishing**		**8**	**10**	**12,5**	**15**	**20**	**22,5**
ALUMINIUM								
ZBGF/	natural aluminium		90011	90013	90015	90017	90019	90021
	euro/m							

individually packed

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website profilpas.com

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13208-13223-13224-06-2025-en

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