



ALU 
STAR

GRÖMO



Allgäu

PRODUCT CATALOGUE

 The coloured aluminium roof drainage system

GRÖMO
 One step ahead of the rain



ALU
STAR

GRÖMO



CONTENT

GRÖMO ALUSTAR

Inspired by nature	4
--------------------------	---

PRODUCT RANGE

Roof drainage with system	8
Colours	10
Surfaces	12
Product overview	14
Coated aluminium	18
DUOFALZ	20

SOURCE OF INSPIRATION

References	22
------------------	----

EXCELLENCE

GRÖMO ALUSTAR quality	24
GRÖMO service.....	26

PRODUCTS

TX Oberfläche	28
SX surface	66

FURTHER INFORMATION

General notes.....	96
Technical specs.....	98
General terms and conditions.....	102



INSPIRED BY NATURE

 The coloured aluminium roof drainage system



Original destination: Schrecksee

Made in the Allgäu, Made in Germany. For over 135 years.

Our origins and influences have a major impact on how we think and act. It is therefore no surprise that our developments are inspired by nature in the Allgäu region. The white of the snow-covered peaks, the moss green of the weathered granite rocks, the bright blue of the mountain lakes and the dark earth that smells of cool forests – these and other impressions of our home region inspire us in the development of GRÖMO ALUSTAR products.



FREEDOM OF DESIGN

 Space for products inspired by nature



Show your colours with GRÖMO ALUSTAR

Choose between eight beautiful natural colours or a further 206 RAL special colours on request. Decide on a surface finish: matt textured or silk gloss. GRÖMO ALUSTAR, the complete drainage range made of paint-coated aluminium, is characterised by the highest quality and precision fit; it is durable and lightweight.

COMPLETE PACKAGE WITH SYSTEM

Gutters, downpipes and strip material made of coated aluminium

With GRÖMO ALUSTAR, GRÖMO provides you with the complete roof drainage system from a single source, from the gutter to the downpipe to the accessories: made of paint-coated aluminium and in premium quality.

Because everything comes from a single source, a perfect fit is guaranteed. This saves manpower, equipment and handling, or in short: effort and time. GRÖMO ALUSTAR is available in eight colours, two surfaces and in half round and box shapes. DUOFALZ sheet metal strips and cut plates round off the product range.

IN HARMONY

* The coloured aluminium roof drainage system



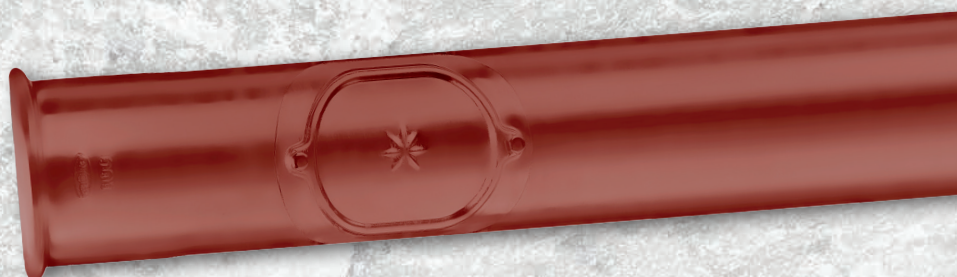
Source: Hanse Haus

WORLD OF COLOUR

 Inspired by nature

ALU 
STAR

GRÓMO





SURFACES

Matt textured or silk gloss. Whether as a unit with windows and doors or as an accent. With the GRÖMO ALUSTAR surfaces, TX and SX, you have a further option to give your roof drainage system an unmistakable appearance.





TX surface

- Textured surface with a noble, matt appearance
- Highly resistant to UV, colour and weather resistant
- Highly scratch- and abrasion resistant



SX surface

- Smooth surface with an elegant, silk gloss lustre appearance
- Wide range of colours
- Good colour-resistance

SURFACE	TX	SX
● Anthracite (RAL 7016)	✱	✱
● Jet black (-RAL 9005)	✱	—
● Light grey (-RAL 7005)	✱	✱
○ White (-RAL 9002)	—	✱
● Testa di Moro (-RAL 8019)	✱	✱
● Moss green (RAL 6005)	—	✱
● Brick red (-RAL 8004)	—	✱
● Oxide red (RAL 3009)	—	✱
● RAL custom colours	—	✱



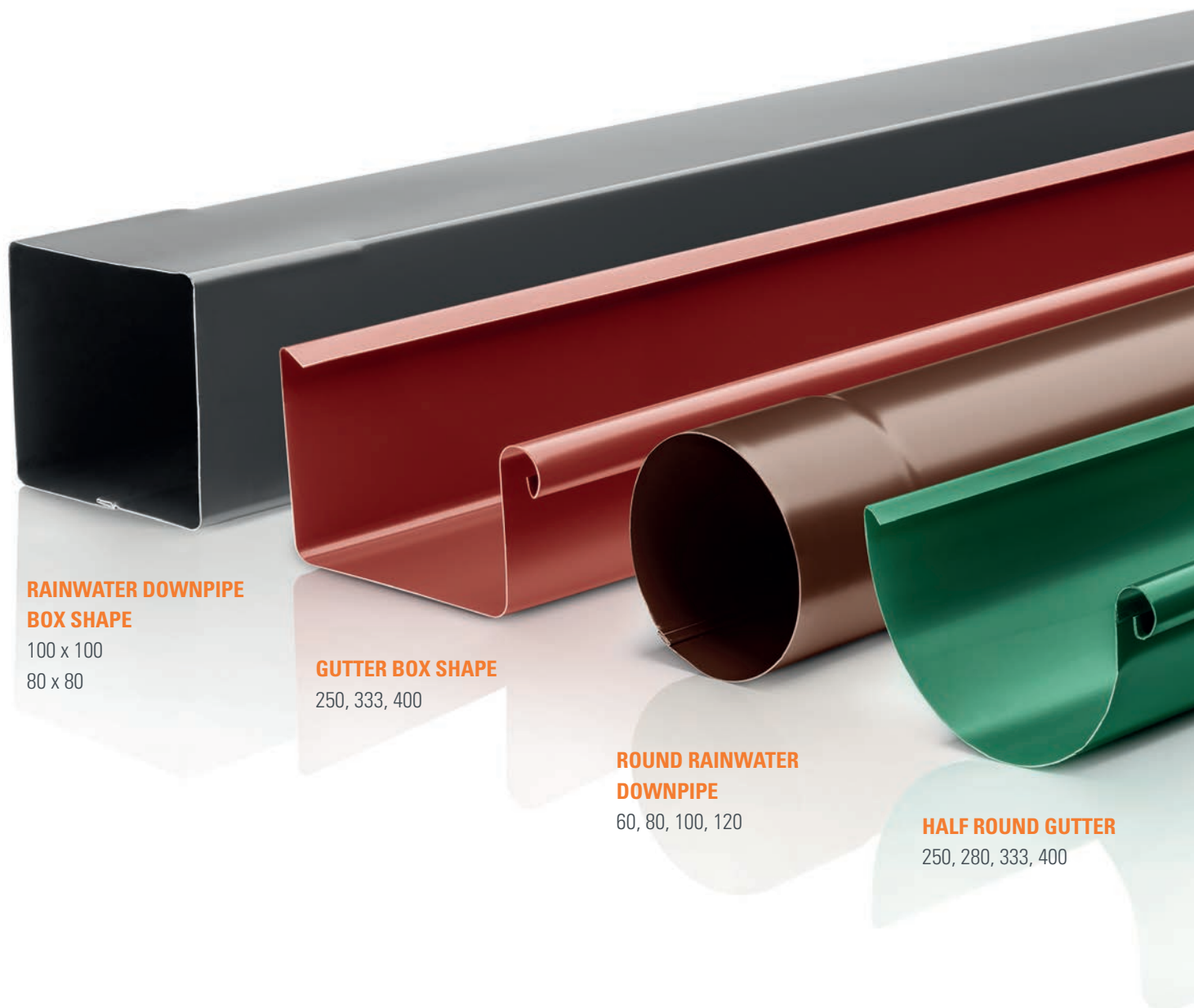
SHAPING DIVERSITY

 Perfectly coordinated



Source: Hanse Haus

Source: Hanse Haus



**RAINWATER DOWNPIPE
BOX SHAPE**

100 x 100
80 x 80

GUTTER BOX SHAPE

250, 333, 400

**ROUND RAINWATER
DOWNPIPE**

60, 80, 100, 120

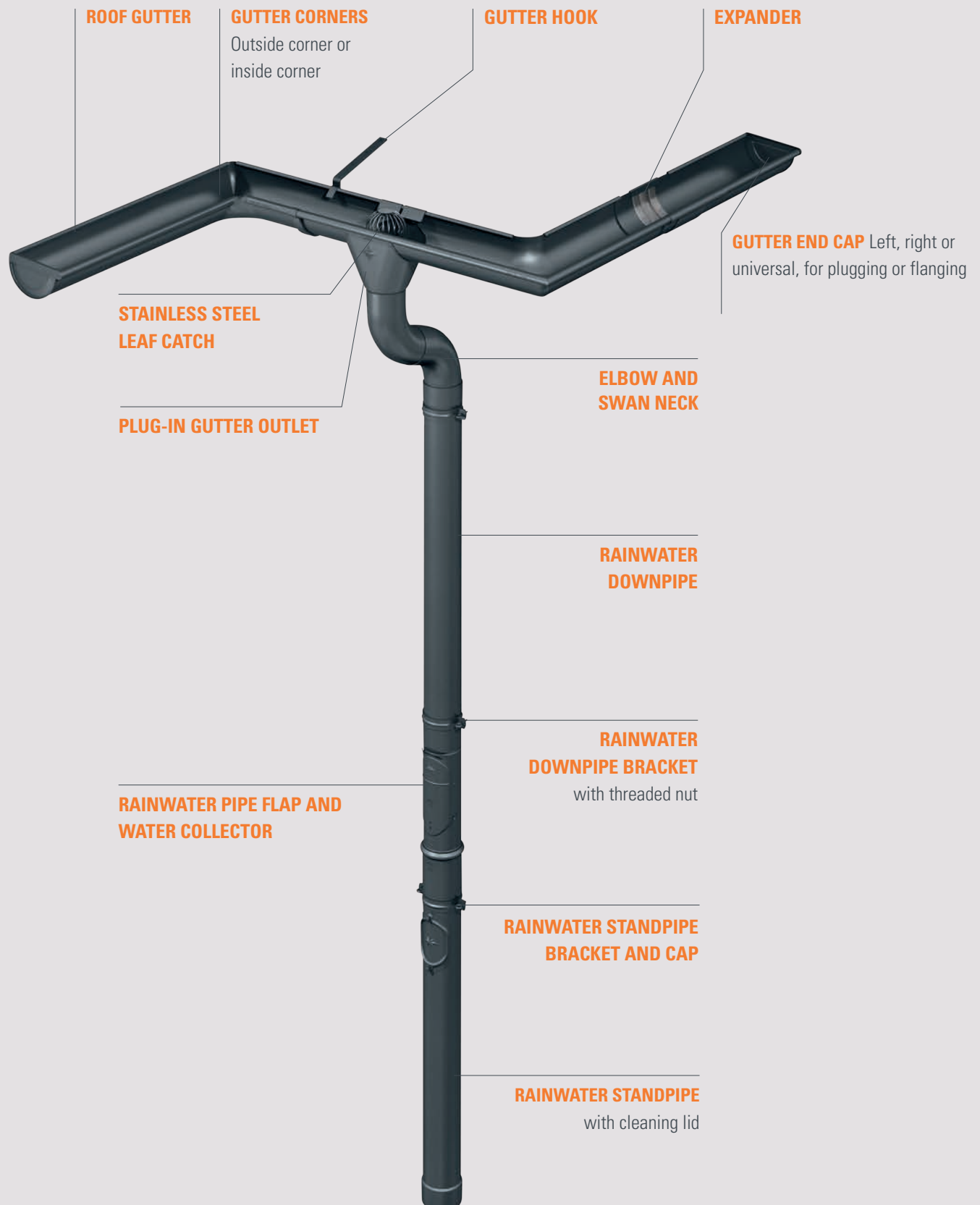
HALF ROUND GUTTER

250, 280, 333, 400

PRODUCT OVERVIEW

Whether steep roof, flat roof, classic, modern or puristic. With the GRÖMO ALUSTAR product range we offer you a wide range of options to realize your requirements and wishes for roof drainage. Our shapes and colours allow countless combinations that offer the optimum solution both functionally and aesthetically!

THE GRÖMO ALUSTAR SYSTEM HALF ROUND/ROUND



THE GRÖMO ALUSTAR SYSTEM BOX SHAPE



THE POWER OF PERFECT BALANCE

GRÖMO ALUSTAR: Aluminium core

Corrosion-resistant, easily formable, and lighter than alternative metals while offering the same strength: these are the product characteristics that make aluminium so popular for roof drainage in particular.



NORM

According to DIN EN 485



DENSITY

2.70 kg/dm³



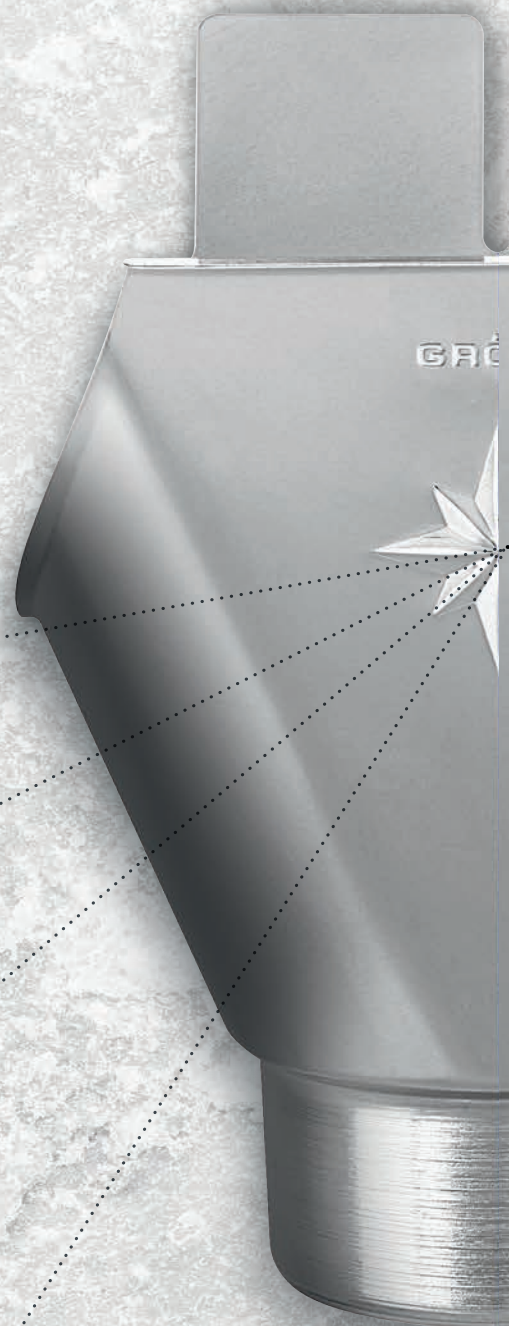
CHANGE IN LENGTH

at 100 K: 2.4 mm/m



MELTING POINT:

659 °C





LIGHTWEIGHT



HIGH STABILITY



EASY PROCESSING



WEATHER-RESISTANT

GRÖMO ALUSTAR products: Multilayered

Provided with a tough coating, GRÖMO ALUSTAR products have an extremely resistant surface. This meets with the highest requirements for UV resistance and the increasing environmental influences. In short: GRÖMO ALUSTAR for all wind and weather.

IN GOOD SHAPE

* DUOFALZ sheet metal strips and cut plates

SURFACE	TX/SX
● Anthracite (RAL 7016)	
● Jet black (-RAL 9005)	
● Dark grey (-DB 703)	
● Grey aluminium (-RAL 9007)	
● Light grey (-RAL 7005)	
● Silver metallic (-RAL 9006)	
○ White (-RAL 9002)	
● Testa di Moro (-RAL 8019)	
● Moss green (RAL 6005)	
● Brick red (-RAL 8004)	
● Oxide red (RAL 3009)	

FRONT

TX coating, 30 µm

BACK

Same colour SX coating, 25 µm

CARRIER MATERIAL

Aluminium 0.7 mm



The DUOFALZ aluminium sheet metal strips and cut plates have been specially developed for use on roofs and facades. Alloying, coating and elasticity are optimised for use in sheet metal technology and guarantee the best possible processing results.

DUOFALZ can be used on both sides and combines the two surfaces, SX and TX, in one product. DUOFALZ thus offers the greatest possible flexibility as well as a wide range of applications!



HIGHLY FLEXIBLE



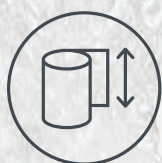
**EXTREMELY
WEATHER-RESISTANT**



LIGHTWEIGHT



EASY PROCESSING



STRIP WIDTH
500, 650, 1000 mm



SHEET SIZES
1000 x 2000/3000 mm



MATERIAL QUALITY
EN AW 3005 H41 (fold quality)



WEIGHT
1,89 kg/m²

Detailed warranty conditions can be found on our website at www.groemo.com.

duo**alz**





SOURCE OF INSPIRATION

* GRÖMO ALUSTAR Object references

Let us inspire you! Discover the diverse possibilities of GRÖMO ALUSTAR roof drainage with our project references.



PEAK PERFORMANCE ✦

✦ GRÖMO ALUSTAR. Quality that convinces.



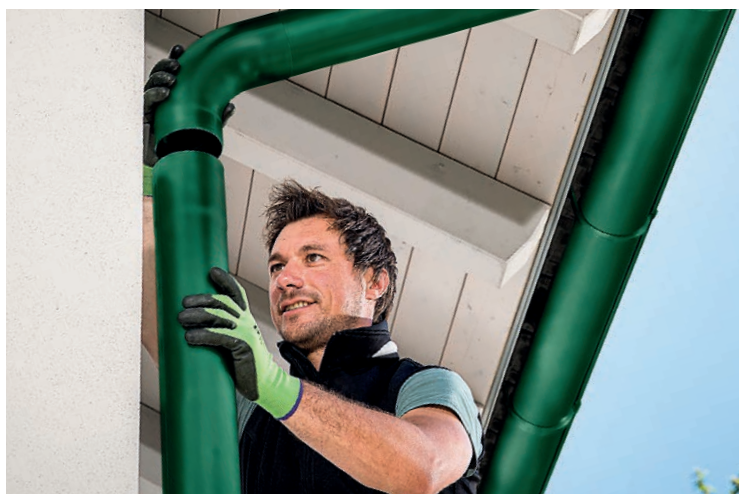
GUARANTEED QUALITY

To ensure that you will always be certain to receive the quality we promise, we do not compromise when it comes to selecting our suppliers or in the coating, testing and inspection of our products. Strict controls, complete documentation of all work processes, continuous improvement and regular training of employees form the basis of the GRÖMO quality standard.

STANDARD-COMPLIANT COMPONENTS

Our GRÖMO ALUSTAR roof drainage components are manufactured according to the Euro-Norm 612 standard. All specifications required by the standard, such as material thickness or cuts, are fulfilled and, in some cases, even exceeded. That is what the GRÖMO star stands for as a quality and trademark.





DETAILS FOR EASY INSTALLATION

Ingenious product details, high accuracy of fit, and highly functional precision work ensure fast, easy, and secure installation of our GRÖMO ALUSTAR components.

HIGH AVAILABILITY AND SHORT PRODUCTION TIMES

The GRÖMO ALUSTAR range is immediately available from stock in all standard colours and sizes.

GRÖMO ALUSTAR products in secondary and custom colours are made to order. Thanks to our short production times, fast delivery is also guaranteed here.



ROUTE PLANNER

All-round care with the GRÖMO service

Our first-class products are only one half of our entrepreneurial success. The other half is based on personalised advice, professional support and a wide range of services.

COLOUR & MATERIAL SAMPLES

Take a look for yourself

Our high-quality colour sample fans and material samples make your decision easier. Request your personalised samples easily and conveniently via our website.



COLOUR CONFIGURATOR

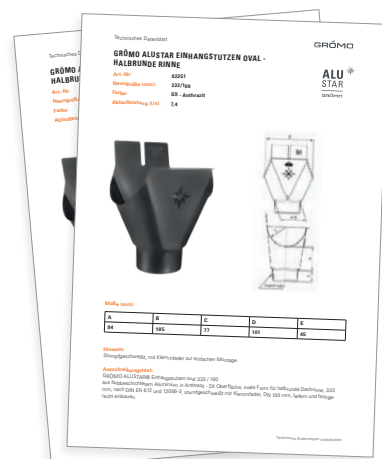
More creative freedom

In our colour configurator, you can quickly and easily see in advance how the GRÖMO ALUSTAR roof drainage system works as a whole, which colour combinations harmonise with each other and which colour could also suit your building.

DIMENSIONED PRODUCT DRAWINGS

For easier planning

We provide dimensional drawings and CAD data of GRÖMO products on our website. This significantly shortens time-consuming planning phases, as you can continue working with the information immediately. All important product dimensions can be seen at a glance.





ASSEMBLY INSTRUCTIONS AND VIDEOS

User-friendly information

Instructions and videos for quick and easy installation of the paint-coated aluminium products are available for download on our website and on YouTube. The individual work steps for a permanent and secure adhesive bond are described, explained and illustrated in detail.

ONLINE SEMINARS

Mastering challenges

The industry is facing ever more challenges – extreme weather conditions, new laws, standards, materials, production techniques, etc. At the same time, new opportunities are opening up.

Deepen your knowledge so you can optimally master the tasks of tomorrow. At GRÖMO, we want to help you stay one step ahead. In our online seminars, we share our knowledge with you and give you practical tips and support.



TECHNICAL ADVICE

For questions about the products

Do you have general or technical questions about our products and their use or about installation in accordance with the relevant technical regulations?

Our application engineers will provide you with fast, uncomplicated assistance.

Application technology

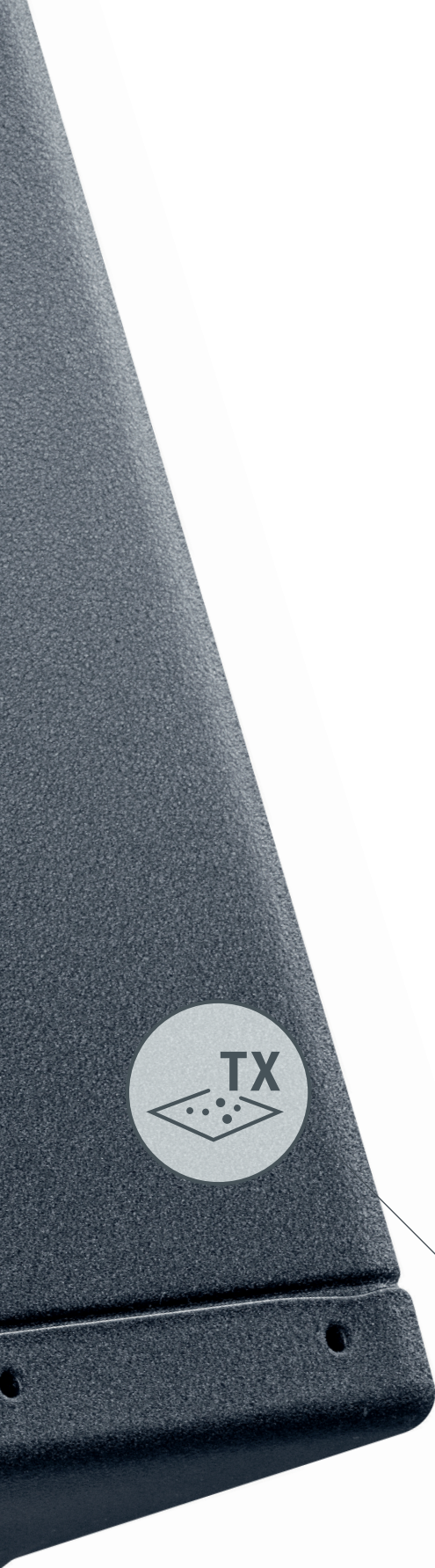
Telephone: +49 8342 912-532

WhatsApp: +49 8342 912-532

E-mail: service@groemo.de

GROMO





GRÖMO ALUSTAR - TX SURFACE

Roof gutters	30
Gutter corners / -accessories	31
Gutter outlets / hoppers	36
Elbows	39
Rainwater downpipes	41
Pipe accessories	42
LED downpipe lighting	54
Rainwater standpipes	57
Metal strips and sheets	59
Accessories	61
Roof accessories	64

TX SURFACE

- Textured surface with a noble, matt appearance
- Highly resistant to UV, colour and weathering
- Highly scratch- and abrasion resistant



GRÖMO ALUSTAR GUTTER, HALF ROUND 3 M

Nenngroße	250	280	333	400
● Anthracite	881001	881011	881021	881031
● Jet black	881008	881018	881028	881038
● Light grey	881003	881013	881023	881033
● Testa di Moro	881002	881012	881022	881032

With protective film



GRÖMO ALUSTAR GUTTER, HALF ROUND 5 M

Nenngroße	250	280	333	400
● Anthracite	881041	881051	881061	881071
● Jet black	881048	881058	881068	881078
● Light grey	881043	881053	881063	881073
● Testa di Moro	881042	881052	881062	881072

With protective film



GRÖMO ALUSTAR GUTTER, BOX SHAPE 3 M

Nenngroße	250	333	400
● Anthracite	881301	881311	881321
● Jet black	881308	881318	881328
● Light grey	881303	881313	881323
● Testa di Moro	881302	881312	881322

With protective film



GRÖMO ALUSTAR GUTTER, BOX SHAPE 5 M

Nenngroße	250	333	400
● Anthracite	881331	881341	881351
● Jet black	881338	881348	881358
● Light grey	881333	881343	881353
● Testa di Moro	881332	881342	881352

With protective film



GRÖMO ALUSTAR GUTTER HOOK HALF ROUND

Nenngroße	250 23x7	280 28x7	333 28x7	400 30x7
● Anthracite	881601	881611	881621	881671
● Jet black	881608	881618	881628	881678
● Light grey	881603	881613	881623	881673
● Testa di Moro	881602	881612	881622	881672

See technical data sheet for dimensions



GRÖMO ALUSTAR GUTTER HOOK HALF ROUND LONG

NEU

Nenngroße	280 28x7	333 28x7
● Anthracite	881651	881661
● Jet black	881658	881668
● Light grey	881653	881663
● Testa di Moro	881652	881662

See technical data sheet for dimensions



GRÖMO ALUSTAR GUTTER HOOK BOX SHAPE

Nenngroße	250 23x7	333 28x7	400 30x7
● Anthracite	881701	881711	881721
● Jet black	881708	881718	881728
● Light grey	881703	881713	881723
● Testa di Moro	881702	881712	881722

See technical data sheet for dimensions



GRÖMO ALUSTAR FASCIA BRACKET HALF ROUND

Nenngroße	250 28x7	280 28x7	333 28x7
● Anthracite	881731	881741	881751
● Jet black	881738	881748	881758
● Light grey	881733	881743	881753
● Testa di Moro	881732	881742	881752

See technical data sheet for dimensions



GRÖMO ALUSTAR FASCIA BRACKET BOX SHAPE

Nenngröße	250 28x7	333 28x7
● Anthracite	881271	881281
● Jet black	881278	881288
● Light grey	881273	881283
● Testa di Moro	881272	881282

See technical data sheet for dimensions



GRÖMO ALUSTAR GUTTER CORNER - EXTERIOR CORNER - 90° - HALF ROUND

Nenngroße	250	280	333	400
● Anthracite	880101	880111	880121	880131
● Jet black	880108	880118	880128	880138
● Light grey	880103	880113	880123	880133
● Testa di Moro	880102	880112	880122	880132

Deep-drawn



GRÖMO ALUSTAR GUTTER CORNER - INTERIOR CORNER - 90° - HALF ROUND

Nenngroße	250	280	333	400
● Anthracite	880001	880011	880021	880031
● Jet black	880008	880018	880028	880038
● Light grey	880003	880013	880023	880033
● Testa di Moro	880002	880012	880022	880032

Deep-drawn



GRÖMO ALUSTAR GUTTER CORNER - EXTERIOR CORNER - 90° - BOX SHAPE

Nenngroße	250	333	400
● Anthracite	880151	880171	880181
● Jet black	880158	880178	880188
● Light grey	880153	880173	880183
● Testa di Moro	880152	880172	880182

Soldered



GRÖMO ALUSTAR GUTTER CORNER - INTERIOR CORNER - 90° - BOX SHAPE

Nenngroße	250	333	400
● Anthracite	880051	880071	880081
● Jet black	880058	880078	880088
● Light grey	880053	880073	880083
● Testa di Moro	880052	880072	880082

Soldered



GRÖMO ALUSTAR PLUG-IN GUTTER END CAP HALF ROUND LEFT

Nenngroße	250	280	333	400
● Anthracite	880401	880411	880421	880431
● Jet black	880408	880418	880428	880438
● Light grey	880403	880413	880423	880433
● Testa di Moro	880402	880412	880422	880432

With mortise groove for easy installation



GRÖMO ALUSTAR PLUG-IN GUTTER END CAP HALF ROUND RIGHT

Nenngroße	250	280	333	400
● Anthracite	880441	880451	880461	880471
● Jet black	880448	880458	880468	880478
● Light grey	880443	880453	880463	880473
● Testa di Moro	880442	880452	880462	880472

With mortise groove for easy installation



GRÖMO ALUSTAR GUTTER END CAP BOX SHAPE UNIVERSAL

Nenngroße	250	333	400
● Anthracite	881801	881811	881821
● Jet black	881808	881818	881828
● Light grey	881803	881813	881823
● Testa di Moro	881802	881812	881822

To hems



GRÖMO ALUSTAR GUTTER EXPANDER - WITH COVER - HALF ROUND

Nenngröße	280	333	400
● Anthracite	881211	881221	881231
● Jet black	881218	881228	881238
● Light grey	881213	881223	881233
● Testa di Moro	881212	881222	881232

Vulcanised on both sides



GRÖMO ALUSTAR GUTTER EXPANDER - WITH COVER - BOX SHAPE

Nenngröße	333	400
● Anthracite	881251	881261
● Jet black	881258	881268
● Light grey	881253	881263
● Testa di Moro	881252	881262

Vulcanised on both sides



LEAF SIEVE

Nenngröße	60	75-80	100	120
● Galvanised steel	501003			
● Stainless steel		540004	540006	540007



GRÖMO ALUSTAR PLUG-IN GUTTER OUTLET OVAL - HALF ROUND GUTTER

Nenngroße	250 60	250 80	280 80	280 100	333 80	333 100	333 120	400 100	400 120
● Anthracite	880201	880211	880221	880231	880241	880251	880261	880281	880271
● Jet black		880218	880228		880248	880258		880288	880278
● Light grey	880203	880213	880223	880233	880243	880253	880263	880283	880273
● Testa di Moro	880202	880212	880222	880232	880242	880252	880262	880282	880272

Butt welded, with spring clip for easy mounting



GRÖMO ALUSTAR PLUG-IN GUTTER OUTLET - BOX SHAPE GUTTER - ROUND PIPE

Nenngroße	250 80	333 100	400 120
● Anthracite	880301	880311	880321
● Jet black	880308	880318	880328
● Light grey	880303	880313	880323
● Testa di Moro	880302	880312	880322

Roll seam welded, with loop for hooking in



GRÖMO ALUSTAR PLUG-IN GUTTER OUTLET - BOX SHAPE GUTTER - BOX SHAPE PIPE

Nenngroße	250 80x80	333 80x80	333 100x100
● Anthracite	880331	880341	880351
● Jet black	880338	880348	880358
● Light grey	880333	880343	880353
● Testa di Moro	880332	880342	880352

Soldered



GRÖMO ALUSTAR OUTLET SPOUT BOX-SHAPED

Nenngroße	80
● Anthracite	880541
● Jet black	880548
● Light grey	880543
● Testa di Moro	880542



GRÖMO ALUSTAR FLAT ROOF HOPPER WITHOUT INFLOW

Nenngroße **100**

● Anthracite	880861
● Light grey	880863
● Testa di Moro	880862

Height: 390 mm, width: 242 mm, depth: 150 mm



GRÖMO ALUSTAR FLAT ROOF HOPPER, CUBIC, WITHOUT INFLOW

Nenngroße **80** **100**

● Anthracite	880901	880871
● Jet black	880908	880878
● Light grey	880903	880873
● Testa di Moro	880902	880872

Height: 200 mm, width: 200 mm, depth: 200 mm



GRÖMO ALUSTAR FLAT ROOF HOPPER, CUBIC, WITHOUT INFLOW

Nenngroße **80** **100**

● Anthracite	880881	880891
● Jet black	880888	880898
● Light grey	880883	880893
● Testa di Moro	880882	880892

Height: 185 mm, width: 180 mm, depth: 160 mm



GRÖMO ALUSTAR DESIGN FLAT-ROOF HOPPER

Nenngroße **80** **100** **120**

● Anthracite	880911	880921	880931
● Jet black	880918	880928	880938

Nominal size 76-80: Height: 210 mm, width: 210 mm, depth: 140 mm
 Nominal size 87 -100: Height: 300 mm, width: 300 mm, depth: 160 mm
 Nominal size 120: Height: 360 mm, width: 360 mm, depth: 180 mm





GRÖMO ALUSTAR HOPPER, CUBIC ECCENTRIC

Nenngröße	80	100	120
● Anthracite	880801	880811	880821
● Jet black	880808	880818	880828
● Light grey	880803	880813	880823
● Testa di Moro	880802	880812	880822

Height: 283 mm, width: 240 mm, depth: 240 mm



GRÖMO ALUSTAR HOPPER, CUBIC ECCENTRIC WITH OVERFLOW PIPE

Nenngröße	80	100	120
● Anthracite	880831	880841	880851
● Light grey	880833	880843	880853
● Testa di Moro	880832	880842	880852

Height: 283 mm, width: 240 mm, depth: 240 mm



TPE SEAL

Nenngröße	
○ Other	940945

Seal 3 m length, for installation in hoppers, for safe drainage of rainwater in attic seals



GRÖMO ALUSTAR PIPE ELBOW 40°

Nenngroße	60	80	100	120
● Anthracite	880601 ²	880611 ¹	880621 ¹	880631 ¹
● Jet black		880618 ¹	880628 ¹	880638 ¹
● Light grey	880603 ²	880613 ¹	880623 ¹	880633 ¹
● Testa di Moro	880602 ²	880612 ¹	880622 ¹	880632 ¹

¹ Butt-welded with indent

² Roll seam welded, without indent



GRÖMO ALUSTAR PIPE ELBOW 72°

Nenngroße	60	80	100	120
● Anthracite	880501 ²	880511 ¹	880521 ¹	880531 ¹
● Jet black		880518 ¹	880528 ¹	880538 ¹
● Light grey	880503 ²	880513 ¹	880523 ¹	880533 ¹
● Testa di Moro	880502 ²	880512 ¹	880522 ¹	880532 ¹

¹ Butt-welded with indent

² Roll seam welded, without indent



GRÖMO ALUSTAR PIPE ELBOW 85°

Nenngroße	60	80	100
● Anthracite	880561 ²	880571 ¹	880581 ¹
● Jet black		880578 ¹	880588 ¹
● Light grey	880563 ²	880573 ¹	880583 ¹
● Testa di Moro	880562 ²	880572 ¹	880582 ¹

¹ Butt-welded with indent

² Roll seam welded, without indent



GRÖMO ALUSTAR SQUARE PIPE ELBOW 72°

Nenngroße	80x80	100x100
● Anthracite	880591	880551
● Jet black	880598	880558
● Light grey	880593	880553
● Testa di Moro	880592	880552

Material thickness 0.6 mm due to production



GRÖMO ALUSTAR SWAN NECK

Nenngröße	80	100	120
● Anthracite	880651	880661	880671
● Jet black	880658	880668	880678
● Light grey	880653	880663	880673
● Testa di Moro	880652	880662	880672



GRÖMO ALUSTAR RAINWATER DOWNPIPE, ROUND 3 M

Nenngröße	60	80	100	120
● Anthracite	881401	881411	881421	881431
● Jet black		881418	881428	881438
● Light grey	881403	881413	881423	881433
● Testa di Moro	881402	881412	881422	881432

With protective film



GRÖMO ALUSTAR RAINWATER DOWNPIPE, BOX SHAPE 2 M

Nenngröße	80x80	100x100
● Anthracite	881491	881441
● Jet black	881498	881448
● Light grey	881493	881443
● Testa di Moro	881492	881442

Without protective film



GRÖMO ALUSTAR RAINWATER PIPE FLAP WITH STAINLESS STEEL SIEVE

Nenngröße	80	100	120
● Anthracite	880731	880741	880751
● Jet black	880738	880748	880758
● Light grey	880733	880743	880753
● Testa di Moro	880732	880742	880752

Regularly clean sieve and remove in winter due to risk of frost!



GRÖMO ALUSTAR DESIGN WATER COLLECTOR



Nenngröße	80	100
● Anthracite	880941	880771
● Jet black	880948	880778
● Light grey	880943	880773
● Testa di Moro	880942	880772

Incl. hose set, consisting of 1" hose with a length of 33 cm and barrel connector



ERSATZTEIL: HOSE WITH CONNECTORS FOR DESIGN WATER COLLECTOR

Nenngröße	80-100
○ Other	980943

ERSATZTEIL: SEALING CAP

Nenngröße	1"
○ Other	980944



GRÖMO ALUSTAR WATER COLLECTOR

Nenngröße	80	100	120
● Anthracite	880701	880711	880721
● Jet black			880728
● Light grey	880703	880713	880723
● Testa di Moro	880702	880712	880722

Including hose set consisting of 1" hose (for NG 76-100: Length 33 cm / for NG 120: Length 24 cm) and barrel connector

ERSATZTEIL: HOSE WITH CONNECTORS

Nenngröße	76-120
○ Other	980942

ERSATZTEIL: SEALING CAP

Nenngröße	76-120
○ Other	980939

Suitable for aluminium water collectors



HOSE FOR WATER COLLECTOR

Nenngröße	1"
○ Other	500948

In a roll with a length of 5 metres. Suitable for all water collectors with 1" hose



DESIGN-RAIN BARREL



Nenngröße	650x750x860	650x750x860 - Set
● Anthracite	880761 ²	880781 ¹

¹ Consisting of side panelling, sliding cover and GRAF square 300 litre plastic rain barrel. Dimensions of designer rain barrel (L x W x H): 770 x 650 x 860 mm

² Consisting of side panelling and sliding cover. Suitable for GRAF plastic rain barrel square 300 litres. Dimensions of designer rain barrel (L x W x H): 770 x 650 x 860 mm





GRÖMO ALUSTAR FLAT-ROOF BRANCH

Nenngroße	75 80	75 100	110 100	110 120
● Anthracite	881121	881131	881151	881141
● Jet black	881128	881138	881158	881148
● Light grey	881123	881133	881153	881143
● Testa di Moro	881122	881132	881152	881142

Includes pre-mounted inflow seal



GRÖMO ALUSTAR FLAT-ROOF BRANCH BOX-SHAPE

Nenngroße	75 80x80	75 100x100	110 100x100
● Anthracite	881964	881971	881981
● Jet black	881967	881974	881984
● Light grey	881966	881973	881983
● Testa di Moro	881965	881972	881982

Includes pre-mounted inflow seal



GRÖMO ALUSTAR BALCONY BRANCH 87.5° BOX-SHAPE

Nenngroße	75 80x80	75 100x100
● Anthracite	881975	881960
● Jet black	881978	881963
● Light grey	881977	881962
● Testa di Moro	881976	881961

Includes pre-mounted inflow seal



GRÖMO ALUSTAR DOWNPIPE BRANCH 72°

Nenngröße	80 60	80 80	100 60	100 80	100 100	120 80	120 100	120 120
● Anthracite	881551	881501	881511	881521	881531	881561	881571	881581
● Jet black		881508		881528	881538			
● Light grey	881553	881503	881513	881523	881533	881563	881573	881583
● Testa di Moro	881552	881502	881512	881522	881532	881562	881572	881582

Also available with other bracket, diameter, double branch, or Y-branch upon request



GRÖMO ALUSTAR STANDPIPE CAP

Nenngröße	80 116	100 116	100 150	120 150
● Anthracite	881451	881461	881471	881481
● Jet black	881458	881468	881478	881488
● Light grey	881453	881463	881473	881483
● Testa di Moro	881452	881462	881472	881482



GRÖMO ALUSTAR SLIDING SLEEVE

Nenngröße	80	100
● Anthracite	881761	881771
● Light grey	881763	881773
● Testa di Moro	881762	881772



GRÖMO ALUSTAR CONNECTION SLEEVE (PIPE CONNECTOR)

Nenngröße	80	100	120
● Anthracite	881161	881171	881181
● Jet black	881168	881178	881188
● Light grey	881163	881173	881183
● Testa di Moro	881162	881172	881182



GRÖMO ALUSTAR CONNECTION SLEEVE WITH SEAL

Nenngröße	75 80	110 100
● Anthracite	881195	881196

Includes pre-mounted inflow seal

ERSATZTEIL: LIP SEAL RING

Nenngröße	75
○ Other	980949

Suitable for all flat roof branches except UGINOX Patina K41



GRÖMO ALUSTAR DESIGN DOWNPIPE BRACKET WITH THREADED NUT M10



Nenngröße	100
● Anthracite	881941
● Jet black	881948
● Light grey	881943
● Testa di Moro	881942



ERSATZTEIL: SCREW WITH LOCK WASHER

Nenngröße	100
● Stainless steel	980330



GRÖMO ALUSTAR DOWNPIPE BRACKET WITH THREADED NUT M10

Nenngröße	60	80	100	120
● Anthracite	881831	881841	881851	881861
● Jet black		881848	881858	881868
● Light grey	881833	881843	881853	881863
● Testa di Moro	881832	881842	881852	881862

For connecting to SPI dowel, hanger bolt, or thermo stop



GRÖMO ALUSTAR DOWNPIPE BRACKET, SQUARE, WITH THREADED NUT M10

Nenngröße	80x80	100x100
● Anthracite	881781 ¹	881791 ²
● Jet black	881788 ¹	881798 ²
● Light grey	881783 ¹	881793 ²
● Testa di Moro	881782 ¹	881792 ²

¹ For connecting to SPI dowel, hanger bolt, or thermo stop. Threaded nut, galvanised

² Made from galvanised steel. For connecting to SPI dowel, hanger bolt, or thermo stop. Threaded nut, galvanised. Also suitable for fixing the square standpipe



HANGER BOLT M10

Nenngroße	M10 100	M10 140	M10 200	M10 250	M10 290
● Stainless steel	540313	540314	540315	540316	540317

With spanner flat



BASEPLATE WITH THREADED NUT M8/M10

Nenngroße	M8 M10
● Stainless steel	540219



THERMO STOP

Nenngroße	M10
● Stainless steel	540211

Prevents thermal bridge between hanger bolt and pipe bracket



STG PIPE BRACKET SUPPORT

Nenngroße	80-120	120-160	160-200	200-240	240-320
● Stainless steel	540240 ¹	540241 ¹	540242 ¹	540243 ¹	540244 ²

¹ Mounting solution for pipe brackets with thermal insulation systems. In Austria, obtainable from Likunet company in Gänserndorf

² Mounting solution for pipe brackets with thermal insulation systems, 2 pieces. In Austria, obtainable from Likunet company in Gänserndorf



SPI PIPE BRACKET PLUG

Nenngroße	M10 130	M10 260	M10 330
● Stainless steel	940236	940237	940238

Can be used with building height up to 8 m. If building height is over 8 m, follow the accepted rules of technology of the plumber/roofer trade!



DOWNPIPE STOPGAP

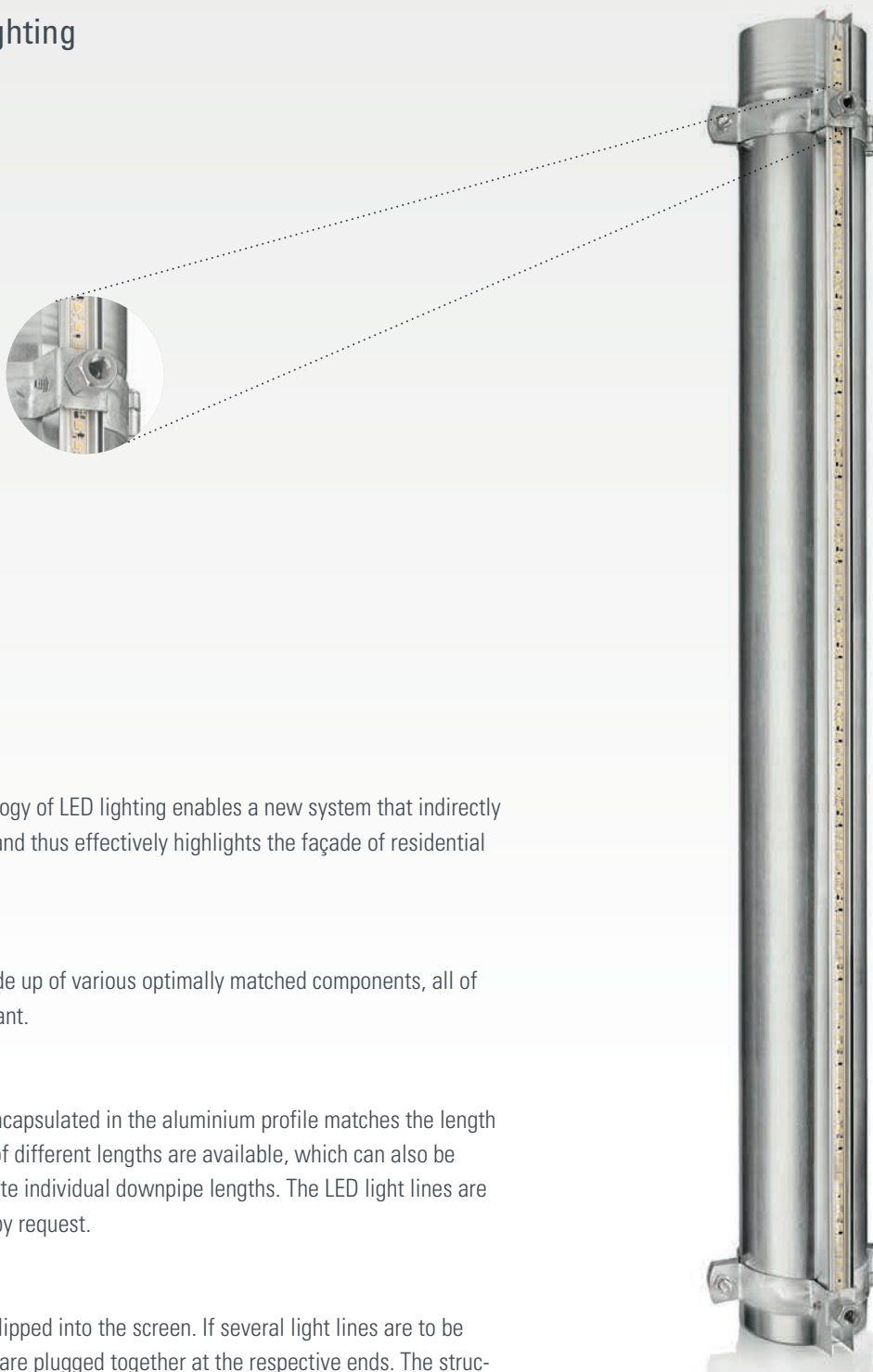
Nenngröße	60-120 8	60-120 100
Other	940910 ¹	940920 ²

¹ Roll length 8 m. Compatible with downpipe diameter 120 mm

² Roll length 100 m. Compatible with downpipe diameter 120 mm

SKY LIGHTS

* The LED downpipe lighting



The constantly advancing technology of LED lighting enables a new system that indirectly backlights rainwater downpipes and thus effectively highlights the façade of residential buildings or industrial halls.

Elegant and durable

The LED downpipe lighting is made up of various optimally matched components, all of which are weather and UV-resistant.

Made to fit

To ensure that the LED lighting encapsulated in the aluminium profile matches the length of the downpipe, LED light lines of different lengths are available, which can also be combined with each other to create individual downpipe lengths. The LED light lines are also available in special lengths by request.

Simple installation

The LED linear lights are simply clipped into the screen. If several light lines are to be combined, the cable connections are plugged together at the respective ends. The structure can then be mounted on the downpipe using a specially designed downpipe bracket.

Up to the sky

There are virtually no limits to the range of applications for the innovative GRÖMO LED lighting system. With one supply line, it can be installed up to a maximum height of 11.5 metres, or nearly twice that with two supply lines. Depending on the ballast and control unit, the light sources can be integrated into the house control system and individual accents can be set.



DOWNPIPE BRACKET



The downpipe bracket specially developed for the LED downpipe lighting has a U-shaped extension into which the linear lights and screen are inserted and fastened with a hexagon socket threaded pin. The downpipe bracket thus ensures uninterrupted, visually pleasing and durable fixing of the LED lighting to the downpipe.

COVER

The aluminium profiles of the LED linear lights are mounted in a cover made of a U-shaped metal profile by clipping them into place. The cover fulfils three functions: The profile conceals the technical details and thus ensures the desired appearance. It protects against the weather and serves as a fastener to fix the LED linear lights to the downpipe bracket.



CONNECTING SLEEVE



The connecting sleeve enables a seamless transition between the screens of the individual light lines. Simply pushed over the joints, it fixes the screens in place, ensuring thermally induced length compensation and an appealing continuous look.

LED LINEAR LIGHT

VarioLED™ IP67 are fully encapsulated, linear LED light lines in an aluminium profile with excellent heat dissipation. A clear polyurethane encapsulation protects them from moisture, dust, dirt and UV radiation. They therefore comply with protection class IP67. The light lines are supplied ready to plug in with a mini IP67 connector at both ends. The integrated HYDRA PRO SW LED strips are single-channel, dimmable strips for 24V constant voltage with an output of 4 W/m (380 lumens) and a colour temperature of approx. 6,700 K. The stimulating, cool white light ensures radiant brightness and good colour rendering on the façade. The linear light sources are robust and have an average service life of around 60,000 hours.

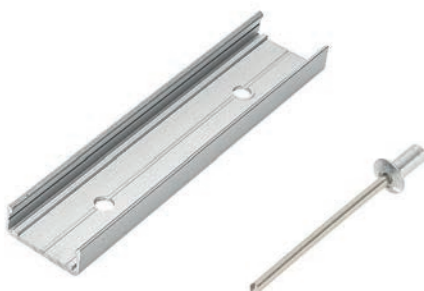


CONNECTION CABLE

The LED linear light is connected to the ballast or control unit via the two metre long cable with mini IP67 socket.

SILICONE PROTECTIVE CAP

The top cable plug is sealed with the protective cap to protect it from the weather and as a safety measure.



MOUNTING BRACKETS AND RIVETS

In order to additionally stabilise the LED light lines for individual special lengths, additional mounting brackets can be fixed to the desired position on the screen using rivets.

ORDER INFORMATION

Six different lengths of LED linear lights are available to ensure that the LED lighting encapsulated in the aluminium profile matches the length of the downpipe. The standard version with 2,894 mm is designed for a three metre long downpipe. There are five other length versions for shorter downpipes. Numerous different LED lengths can be implemented by using them individually or in combination.

The following table provides an overview of the possible LED lighting lengths and the required products and quantities that can be implemented with the available standard LED linear lights. If these lengths are not sufficient due to the structural conditions, customised special lengths are available by request.

	VarioLED 207 mm	VarioLED 332 mm	VarioLED 519 mm	VarioLED 957 mm	VarioLED 1,957 mm	VarioLED 2,894 mm	Downpipe bracket	Cover	Connecting sleeve	Connection cable	Protective cap	Mounting bracket	Blind rivet
Lighting length* [mm]	940942	940943	940944	940950	940951	940941	500281 500282 881871 881872	620908 881873	620909 881874	940949	940948	940908	840909
242	1						1	1	1	1	1		
367		1					2	1	1	1	1		
484	2						2	1	1	1	1	1	1
554			1				2	1	1	1	1	1	1
609	1	1					2	1	1	1	1	1	1
734		2					2	1	1	1	1		
796	1		1				2	1	1	1	1	1	1
921		1	1				2	1	1	1	1	2	1
992				1			2	1	1	1	1		
1108			2				2	1	1	1	1	2	1
1234	1			1			2	1	1	1	1	1	1
1359		1		1			2	1	1	1	1	1	1
1476	2			1			2	1	1	1	1	2	1
1546			1	1			2	1	1	1	1	2	1
1601	1	1		1			2	1	1	1	1	2	1
1726		2		1			2	1	1	1	1	2	1
1788	1		1	1			2	1	1	1	1	2	1
1913		1	1	1			3	1	1	1	1	2	1
1992					1		3	1	1	1	1		
2100			2	1			3	1	1	1	1	3	1
2234	1				1		3	1	1	1	1		
2359		1			1		3	1	1	1	1		
2476	2				1		3	1	1	1	1	1	1
2546			1		1		3	1	1	1	1	1	1
2601	1	1			1		3	1	1	1	1	1	1
2726		2			1		3	1	1	1	1	1	1
2788	1		1		1		3	1	1	1	1	1	1
2929						1	3	1	1	1	1		
3000						1	3	1	1	1	1		

* A distance of 35 mm is provided between the LED linear lights for the plug-in connection to each other and at the end. When planning the lighting lengths, it must be ensured that the linear lights are at least 150 mm away from the water-bearing level (local conditions must be taken into account!).



GRÖMO ALUSTAR DOWNPIPE BRACKET WITH THREADED NUT M10 FOR LED DOWNPIPE LIGHTING

Nenngröße	100	120
● Anthracite	881871	881872

ERSATZTEIL: REPLACEMENT SCREWS

Nenngröße	
● Stainless steel	540331

Set consisting of hexagon head screw M8, O-ring, hexagon nut M8 and hexagon socket threaded pins



GRÖMO ALUSTAR COVER FOR LED DOWNPIPE LIGHTING

Nenngröße	2900
● Anthracite	881873



GRÖMO ALUSTAR CONNECTING SLEEVE FOR LED DOWNPIPE LIGHTING

Nenngröße	200
● Anthracite	881874



LED LINEAR LIGHT

Nenngröße	207	332	519	957	1957	2894	Sonderlänge
☐ Other	940942	940943	940944	940950	940951	940941	940947



CONNECTION CABLE

Nenngröße	
☐ Other	940949



SILICONE PROTECTIVE CAP

Nenngröße	
☐ Other	940948



MOUNTING BRACKET FOR LED LINEAR LIGHT

Nenngröße	90
☐ Other	940908



BLIND RIVET 4X6 MM FOR MOUNTING BRACKET

Nenngröße		4x6
☒ Other		840909

Packet, 100 pcs





GRÖMO ALUSTAR RAINWATER STANDPIPE 1.0 M - WITH CLEANING LID

Nenngröße	80	100	120
● Anthracite	881361	881371	881381
● Jet black	881368	881378	881388
● Light grey	881363	881373	881383
● Testa di Moro	881362	881372	881382

Made from galvanised steel. Fits directly on all common sewage pipes. No additional connectors necessary!



GRÖMO ALUSTAR RAINWATER STANDPIPE SQUARE 1.0 M - WITH CLEANING LID

Nenngröße	100x100
● Anthracite	881391
● Jet black	881398
● Light grey	881393
● Testa di Moro	881392

Made from galvanised steel. Without seal element, with preformed connector, outer diameter 102 mm

ERSATZTEIL: CLAMP CAP FOR HEXAGON NUT M8

Nenngröße	
○ Other	980575



GRÖMO ALUSTAR DOWNPIPE TO STANDPIPE ADAPTER BOX SHAPE TO ROUND

Nenngröße	80 80	100 100
● Anthracite	881631	881641
● Jet black	881638	881648
● Light grey	881633	881643
● Testa di Moro	881632	881642

On NG 100, made of titanium zinc



GRÖMO ALUSTAR RAINWATER STANDPIPE BRACKET WITH THREADED NUT M10

Nenngroße	80	100	120
● Anthracite	881881	881891	881901
● Jet black	881888	881898	881908
● Light grey	881883	881893	881903
● Testa di Moro	881882	881892	881902

Made from galvanised steel. Threaded nut, galvanised. For connecting to SPI dowel, hanger bolt, or thermo stop



DUOFALZ SHEET METAL STRIP 60 KG

Nenngröße	0,7x500	0,7x650	0,7x1000
● Anthracite	810081 ²	810091 ²	810101 ²
● Jet black	810088 ²	810098 ²	810108 ²
● Dark gray	821089 ²	821099 ²	821109 ²
● Grey aluminium			821112 ¹
● Light grey	810083 ²	810093 ²	810103 ²
● Silver metallic	821090 ²	821100 ²	821110 ²
● White	810084 ²	810094 ²	810104 ²
● Testa di Moro	810082 ²	810092 ²	810102 ²
● Moss green	810085 ²	810095 ²	810105 ²
● Brick red	810086 ²	810096 ²	810106 ²
● Oxide red	810087 ²	810097 ²	810107 ²

¹ Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front and back side: TX coating. On request also available in other roll sizes (> 15 m). Make sure that the batches are the same and that they are laid in the same direction.

² Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front side: TX coating, rear side: Same colour SX coating. On request also available in other roll sizes (> 15 m) and in stucco. Pay attention to batch uniformity and laying direction



DUOFALZ STUCCO SHEET METAL STRIP 60 KG

Nenngröße	0,7x500	0,7x650
● Anthracite	821591	821691

Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front side: TX coating, rear side: Same colour SX coating. On request also available in other roll sizes (> 15 m) and in stucco. Pay attention to batch uniformity and laying direction



DUOFALZ SHEET METAL STRIP 500 KG

Nenngröße	0,7x500	0,7x650	0,7x1000
● Anthracite	810191 ²	810271 ²	810281 ²
● Jet black	821194 ²	810278 ²	810288 ²
● Dark gray		821279 ²	821289 ²
● Grey aluminium			821287 ¹
● Light grey		810273 ²	810283 ²
● Silver metallic		821280 ²	821290 ²
● Testa di Moro		810272 ²	810282 ²

¹ Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front and back side: TX coating. On request also available in other roll sizes (> 15 m). Make sure that the batches are the same and that they are laid in the same direction.

² Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front side: TX coating, rear side: Same colour SX coating. On request also available in other roll sizes (> 15 m) and in stucco. Pay attention to batch uniformity and laying direction



DUOFALZ METAL SHEET

Nenngröße	0,7x1000x2000	0,7x1000x3000
● Anthracite	810291 ²	810951 ¹
● Jet black	810298 ²	810958 ¹
● Dark gray	821299 ²	
● Light grey	810293 ²	
○ White	810294 ²	810954 ¹
● Testa di Moro	810292 ²	
● Moss green	810295 ²	
● Brick red	810296 ²	
● Oxide red	810297 ²	

¹ Sheet size: 0.7 x 1000 x 3000 mm. With protective film on the SX side, One panel corresponds to approx. 6.08 kg, Material grade: EN AW 3005 H41 (fold quality Can be used on both sides. FRONT: TX coating, rear side: Same colour SX coating. Other colours on request. Make sure that the batches are the same and that they are laid in the same direction.

² Sheet size: 0.7 x 1000 x 2000 mm. With protective film on the SX side, One panel corresponds to approx. 4.05 kg, Material grade: EN AW 3005 H41 (fold quality Can be used on both sides. FRONT: TX coating, rear side: Same colour SX coating. Moss green and oxide red by request Make sure that the batches are the same and that they are laid in the same direction.



DUOFALZ STUCCO METAL SHEET

NEU

Nenngröße	0,7x1000x2000
● Anthracite	821595

Panel size: 0.7 x 1000 x 2000 mm. Without protective film. One panel weighs approx. 3.84 kg. Material grade: EN AW 3005 H41. Can be used on one side (TX side). Back side: SX coating in matching color. Ensure batch consistency and correct installation direction.



FIXED CLIPS

Nenngroße	25	32
● Stainless steel	830930	830931



SLIDING CLIPS

Nenngroße	25	32
● Stainless steel	830932	830933



LONG SLIDING CLIPS

Nenngroße	25	32
● Stainless steel	830934	830935



FIXED U CLIPS

Nenngroße	75
● Stainless steel	830936



SLIDING U CLIPS

Nenngroße	78
● Stainless steel	830937



GRÖMO ALUSTAR SPECIAL ADHESIVE (INNOTEC ADHESEAL BLACK)

Nenngröße

☒ Other	830938
--	--------

Cartridge (290 ml), observe processing guidelines and safety data sheet



GRÖMO ALUSTAR SPECIAL CLEANER (INNOTEC REPAPLAST CLEANER ANTISTATIC)

Nenngröße

☒ Other	830939
--	--------

Aerosol can (500 ml), observe processing guidelines and safety data sheet



GRÖMO ALUSTAR PRIMER (INNOTEC REPAPLAST PRIMER NEW FORMULA)

Nenngröße

☒ Other	830941
--	--------

Aerosol can (500 ml), observe processing guidelines and safety data sheet



SEAM GEL

Nenngröße	300
-----------	-----

☒ Other	830940
--	--------

Cartridge 300 ml, transparent, UV-resistant, observe processing guidelines and safety data sheet. For approx. 25-30 m double seam



SEALING TAPE (BEKO)

Nenngröße

1-4

Other

940938

Roll 13 metres long, for sealing double standing seams with joints 1-4 mm wide



GRÖMO ALUSTAR TOUCH-UP STICK

NEU

Nenngröße

Anthracite

880991

Jet black

880998

Light grey

880993

Testa di Moro

880992

Contents 8 ml. Observe processing guidelines and safety data sheet.



VENTILATOR RIDGE UNIT

Nenngröße

● Stainless steel	540035
-------------------	--------

Length 1905 mm



GRÖMO ALUSTAR ADHESIVE TRIM

Nenngröße

100-125

● Anthracite	882021
● Light grey	882023
● Testa di Moro	882022

With adhesive flange for ventilation pipes ø100-125, roof angle 7-50°



GRÖMO ALUSTAR ADHESIVE TRIM 2-PIECE

Nenngröße

60-100

● Anthracite	882031
● Light grey	882033
● Testa di Moro	882032

With adhesive flange for ventilation pipes ø60-100, roof angle 5-50°



GRÖMO ALUSTAR OUTLET VENT WITH VENT CAP

Nenngröße

110

125

● Anthracite	882001	882011
● Light grey	882003	882013
● Testa di Moro	882002	882012

With variable rain collar



GRÖMO ALUSTAR SNOW GUARD PIPE

Nenngröße	28
-----------	----

● Anthracite	882101
● Light grey	882103
● Testa di Moro	882102

Length 3 metres. Price per metre. Polished cut edge on a pipe end. Connecting sleeves available separately



GRÖMO ALUSTAR CONNECTING SLEEVE

Nenngröße	28
-----------	----

● Anthracite	882111
● Light grey	882113
● Testa di Moro	882112

For connecting snow guard pipes



GRÖMO ALUSTAR SNOW GUARD BRACKET, SINGLE

Nenngröße	einfach
-----------	---------

● Anthracite	882121
● Light grey	882123
● Testa di Moro	882122



GRÖMO ALUSTAR SNOW GUARD BRACKET, DOUBLE

Nenngröße	doppelt
-----------	---------

● Anthracite	882131
● Light grey	882133
● Testa di Moro	882132



GRÖMO ALUSTAR ICE CATCHER

Nenngröße	75
-----------	----

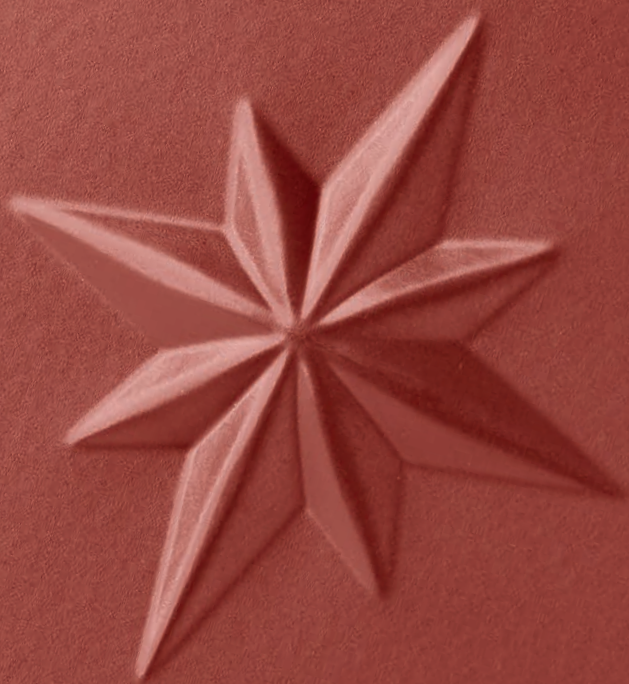
● Anthracite	882141
● Light grey	882143
● Testa di Moro	882142

SX SURFACE

- Smooth surface with an elegant, silk gloss appearance
- Wide range of colours
- Good colour fastness



GRÖMO



GRÖMO ALUSTAR - SX SURFACE

Roof gutters	68
Gutter corners / -accessories	69
Gutter outlets / Hoppers	75
Elbows	78
Rainwater downpipes	80
Pipe accessories	81
Rainwater standpipes	89
Metal strips and sheets	91
Accessories	93
Roof accessories	95

333-100
DIN EN
12056-3



GRÖMO ALUSTAR GUTTER, HALF ROUND 3 M

Nominal size	250	280	333	400
● Anthracite	821001 ¹	821011 ¹	821021 ¹	821031 ¹
● Light grey	821003 ¹	821013 ¹	821023 ¹	821033 ¹
○ White	821004 ¹	821014 ¹	821024 ¹	821034 ¹
● Testa di Moro	821002 ¹	821012 ¹	821022 ¹	821032 ¹
● Moss green	821005 ¹	821015 ¹	821025 ¹	821035 ¹
● Brick red	821006 ¹	821016 ¹	821026 ¹	821036 ¹
● Oxide red	821007 ¹	821017 ¹	821027 ¹	821037 ¹
● RAL - custom colour	821000 ²	821010 ²	821020 ²	821030 ²

¹ With protective film

² Without protective film



GRÖMO ALUSTAR GUTTER, HALF ROUND 5 M

Nominal size	250	280	333	400
● Anthracite	821041	821051	821061	821071

With protective film



GRÖMO ALUSTAR GUTTER, BOX SHAPE 3 M

Nominal size	250	333	400
● Anthracite	821301 ¹	821311 ¹	821321 ¹
● Light grey	821303 ¹	821313 ¹	821323 ¹
○ White	821304 ¹	821314 ¹	821324 ¹
● Testa di Moro	821302 ¹	821312 ¹ *	821322 ¹
● Moss green	821305 ¹	821315 ¹	821325 ¹
● Brick red	821306 ¹	821316 ¹	821326 ¹
● Oxide red	821307 ¹	821317 ¹	821327 ¹
● RAL - custom colour	821300 ²	821310 ²	821320 ²

¹ With protective film

² Without protective film

* Discontinued item, available only while stocks last



GRÖMO ALUSTAR GUTTER, BOX SHAPE 5 M

Nominal size	250	333	400
● Anthracite	821331	821341	821351

With protective film



GRÖMO ALUSTAR GUTTER HOOK HALF ROUND

Nominal size	250 23x7	280 28x7	333 28x7	333 30x5	400 30x7
● Anthracite	821601 ¹	821611 ¹	821621 ¹	821681 ²	821671 ¹
● Light grey	821603 ¹	821613 ¹	821623 ¹	821683 ²	821673 ¹
○ White	821604 ¹	821614 ¹	821624 ¹		821674 ¹
● Testa di Moro	821602 ¹	821612 ¹	821622 ¹	821682 ²	821672 ¹
● Moss green	821605 ¹	821615 ¹	821625 ¹		821675 ¹
● Brick red	821606 ¹	821616 ¹	821626 ¹		821676 ¹
● Oxide red	821607 ¹	821617 ¹	821627 ¹		821677 ¹
● RAL - custom colour	821600 ¹	821610 ¹	821620 ¹		821670 ¹

¹ See technical data sheet for dimensions

² Made from galvanised steel. See technical data sheet for dimensions



GRÖMO ALUSTAR GUTTER HOOK HALF ROUND LONG

NEW

Nominal size	280 28x7	333 28x7
● Anthracite	821651	821661
● Light grey	821653	821663
○ White	821654	821664
● Testa di Moro	821652	821662
● Moss green	821655	821665
● Brick red	821656	821666
● Oxide red	821657	821667
● RAL - custom colour	821650	821660

See technical data sheet for dimensions



GRÖMO ALUSTAR GUTTER HOOK BOX SHAPE

Nominal size	250 23x7	333 28x7	400 30x7
● Anthracite	821701	821711	821721
● Light grey	821703	821713	821723
○ White	821704	821714	821724
● Testa di Moro	821702	821712	821722
● Moss green	821705	821715	821725
● Brick red	821706	821716	821726
● Oxide red	821707	821717	821727
● RAL - custom colour	821700	821710	821720

See technical data sheet for dimensions



GRÖMO ALUSTAR FASCIA BRACKET HALF ROUND

Nominal size	250 28x7	280 28x7	333 28x7
● Anthracite	821731	821741	821751
● Light grey	821733	821743	821753
○ White	821734	821744	821754
● Testa di Moro	821732	821742	821752
● Moss green	821735	821745	821755
● Brick red	821736	821746	821756
● Oxide red	821737	821747	821757
● RAL - custom colour	821730	821740	821750

See technical data sheet for dimensions



GRÖMO ALUSTAR FASCIA BRACKET BOX SHAPE

Nominal size	250 28x7	333 28x7
● Anthracite	820941	820951
● RAL - custom colour	820940	820950

See technical data sheet for dimensions



GRÖMO ALUSTAR GUTTER CORNER - EXTERIOR CORNER - 90° - HALF ROUND

Nominal size	250	280	333	400
● Anthracite	820101	820111	820121	820131
● Light grey	820103	820113	820123	820133
○ White	820104	820114	820124	820134
● Testa di Moro	820102	820112	820122	820132
● Moss green	820105	820115	820125	820135
● Brick red	820106	820116	820126	820136
● Oxide red	820107	820117	820127	820137
● RAL - custom colour	820100	820110	820120	820130

Deep-drawn



GRÖMO ALUSTAR GUTTER CORNER - INTERIOR CORNER - 90° - HALF ROUND

Nominal size	250	280	333	400
● Anthracite	820001	820011	820021	820031
● Light grey	820003	820013	820023	820033
○ White	820004	820014	820024	820034
● Testa di Moro	820002	820012	820022	820032
● Moss green	820005	820015	820025	820035
● Brick red	820006	820016	820026	820036
● Oxide red	820007	820017	820027	820037
● RAL - custom colour	820000	820010	820020	820030

Deep-drawn



GRÖMO ALUSTAR GUTTER CORNER - EXTERIOR CORNER - 90° - BOX SHAPE

Nominal size	250	333	400
● Anthracite	820151	820171	820181
● Light grey	820153	820173	820183
○ White	820154	820174	820184
● Testa di Moro	820152	820172	820182
● Moss green	820155	820175	820185
● Brick red	820156	820176	820186
● Oxide red	820157	820177	820187
● RAL - custom colour	820150	820170	820180

Soldered



GRÖMO ALUSTAR GUTTER CORNER - INTERIOR CORNER - 90° - BOX SHAPE

Nominal size	250	333	400
● Anthracite	820051	820071	820081
● Light grey	820053	820073	820083
○ White	820054	820074	820084
● Testa di Moro	820052	820072	820082
● Moss green	820055	820075	820085
● Brick red	820056	820076	820086
● Oxide red	820057	820077	820087
● RAL - custom colour	820050	820070	820080

Soldered



GRÖMO ALUSTAR PLUG-IN GUTTER END CAP HALF ROUND LEFT

Nominal size	250	280	333	400
● Anthracite	820401	820411	820421	820431
● Light grey	820403 *	820413 *	820423 *	820433 *
● Testa di Moro	820402 *	820412 *	820422 *	820432 *
● RAL - custom colour	820400	820410	820420	820430

With mortise groove for easy installation

* Discontinued item, available only while stocks last



GRÖMO ALUSTAR PLUG-IN GUTTER END CAP HALF ROUND RIGHT

Nominal size	250	280	333	400
● Anthracite	820441	820451	820461	820471
● Light grey	820443 *	820453 *	820463 *	820473 *
● Testa di Moro	820442 *	820452 *	820462 *	820472 *
● RAL - custom colour	820440	820450	820460	820470

With mortise groove for easy installation

* Discontinued item, available only while stocks last



GRÖMO ALUSTAR GUTTER END CAP HALF ROUND UNIVERSAL - HIGH

Nominal size	250	280	333	400
● Light grey	820363	820373	820383	820393
○ White	820404	820414	820424	820434
● Testa di Moro	820362	820372	820382	820392
● Moss green	820405	820415	820425	820435
● Brick red	820406	820416	820426	820436
● Oxide red	820407	820417	820427	820437

To hems



GRÖMO ALUSTAR GUTTER END CAP BOX SHAPE UNIVERSAL

Nominal size	250	333	400
● Anthracite	821801	821811	821821
● Light grey	821803	821813	821823
○ White	821804	821814	821824
● Testa di Moro	821802	821812	821822
● Moss green	821805	821815	821825
● Brick red	821806	821816	821826
● Oxide red	821807	821817	821827
● RAL - custom colour	821800	821810	821820

To hems



GRÖMO ALUSTAR GUTTER EXPANDER - WITH COVER - HALF ROUND

Nominal size	280	333	400
● Anthracite	821211	821221	821231
● Light grey	821213	821223	821233
○ White	821214	821224	821234
● Testa di Moro	821212	821222	821232
● Moss green	821215	821225	821235
● Brick red	821216	821226	821236
● Oxide red	821217	821227	821237
● RAL - custom colour	821210	821220	821230

Vulcanised on both sides



GRÖMO ALUSTAR GUTTER EXPANDER - WITH COVER - BOX SHAPE

Nominal size	333	400
● Anthracite	821251	821261
● Light grey	821253	821263
○ White	821254	821264
● Testa di Moro	821252	821262
● Moss green	821255	821265
● Brick red	821256	821266
● Oxide red	821257	821267
● RAL - custom colour	821250	821260

Vulcanised on both sides



LEAF SIEVE

Nominal size	60	75-80	100	120
● Galvanised steel	501003			
● Stainless steel		540004	540006	540007



GRÖMO ALUSTAR PLUG-IN GUTTER OUTLET OVAL - HALF ROUND GUTTER

Nominal size	250 60	250 80	280 80	280 100	333 80	333 100	333 120	400 100	400 120
● Anthracite	820201	820211	820221	820231	820241	820251	820261	820281	820271
● Light grey	820203	820213	820223	820233	820243	820253	820263	820283	820273
○ White		820214	820224	820234	820244	820254	820264	820284	820274
● Testa di Moro	820202	820212	820222	820232	820242	820252	820262	820282	820272
● Moss green		820215	820225	820235	820245	820255	820265		820275
● Brick red		820216	820226	820236	820246	820256	820266		820276
● Oxide red		820217	820227	820237	820247	820257	820267		820277
● RAL - custom colour	820200	820210	820220	820230	820240	820250	820260	820280	820270

Butt welded, with spring clip for easy mounting



GRÖMO ALUSTAR PLUG-IN GUTTER OUTLET - BOX SHAPE GUTTER - BOX SHAPE PIPE

Nominal size	250 80x80	333 80x80	333 100x100
● Anthracite	820331	820341	820351
● Light grey	820333	820343	820353
● Testa di Moro	820332	820342	820352
● RAL - custom colour	820330	820340	820350

Soldered



GRÖMO ALUSTAR PLUG-IN GUTTER OUTLET - BOX SHAPE GUTTER - ROUND PIPE

Nominal size	250 80	333 100	400 120
● Anthracite	820301	820311	820321
● Light grey	820303	820313	820323
○ White	820304	820314	820324
● Testa di Moro	820302	820312	820322
● Moss green	820305	820315	820325
● Brick red	820306	820316	820326
● Oxide red	820307	820317	820327
● RAL - custom colour	820300	820310	820320

Roll seam welded, with loop for hooking in



GRÖMO ALUSTAR OUTLET SPOUT BOX-SHAPED

Nominal size	80
--------------	----

☐ White	820544
-----------------------------	--------



GRÖMO ALUSTAR FLAT ROOF HOPPER WITHOUT INFLOW

Nominal size	100
--------------	-----

☒ Anthracite	820861
☐ Light grey	820863
☐ Testa di Moro	820862
☐ RAL - custom colour	820860

Height: 390 mm, width: 242 mm, depth: 150 mm



GRÖMO ALUSTAR FLAT ROOF HOPPER, CUBIC, WITHOUT INFLOW

Nominal size	80	100
--------------	----	-----

☒ Anthracite	820901	820871
☐ Light grey	820903	820873
☐ White	820904	820874
☐ Testa di Moro	820902	820872
☐ RAL - custom colour	820900	820870

Height: 200 mm, width: 200 mm, depth: 200 mm



GRÖMO ALUSTAR FLAT ROOF HOPPER, CUBIC, WITHOUT INFLOW

Nominal size	80	100
--------------	----	-----

☒ Anthracite	820881	820891
☐ Light grey	820883	820893
☐ White	820884	
☐ Testa di Moro	820882	820892
☐ RAL - custom colour	820880	820890

Height: 185 mm, width: 180 mm, depth: 160 mm



GRÖMO ALUSTAR DESIGN FLAT-ROOF HOPPER

Nominal size	80	100	120
● Anthracite	820911	820921	820931
● RAL - custom colour	820910	820920	820930

Nominal size 76-80: Height: 210 mm, width: 210 mm, depth: 140 mm
 Nominal size 87 -100: Height: 300 mm, width: 300 mm, depth: 160 mm
 Nominal size 120: Height: 360 mm, width: 360 mm, depth: 180 mm



GRÖMO ALUSTAR HOPPER, CUBIC ECCENTRIC

Nominal size	80	100	120
● Anthracite	820801	820811	820821
● Light grey	820803	820813	820823
● White	820804	820814	820824
● Testa di Moro	820802	820812	820822
● Moss green	820805	820815	820825
● Brick red	820806	820816	820826
● Oxide red	820807	820817	820827
● RAL - custom colour	820800	820810	820820

Height: 283 mm, width: 240 mm, depth: 240 mm



GRÖMO ALUSTAR HOPPER, CUBIC ECCENTRIC WITH OVERFLOW PIPE

Nominal size	80	100	120
● Anthracite	820831	820841	820851
● Light grey	820833	820843	820853
● Testa di Moro	820832	820842	820852
● RAL - custom colour	820830	820840	820850

Height: 283 mm, width: 240 mm, depth: 240 mm



TPE SEAL

Nominal size	
○ Other	940945

Seal 3 m length, for installation in hoppers, for safe drainage of rainwater in attic seals



GRÖMO ALUSTAR PIPE ELBOW 40°

Nominal size	60	80	100	120
● Anthracite	820601 ²	820611 ¹	820621 ¹	820631 ¹
● Light grey	820603 ²	820613 ¹	820623 ¹	820633 ¹
○ White		820614 ¹	820624 ¹	820634 ¹
● Testa di Moro	820602 ²	820612 ¹	820622 ¹	820632 ¹
● Moss green		820615 ¹	820625 ¹	820635 ¹
● Brick red		820616 ¹	820626 ¹	820636 ¹
● Oxide red		820617 ¹	820627 ¹	820637 ¹
● RAL - custom colour	820600 ²	820610 ¹	820620 ¹	820630 ¹

¹ Butt-welded with indent

² Roll seam welded, without indent



GRÖMO ALUSTAR PIPE ELBOW 72°

Nominal size	60	80	100	120
● Anthracite	820501 ²	820511 ¹	820521 ¹	820531 ¹
● Light grey	820503 ²	820513 ¹	820523 ¹	820533 ¹
○ White		820514 ¹	820524 ¹	820534 ¹
● Testa di Moro	820502 ²	820512 ¹	820522 ¹	820532 ¹
● Moss green		820515 ¹	820525 ¹	820535 ¹
● Brick red		820516 ¹	820526 ¹	820536 ¹
● Oxide red		820517 ¹	820527 ¹	820537 ¹
● RAL - custom colour	820500 ²	820510 ¹	820520 ¹	820530 ¹

¹ Butt-welded with indent

² Roll seam welded, without indent



GRÖMO ALUSTAR PIPE ELBOW 85°

Nominal size	60	80	100
● Anthracite	820561 ²	820571 ¹	820581 ¹
● Light grey	820563 ²	820573 ¹	820583 ¹
○ White		820574 ¹	820584 ¹
● Testa di Moro	820562 ²	820572 ¹	820582 ¹
● Moss green		820575 ¹	820585 ¹
● Brick red		820576 ¹	820586 ¹
● Oxide red		820577 ¹	820587 ¹
● RAL - custom colour	820560 ²	820570 ¹	820580 ¹

¹ Butt-welded with indent

² Roll seam welded, without indent



GRÖMO ALUSTAR SQUARE PIPE ELBOW 72°

Nominal size	80x80	100x100
● Anthracite	820591	820551
● Light grey	820593	820553
● Testa di Moro	820592	820552
● RAL - custom colour	820590	820550

Material thickness 0.6 mm due to production



GRÖMO ALUSTAR SWAN NECK

Nominal size	80	100	120
● Anthracite	820651	820661	820671
● Light grey	820653	820663	820673
○ White	820654	820664	820674
● Testa di Moro	820652	820662	820672
● Moss green	820655	820665	820675
● Brick red	820656	820666	820676
● Oxide red	820657	820667	820677
● RAL - custom colour	820650	820660	820670



GRÖMO ALUSTAR RAINWATER DOWNPIPE, ROUND 3 M

Nominal size	60	80	100	120
● Anthracite	821401 ¹	821411 ¹	821421 ¹	821431 ¹
● Light grey	821403 ¹	821413 ¹	821423 ¹	821433 ¹
○ White		821414 ¹	821424 ¹	821434 ¹
● Testa di Moro	821402 ¹	821412 ¹	821422 ¹	821432 ¹
● Moss green		821415 ¹	821425 ¹	821435 ¹
● Brick red		821416 ¹	821426 ¹	821436 ¹
● Oxide red		821417 ¹	821427 ¹	821437 ¹
● RAL - custom colour	821400 ²	821410 ²	821420 ²	821430 ²

¹ With protective film

² Without protective film



GRÖMO ALUSTAR RAINWATER DOWNPIPE, BOX SHAPE 2 M

Nominal size	80x80	100x100
● Anthracite	821491	821441
● Light grey	821493	821443
● Testa di Moro	821492	821442
● RAL - custom colour	821490	821440

Without protective film



GRÖMO ALUSTAR RAINWATER PIPE FLAP WITH STAINLESS STEEL SIEVE

Nominal size	80	100	120
● Anthracite	820731	820741	820751
● Light grey	820733	820743	820753
○ White	820734	820744	820754
● Testa di Moro	820732	820742	820752
● Moss green	820735	820745	820755
● Brick red	820736	820746	820756
● Oxide red	820737	820747	820757
● RAL - custom colour	820730	820740	820750

Regularly clean sieve and remove in winter due to risk of frost!



GRÖMO ALUSTAR DESIGN WATER COLLECTOR



Nominal size	80	100
● Anthracite	820781	820771
● Light grey		820773
● Testa di Moro		820772
● RAL - custom colour	820780	820770

Incl. hose set, consisting of 1" hose with a length of 33 cm and barrel connector



SPARE PART: HOSE WITH CONNECTORS FOR DESIGN WATER COLLECTOR

Nominal size	80-100
○ Other	980943

SPARE PART: SEALING CAP

Nominal size	1"
○ Other	980944



GRÖMO ALUSTAR WATER COLLECTOR

Nominal size	80	100	120
● Anthracite	820701	820711	820721
● Light grey	820703	820713	820723
○ White	820704	820714	820724
● Testa di Moro	820702	820712	820722
● Moss green	820705	820715	820725
● Brick red	820706	820716	820726
● Oxide red	820707	820717	820727
● RAL - custom colour	820700	820710	820720

Including hose set consisting of 1" hose (for NG 76-100: Length 33 cm / for NG 120: Length 24 cm) and barrel connector

SPARE PART: HOSE WITH CONNECTORS

Nominal size	76-120
○ Other	980942

SPARE PART: SEALING CAP

Nominal size	76-120
○ Other	980939

Suitable for aluminium water collectors



HOSE FOR WATER COLLECTOR

Nominal size	1"
○ Other	500948

In a roll with a length of 5 metres. Suitable for all water collectors with 1" hose



GRÖMO ALUSTAR FLAT-ROOF BRANCH

Nominal size	75 80	75 100	110 100	110 120
● Anthracite	821121	821131	821151	821141
● Light grey	821123	821133	821153	821143
● Testa di Moro	821122	821132	821152	821142
● RAL - custom colour	821120	821130	821150	821140

Includes pre-mounted inflow seal



GRÖMO ALUSTAR FLAT-ROOF BRANCH BOX-SHAPE

Nominal size	75 80x80	75 100x100	110 100x100
● Anthracite	821964	821971	821981
● Light grey	821966	821973	821983
● Testa di Moro	821965	821972	821982
● RAL - custom colour	821963	821970	821980

Includes pre-mounted inflow seal



GRÖMO ALUSTAR BALCONY BRANCH 87.5° BOX-SHAPE

Nominal size	75 80x80	75 100x100
● Anthracite	821975	821960
● Light grey	821977	821962
● Testa di Moro	821976	821961
● RAL - custom colour	821974	821959

Includes pre-mounted inflow seal



GRÖMO ALUSTAR DOWNPIPE BRANCH 72°

Nominal size	80 60	80 80	100 60	100 80	100 100	120 80	120 100	120 120
● Anthracite	821551	821501	821511	821521	821531	821561	821571	821581
● Light grey	821553	821503	821513	821523	821533	821563	821573	821583
○ White		821504		821524	821534	821564	821574	821584
● Testa di Moro	821552	821502	821512	821522	821532	821562	821572	821582
● Moss green		821505		821525	821535	821565	821575	821585
● Brick red		821506		821526	821536	821566	821576	821586
● Oxide red		821507		821527	821537	821567	821577	821587
● RAL - custom colour	821550	821500	821510	821520	821530	821560	821570	821580

Also available with other bracket, diameter, double branch, or Y-branch upon request



GRÖMO ALUSTAR STANDPIPE CAP

Nominal size	80 116	100 116	100 150	120 150
● Anthracite	821451	821461	821471	821481
● Light grey	821453	821463	821473	821483
○ White	821454	821464	821474	821484
● Testa di Moro	821452	821462	821472	821482
● Moss green	821455	821465	821475	821485
● Brick red	821456	821466	821476	821486
● Oxide red	821457	821467	821477	821487
● RAL - custom colour	821450	821460	821470	821480



GRÖMO ALUSTAR SLIDING SLEEVE

Nominal size	80	100
● Anthracite	821761	821771
● Light grey	821763	821773
● Testa di Moro	821762	821772
● RAL - custom colour	821760	821770



GRÖMO ALUSTAR CONNECTION SLEEVE (PIPE CONNECTOR)

Nominal size	80	100	120
● Anthracite	821161	821171	821181
● Light grey	821163	821173	821183
○ White	821164	821174	821184
● Testa di Moro	821162	821172	821182
● Moss green	821165	821175	821185
● Brick red	821166	821176	821186
● Oxide red	821167	821177	821187
● RAL - custom colour	821160	821170	821180



GRÖMO ALUSTAR CONNECTION SLEEVE WITH SEAL

Nominal size	75 80	110 100
● Anthracite	821195	821196
● RAL - custom colour	821197	821198

Includes pre-mounted inflow seal

SPARE PART: LIP SEAL RING

Nominal size	75
○ Other	980949

Suitable for all flat roof branches except UGINOX Patina K41



GRÖMO ALUSTAR DESIGN DOWNPIPE BRACKET WITH THREADED NUT M10



Nominal size	100
● Anthracite	821941
● Light grey	821943
○ White	821944
● Testa di Moro	821942
● RAL - custom colour	821940

SPARE PART: SCREW WITH LOCK WASHER

Nominal size	100
● Stainless steel	980330



GRÖMO ALUSTAR DOWNPIPE BRACKET WITH THREADED NUT M10

Nominal size	60	80	100	120
● Anthracite	821831	821841	821851	821861
● Light grey	821833	821843	821853	821863
○ White		821844	821854	821864
● Testa di Moro	821832	821842	821852	821862
● Moss green		821845	821855	821865
● Brick red		821846	821856	821866
● Oxide red		821847	821857	821867
● RAL - custom colour	821830	821840	821850	821860

For connecting to SPI dowel, hanger bolt, or thermo stop



GRÖMO ALUSTAR DOWNPIPE BRACKET, SQUARE, WITH THREADED NUT M10

Nominal size	80x80	100x100
● Anthracite	821781 ¹	821791 ²
● Light grey	821783 ¹	821793 ²
● Testa di Moro	821782 ¹	821792 ²
● RAL - custom colour	821780 ¹	821790 ²

¹ For connecting to SPI dowel, hanger bolt, or thermo stop. Threaded nut, galvanised

² Made from galvanised steel. For connecting to SPI dowel, hanger bolt, or thermo stop. Threaded nut, galvanised. Also suitable for fixing the square standpipe



HANGER BOLT M10

Nominal size	M10 100	M10 140	M10 200	M10 250	M10 290
● Stainless steel	540313	540314	540315	540316	540317

With spanner flat



BASEPLATE WITH THREADED NUT M8/M10

Nominal size	M8 M10
● Stainless steel	540219



THERMO STOP

Nominal size	M10
● Stainless steel	540211

Prevents thermal bridge between hanger bolt and pipe bracket



STG PIPE BRACKET SUPPORT

Nominal size	80-120	120-160	160-200	200-240	240-320
● Stainless steel	540240 ¹	540241 ¹	540242 ¹	540243 ¹	540244 ²

¹ Mounting solution for pipe brackets with thermal insulation systems. In Austria, obtainable from Likunet company in Gänserndorf

² Mounting solution for pipe brackets with thermal insulation systems, 2 pieces. In Austria, obtainable from Likunet company in Gänserndorf



SPI PIPE BRACKET PLUG

Nominal size	M10 130	M10 260	M10 330
● Stainless steel	940236	940237	940238

Can be used with building height up to 8 m. If building height is over 8 m, follow the accepted rules of technology of the plumber/roofer trade!



DOWNPIPE STOPGAP

Nominal size	60-120 8	60-120 100
☒ Other	940910 ¹	940920 ²

¹ Roll length 8 m. Compatible with downpipe diameter 120 mm

² Roll length 100 m. Compatible with downpipe diameter 120 mm



GRÖMO ALUSTAR RAINWATER STANDPIPE 1.0 M - WITH CLEANING LID

Nominal size	80	100	120
● Anthracite	821361	821371	821381
● Light grey	821363	821373	821383
○ White	821364	821374	821384
● Testa di Moro	821362	821372	821382
● Moss green	821365	821375	821385
● Brick red	821366	821376	821386
● Oxide red	821367	821377	821387
● RAL - custom colour	821360	821370	821380

Made from galvanised steel. Fits directly on all common sewage pipes. No additional connectors necessary!



GRÖMO ALUSTAR RAINWATER STANDPIPE SQUARE 1.0 M - WITH CLEANING LID

Nominal size	100x100
● Anthracite	821391
● Light grey	821393
● Testa di Moro	821392
● RAL - custom colour	821390

Made from galvanised steel. Without seal element, with preformed connector, outer diameter 102 mm

SPARE PART: CLAMP CAP FOR HEXAGON NUT M8

Nominal size	
○ Other	980575



GRÖMO ALUSTAR DOWNPIPE TO STANDPIPE ADAPTER BOX SHAPE TO ROUND

Nominal size	80 80	100 100
● Anthracite	821631	821641
● Light grey	821633	821643
● Testa di Moro	821632	821642
● RAL - custom colour	821630	821640

On NG 100, made of titanium zinc



GRÖMO ALUSTAR RAINWATER STANDPIPE BRACKET WITH THREADED NUT M10

Nominal size	80	100	120
● Anthracite	821881	821891	821901
● Light grey	821883	821893	821903
○ White	821884	821894	821904
● Testa di Moro	821882	821892	821902
● Moss green	821885	821895	821905
● Brick red	821886	821896	821906
● Oxide red	821887	821897	821907
● RAL - custom colour	821880	821890	821900

Made from galvanised steel. Threaded nut, galvanised. For connecting to SPI dowel, hanger bolt, or thermo stop



DUOFALZ SHEET METAL STRIP 60 KG

Nominal size	0,7x500	0,7x650	0,7x1000
● Anthracite	810081 ²	810091 ²	810101 ²
● Jet black	810088 ²	810098 ²	810108 ²
● Dark gray	821089 ²	821099 ²	821109 ²
● Grey aluminium			821112 ¹
● Light grey	810083 ²	810093 ²	810103 ²
● Silver metallic	821090 ²	821100 ²	821110 ²
● White	810084 ²	810094 ²	810104 ²
● Testa di Moro	810082 ²	810092 ²	810102 ²
● Moss green	810085 ²	810095 ²	810105 ²
● Brick red	810086 ²	810096 ²	810106 ²
● Oxide red	810087 ²	810097 ²	810107 ²

¹ Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front and back side: TX coating. On request also available in other roll sizes (> 15 m). Make sure that the batches are the same and that they are laid in the same direction.

² Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front side: TX coating, rear side: Same colour SX coating. On request also available in other roll sizes (> 15 m) and in stucco. Pay attention to batch uniformity and laying direction



DUOFALZ STUCCO SHEET METAL STRIP 60 KG

Nominal size	0,7x500	0,7x650
● Anthracite	821591	821691

Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front side: TX coating, rear side: Same colour SX coating. On request also available in other roll sizes (> 15 m) and in stucco. Pay attention to batch uniformity and laying direction



DUOFALZ SHEET METAL STRIP 500 KG

Nominal size	0,7x500	0,7x650	0,7x1000
● Anthracite	810191 ²	810271 ²	810281 ²
● Jet black	821194 ²	810278 ²	810288 ²
● Dark gray		821279 ²	821289 ²
● Grey aluminium			821287 ¹
● Light grey		810273 ²	810283 ²
● Silver metallic		821280 ²	821290 ²
● Testa di Moro		810272 ²	810282 ²

¹ Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front and back side: TX coating. On request also available in other roll sizes (> 15 m). Make sure that the batches are the same and that they are laid in the same direction.

² Coloured aluminium strip in seam quality, material quality: EN AW 3005 H41, can be used on both sides, front side: TX coating, rear side: Same colour SX coating. On request also available in other roll sizes (> 15 m) and in stucco. Pay attention to batch uniformity and laying direction



DUOFALZ METAL SHEET

Nominal size	0,7x1000x2000	0,7x1000x3000
● Anthracite	810291 ²	810951 ¹
● Jet black	810298 ²	810958 ¹
● Dark gray	821299 ²	
● Light grey	810293 ²	
○ White	810294 ²	810954 ¹
● Testa di Moro	810292 ²	
● Moss green	810295 ²	
● Brick red	810296 ²	
● Oxide red	810297 ²	

¹ Sheet size: 0.7 x 1000 x 3000 mm. With protective film on the SX side, One panel corresponds to approx. 6.08 kg, Material grade: EN AW 3005 H41 (fold quality Can be used on both sides. FRONT: TX coating, rear side: Same colour SX coating. Other colours on request. Make sure that the batches are the same and that they are laid in the same direction.

² Sheet size: 0.7 x 1000 x 2000 mm. With protective film on the SX side, One panel corresponds to approx. 4.05 kg, Material grade: EN AW 3005 H41 (fold quality Can be used on both sides. FRONT: TX coating, rear side: Same colour SX coating. Moss green and oxide red by request Make sure that the batches are the same and that they are laid in the same direction.



DUOFALZ STUCCO METAL SHEET

NEW

Nominal size	0,7x1000x2000
● Anthracite	821595

Panel size: 0.7 x 1000 x 2000 mm. Without protective film. One panel weighs approx. 3.84 kg. Material grade: EN AW 3005 H41. Can be used on one side (TX side). Back side: SX coating in matching color. Ensure batch consistency and correct installation direction.



GRÖMO ALUSTAR SHEET METAL STRIP, PERFORATED

Nominal size	0,7x1000
● Anthracite / Testa di Moro	810111
● Light grey	810113 *
● Aluminium beschichtet Hellgrau-Moosgrün	810115
○ White	810114
● Brick red/oxide red	810116

Roll size approx. 19 kg, 1 m² equal to 1.13 kg

* Discontinued item, available only while stocks last



FIXED CLIPS

Nominal size	25	32
● Stainless steel	830930	830931



SLIDING CLIPS

Nominal size	25	32
● Stainless steel	830932	830933



LONG SLIDING CLIPS

Nominal size	25	32
● Stainless steel	830934	830935



FIXED U CLIPS

Nominal size	75
● Stainless steel	830936



SLIDING U CLIPS

Nominal size	78
● Stainless steel	830937



GRÖMO ALUSTAR SPECIAL ADHESIVE (INNOTEC ADHESEAL BLACK)

Nominal size

☒ Other	830938
--	--------

Cartridge (290 ml), observe processing guidelines and safety data sheet



GRÖMO ALUSTAR SPECIAL CLEANER (INNOTEC REPAPLAST CLEANER ANTISTATIC)

Nominal size

☒ Other	830939
--	--------

Aerosol can (500 ml), observe processing guidelines and safety data sheet



GRÖMO ALUSTAR PRIMER (INNOTEC REPAPLAST PRIMER NEW FORMULA)

Nominal size

☒ Other	830941
--	--------

Aerosol can (500 ml), observe processing guidelines and safety data sheet



SEAM GEL

Nominal size

300

☒ Other	830940
--	--------

Cartridge 300 ml, transparent, UV-resistant, observe processing guidelines and safety data sheet. For approx. 25-30 m double seam



SEALING TAPE (BEKO)

Nominal size	1-4
--------------	-----

Other	940938
-------	--------

Roll 13 metres long, for sealing double standing seams with joints 1-4 mm wide



GRÖMO ALU STAR TOUCH-UP PAINT

Nominal size	
--------------	--

Anthracite	830911
Light grey	830913
White	830914
Testa di Moro	830912
Moss green	830915
Brick red	830916
Oxide red	830917

Can (1 kg). Observe processing guidelines and safety data sheet.



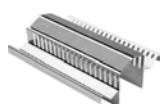
GRÖMO ALU STAR TOUCH-UP STICK

NEW

Nominal size	
--------------	--

Anthracite	830921
Light grey	830923
White	830924
Testa di Moro	830922

Contents 8 ml. Observe processing guidelines and safety data sheet.



VENTILATOR RIDGE UNIT

Nominal size	
--------------	--

Stainless steel	540035
-----------------	--------

Length 1905 mm

GENERAL INFORMATION

MATERIALS AND COATING

The base material of our GRÖMO ALUSTAR product line is aluminium. The majority of the products are manufactured from polished aluminium alloys and then powder-coated piece by piece. In contrast, gutters and downpipes as well as the DUOFALZ coloured strips are produced from coil-coated aluminium alloys. The GRÖMO ALUSTAR range is rounded off by accessory products made from other materials (e.g. stainless steel, galvanised steel), which are either without any further surface treatment or powder-coated. In our product catalogue, the material of these accessory products is indicated either directly next to the product material or in the footer.

DIFFERENCES IN COLOUR

Due to the different coating processes between piece- and coil-coated products, there may be slight differences in colour and gloss level in appearance. The coating systems can also exhibit different weathering behaviour in the long term.

The RAL values given in our documents are approximate values which may differ from the original GRÖMO ALUSTAR colour and under certain circumstances may not reflect someone's subjective view of the colour. For exact colour determinations, original samples or our colour sample fan should therefore be consulted.

CUSTOM COLOURS

If your desired colour is not included in our standard colours, you can also get GRÖMO ALUSTAR as a custom-made product in your very own desired colour. Please note that powder coating is only possible for products with a maximum length of 3m.

Depending on the quantity and custom colour shade, there may be flat-rate surcharges and longer delivery times. For further information is available from your GRÖMO contact.





OUTLETS

DRAINAGE CAPACITY OF THE GRÖMO PLUG-IN GUTTER OUTLET*

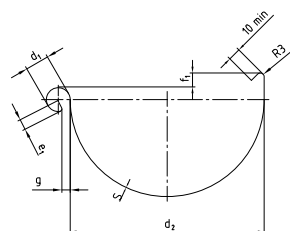
Construction method	Nominal size	Drainage capacity Outlet [l/s]	Drainage capacity Pipe [l/s]
Oval	250/60	3.0	2.7
	250/80	2.9	5.9
	280/80	4.1	5.9
	280/100	4.1	10.7
	333/80	7.4	5.9
	333/100	7.4	10.7
	333/120	7.2	17.4
	400/120	14.5	17.4
Box shape	250/80	2.4	5.9
	333/100	6.0	10.7
	400/120	10.8	17.4
	250/80x80	2.4	8.15
	333/80x80	5.9	8.15
	333/100x100	5.9	14.78

* Drainage table for GRÖMO outlets - DIN EN 12056 - Part 3

The measurement results were determined by the Technical University of Munich. It has been confirmed that GRÖMO outlets not only fulfil the standard, but exceed it. To guarantee these results, use the gutter section template developed by GRÖMO. You can download these to print out yourself at www.groemo.de or order them free of charge as templates from service@groemo.de.

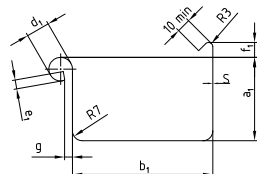
ROOF GUTTERS

GUTTER, HALF ROUND



Nominal size / Cutting width	d ₁ [mm]	d ₂ [mm]	e ₁ [mm]	f ₁ [mm]	g [mm]
+1/-2 mm	± 1 mm	+2/-0 mm	± 1 mm	min. [mm]	± 1 mm
250	18	105	7	10	5
280	18	127	7	11	6
333	20	153	9	11	6
400	22	192	9	11	6

GUTTER, BOX SHAPE



Nominal size / Cutting width	a ₁ [mm]	b ₁ [mm]	d ₁ [mm]	e ₁ [mm]	f ₁ [mm]	g [mm]
+1/-2 mm	± 1 mm	+0/-1 mm	± 1 mm	± 1 mm	min. [mm]	± 1 mm
250	55	85	18	7	10	5
333	75	120	20	9	10	6
400	90	150	22	9	10	6

In order to ensure a perfect fit and compatibility with existing gutters and accessories, it is necessary to adhere to the standard shapes and dimensions that go beyond the specifications of DIN EN 612.

MATERIAL THICKNESS (S), HALF ROUND AND BOX SHAPE GUTTER

Nominal size / cutting width	● Aluminium [mm]
250	0.70
280	0.70 ¹
333	0.70
400	0.70

¹ Material thickness applies to half round gutter, material thickness for box-shaped gutter not standardised

MOTION COMPENSATION FOR GUTTERS

The following constructions or components can be used to compensate for movement in gutters:

- Sliding joints at the highest points (high-point sliding joint)
- Rubber elements at every point
- Water hoppers or plug-in gutter outlets at the drain point

For suspended aluminium gutters up to 500 mm in size, expansion compensation must be installed every 12 m.

For outside corners or the start of the gutter, half the standard value applies: max. 7.5 m.

For inside corners, a quarter of the standard value applies: max. 3.75 m. Gutter corners must be designed as fixed points.

GUTTER HOOKS AND FASCIA BRACKETS

GUTTER HOOK ROOF GUTTER, HALF ROUND

Nominal size	l [mm]
250 / 23 x 7	323
280 / 28 x 7	339.5
280 long / 28 x 7	439.5
333 / 28 x 7	362
333 / 30 x 5	362
333 long / 28 x 7	462
400 / 30 x 7	431.5

GUTTER HOOK ROOF GUTTER, BOX SHAPE

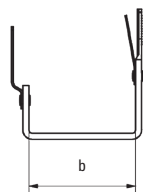
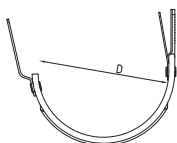
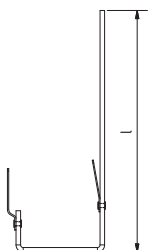
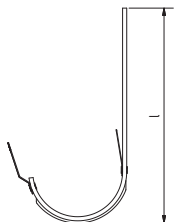
Nominal size	l [mm]
250 / 23 x 7	329.5
333 / 28 x 7	364
400 / 30 x 7	420.5

FASCIA BRACKET, HALF ROUND

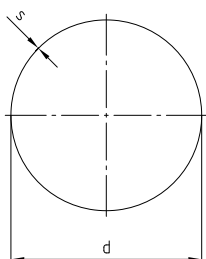
Nominal size	Ø D [mm]
250 / 23 x 7	105
280 / 28 x 7	127
333 / 28 x 7	153

FASCIA BRACKET, BOX SHAPE

Nominal size	b [mm]
250 / 28 x 7	87
333 / 28 x 7	123



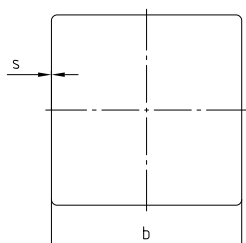
RAINWATER DOWNPIPE



MATERIAL THICKNESS (S), RAINWATER DOWNPIPES ROUND

Nominal size d *	● Aluminium [mm]
60	0.70
80	0.70
100	0.70
120	0.70

* d = inner pipe diameter, tolerance ± 1 mm



MATERIAL THICKNESS (S), RAINWATER DOWNPIPES BOX SHAPE

Nominal size w *	● Aluminium [mm]
80 x 80	0.70
100 x 100	0.70

* w = inner tube width, tolerance ± 1 mm

In order to ensure a perfect fit and compatibility with existing rainwater downpipes and accessories, it is necessary to adhere to the standard shapes and dimensions that go beyond the specifications of DIN EN 612.

CONNECTIONS (ACCORDING TO DIN EN 612)

Each manufactured length of rainwater downpipe must be either

- provided with a wide end (female end) and a narrow end (male end) so that the female and male ends of two manufactured lengths can be plugged together to form a plug-in connection with an overlap of at least 50 mm, or
- provided with equally wide ends for connection with loose sleeves.

ACCESSORIES (ACCORDING TO PLUMBING TRADE REGULATIONS ZVSHK)

According to DIN EN 612, accessories must be manufactured in such a way that they fit the corresponding downpipes and can be plugged in approx. 30 mm.

SHEET METAL STRIPS

LENGTH FOR ALUMINIUM STRIPS DEPENDING ON MATERIAL THICKNESS AND STRIP WIDTH

Width [mm]	Sheet thickness [mm]	1 kg	30 kg	60 kg	120 kg	250 kg	500 kg
500	0.7	approx. 1.05 m	approx. 32 m	approx. 64 m	approx. 127 m	approx. 265 m	approx. 530 m
650	0.7	approx. 0.81 m	approx. 24 m	approx. 49 m	approx. 97 m	approx. 203 m	approx. 405 m
1000	0.7	approx. 0.53 m	approx. 16 m	approx. 32 m	approx. 64 m	approx. 133 m	approx. 265 m

COIL DIMENSIONS

Coil weight [kg]	Cardboard core	Coil inner diameter [mm]	Coil outer diameter [mm]
60	-	approx. 340	approx. 420
500	✱	approx. 500	approx. 840

ADHESIVE BONDS

ADHESIVE BONDS WITH ONE CARTRIDGE (290 ml)

Gutter shape	Nominal size	Connections
Half round	250	approx. 22
	280	approx. 19
	333	approx. 15
	400	approx. 12
Box shape	250	approx. 22
	333	approx. 15
	400	approx. 12

One cartridge is sufficient for approx. 4 metres of adhesive bond

MATERIALS

ASSEMBLY OF METALS

Metal	 Zinc	 Copper	 Galvanised steel	 Stainless steel	 Aluminium	 Lead
 Aluminium		–				

 = permissible / – = not permitted

METAL WEIGHT BY THICKNESS

Metal	Density [kg/dm³]	0.40 mm [kg/m²]	0.50 mm [kg/m²]	0.60 mm [kg/m²]	0.65 mm [kg/m²]	0.70 mm [kg/m²]	0.80 mm [kg/m²]	1.00 mm [kg/m²]
 Zinc	7.20	–	–	–	4.68	5.04	5.76	7.20
 Copper	8.93	–	–	5.35	5.80	6.25	7.14	8.93
 Galvanised steel	7.86	–	–	4.71	5.10	5.50	6.28	7.86
 Stainless steel	7.90	–	3.95	4.74	5.13	5.53	6.32	7.90
 UGINOX Patina K41	7.70	3.08	3.85	–	–	–	–	–
 Aluminium	2.70	–	–	–	–	1.89	2.16	2.70

THERMAL EXPANSION OF METALS

Metal	Coefficient of thermal expansion α [in 10 ⁻⁶ /K]	Change in length per metre at 100 K [mm]	Change in length per 12 m at 100 K [mm]
 Zinc	22	2.2	26.4
 Copper	17	1.7	20.4
 Galvanised steel	12	1.2	14.4
 Stainless steel	16	1.6	19.2
 UGINOX Patina K41	16	1.1	19.2
 Aluminium	24	2.4	28.8

GENERAL TERMS AND CONDITIONS OF SALE OF GRÖMO GMBH & CO. KG

Valid since 01.01.2026

1. Scope, general points

1.1. Our General Terms and Conditions for sales (GTC) apply to all our business relationships with our customers where these are enterprises (§14 of the German Civil Code - BGB), legal entities of public law institutions or special asset funds under public law within the meaning of § 310 Chapter 1 BGB. They apply to the sale of movable items (goods) by us, regardless if the goods were manufactured by ourselves or procured from suppliers.

1.2. Our GTC apply exclusively to all business transactions between our customers and ourselves. We will not recognise General Terms and Conditions of the customer which contradict or deviate from our GTC unless we have expressly agreed, at least in text form, to their validity. Our GTC will also apply if we should perform without reservation for the customer even though we are aware of General Terms and Conditions of the customer which contradict or deviate from our GTC.

1.3. Unless otherwise agreed, our GTC in the version in force at the time of the order will apply as a framework agreement for future equivalent contracts without any requirement on our part to refer to them in every individual case.

1.4. Individual agreements made with the customer in individual cases (including collateral agreements, supplements and amendments) will in any case take precedence over these GTC. Subject to proof to the contrary, the content of such agreements will be governed by a contract, at least in text form, or by our confirmation, which must at least be in text form.

2. Conclusion of contract, trademarks, logos

2.1. Our offers are subject to confirmation and non-binding. This shall also apply if we have provided the customer with catalogues, technical documentation (e.g. drawings, plans, calculations, costings) and product descriptions or documents in any form whatsoever to which we reserve ownership rights and copyrights.

2.2. The order of the goods by the customer represents a binding contractual offer to which the customer is bound for 3 calendar weeks. The purchase contract will become effective only after we have sent an order confirmation in text form. The shipping of the goods or dispatch of the invoice will have the same legal effect in this regard as the dispatch of the order confirmation.

2.3. The use of our brand names, logos or photos and representations of Grömo products on the Internet or in other electronic or digital communication networks or in the form of television or radio transmissions or in print media requires an additional agreement with us concerning such use, at least in text form.

3. Prices, price adjustment, minimum order value

3.1. The prices in the current price list apply. The previous price lists will cease to apply with the publication of a new price list. Should we make an offer pursuant to section 2.1 the prices shown therein will apply.

3.2. If more than 4 months should elapse between the conclusion of the contract and delivery, and the market prices for raw materials, particularly zinc, copper and aluminium, should increase or decrease in this period, our price lists will apply, taking into consideration the current market prices for raw materials at the point of delivery. If this should result in an increase in the current total price of 20% or more above the original total price, the customer will have the right to withdraw from the contract. This right must be exercised immediately, at least in text form, after notification of the price increase.

3.3. In the case of an order value of less than €200.00 net, an additional processing fee of €30.00 net will be charged.

3.4. All prices are quoted "ex works" Marktoberdorf (EXW according to Incoterms 2020).

3.5. VAT at the statutory rate is not included in our prices. It will instead be shown separately on the invoice at the rate in force on the invoice date.

4. Delivery deadlines, impediments to delivery, urgent deliveries, partial deliveries, returning loaned pallets and packaging

4.1. Delivery is "ex works" Marktoberdorf (EXW according to Incoterms 2020). At the request and expense of the customer, we will ship the parts to another destination (sale by delivery to a place other than the place of destination). Unless otherwise agreed, we will be entitled to determine for ourselves the method of despatch (in particular the transport company, despatch route, packaging). A transport insurance policy can be concluded at the customer's request and expense.

4.2. Unless the delivery is to be carried out immediately, the delivery deadline will be announced in the order confirmation in accordance with clause 2.1. Should the customer be required to collaborate with us, the delivery period will not begin until the customer has fulfilled its obligations.

4.3. If a binding delivery date has been agreed, this deadline will be extended appropriately in the event of force majeure of any kind and of disruption to operations, traffic or dispatch, fire dam-

age, floods, shortages of labour, energy, raw materials or auxiliary materials, lawful strikes and official decrees for which we cannot assume liability, or any other events for which we cannot assume liability which may impair, delay, prevent or render unreasonable production, dispatch or consumption. In such cases, we will inform the customer immediately and, at the same time, provide a new anticipated delivery date. If the disruption should cause the delivery to be delayed by more than eight weeks, both parties will be entitled to withdraw from the contract. We will immediately reimburse the customer for any consideration previously paid by it.

Other reasons for which we are not responsible within the meaning of the previous section include the failure on the part of our suppliers to deliver to us on time.

4.4. Express shipments will be made only if expressly requested by the customer, who will bear the costs of said shipments. This also applies to all other types of shipping expressly requested by the customer.

4.5. We are entitled to dispatch partial shipments. Any subsequent shipments will be sent carriage-free and without charge for packaging materials.

4.6. Loaned pallets will be taken back free of charge by the commissioned haulage companies. The disposal of packaging material will be carried out by INTERSEROH Dienstleistungs GmbH. This company assumes responsibility on our behalf in Germany and Austria for the sorting and marketing of packaging for the purpose of recycling pursuant to statutory packaging laws.

5. Warranty, complaints, planning services and returns

5.1. In the event of material defects and defects of title (including wrong and short delivery as well as improper assembly or faulty assembly instructions), the rights of the customer will be governed by the statutory provisions, unless otherwise stipulated below: In all cases, the special statutory provisions on the sale of consumer goods (§§ 474 ff BGB) and the customer's rights arising from separately issued guarantees remain unaffected.

5.2. The basis of our liability for defects is above all the agreement reached on the quality of the goods. All product descriptions and details which are the subject of the individual contract or which were made public by us (in particular in catalogues or on our Internet homepage) at the time of the conclusion of the contract will be deemed to be an agreement on the quality of the goods.

Insofar as the quality has not been agreed, the legal regulation will be used to assess whether or not a defect exists (§434 (3) BGB). However, we do not assume any liability for public statements made by the manufacturer or other third parties (e.g. advertising statements) which the customer has not pointed out to us as being decisive for its purchase.

5.3. Subject to clause 5.4., the customer's claims for defects presuppose that it has complied with its statutory obligations to inspect and give notice of defects (§§ 377, 381 HGB). Complaints on the grounds of recognisable defects, incorrect shipments or deviations from the agreed quantity must be reported to us immediately, at least in text form, and, at the latest, within fourteen calendar days of receipt of the goods. In the case of building materials and other goods intended for installation or further processing of some other kind, an inspection must always be carried out immediately prior to such installation or further processing. Concealed defects must be reported to us immediately, at least in text form, within fourteen calendar days of their discovery. If the customer should fail to properly inspect the goods and/or give notice of defects, our liability for any defect which has not been reported at all or in a timely manner or in the due form will be excluded in accordance with the statutory provisions. In the case of goods intended for assembly, mounting or installation, this shall also apply if the defect only became apparent after the corresponding processing as a result of the breach of one of these obligations; in this case, in particular, the customer shall have no claims for reimbursement of corresponding costs ("removal and installation costs"). Clause 5.5 remains unaffected.

5.4. For special productions, the customer must declare acceptance to us, at least in text form, immediately after delivery; in such a case, section 5.3 will not apply. We reserve the right to set the customer a suitable deadline for acceptance. If it is not possible for the customer to adhere to this deadline for reasons for which it is not responsible, a suitable subsequent deadline must be set. Failure by the customer to accept the goods within the aforementioned deadlines will be deemed equivalent to acceptance. Acceptance cannot be refused on the grounds of insignificant defects, particularly industry-standard deviations in respect of colour, weight and quantity. Should the customer fail to complain at the point of acceptance, it will no longer be entitled to submit complaints concerning defects which would have been recognisable at the point of acceptance.

5.5. The customer is not permitted to further process, install or sell goods in respect of which a defect complaint has been submitted or goods which have not been accepted until the complaint has been clarified or acceptance has taken place. We must be given the opportunity to choose either to inspect the affected goods on site or to have them returned to us. Clause 5.3. remains unaffected.

5.6. Excluded from warranty are any defects/damage resulting from normal wear and tear, improper handling or use, misuse, faulty assembly or repair. The same applies to defects which only negligibly reduce the value of the goods or impair their suitability for use. In particular, tolerances customary in the industry, deviations in colour, weight and quantity as well as the consequences of natural weather influences do not constitute a defect. If we carry out planning or calculation services at the customer's request, especially for gutters, or make recommendations or offer advice, these will be non-binding and subject to correction. These must in any case be verified by an expert (architect, engineer, etc.).

Furthermore, we are generally not liable for defects that the customer is aware of or is grossly negligent in not being aware of when the contract is concluded (§ 442 BGB).

5.7. In the event of justified and timely complaints, we will, at our discretion, either remedy the defect (rectification of defects) or deliver a defect-free item (replacement delivery) within the scope of subsequent performance. Subsequent performance does not include the dismantling, removal or disassembly of the defective item or the installation, attachment or assembly of a defect-free item if we were not originally obliged to perform these services; the customer's claims for reimbursement of corresponding costs ("dismantling and assembly costs") remain unaffected, subject to other provisions in these GTC (in particular 5.3). Our right to refuse subsequent fulfilment under the statutory conditions remains unaffected.

5.8. The customer must give us the time and opportunity necessary for the subsequent performance owed and, in particular, hand over the rejected goods for inspection purposes. In the event of a replacement delivery, the customer must return the defective item to us in accordance with the statutory provisions.

5.9. If the customer actually has a claim for defects, we will, in accordance with the statutory provisions, bear or reimburse the costs necessary for the purpose of inspection and subsequent performance, in particular transport, travel, labour and material costs as well as any dismantling and installation costs. Otherwise, we will be entitled to claim from the customer compensation for any costs arising from the unjustified request to remedy the defect (in particular inspection and transport costs), unless the absence of a defect was not apparent to the customer. 5.7. sentence 2 remains unaffected.

5.10. If subsequent performance should fail or a reasonable period to be set by the customer for subsequent performance expire fruitlessly or not be mandatory pursuant to the statutory provisions, the customer may withdraw from the purchase contract or reduce the purchase price. In the case of an insignificant defect (cf. section 5.6.), however, there is no right of withdrawal.

5.11. Claims of the customer for reimbursement of expenses in accordance with § 445a (1) BGB are excluded, unless it is a sale of consumer goods (§§ 478, 474 BGB). Claims of the customer for damages or reimbursement of futile expenses (§ 284 BGB) shall only exist in accordance with the following clause 6, even in the event of defects in the goods.

5.12. Warranty claims expire in five years; for specially marked products, the date of expiry is 12 months from receipt or acceptance of the goods.

5.13. The return of goods must be coordinated with us in advance for the purpose of efficient handling. Freight collect shipments and shipments of which we have not been notified in advance and to which we have not agreed will not be accepted.

6. Liability

6.1. Unless otherwise stated in these GTC and the following provisions, we shall only be liable for damages, irrespective of the legal grounds, in the event of wilful intent or gross negligence, including wilful intent or gross negligence on the part of our representatives or vicarious agents.

6.2. However, we will be liable in accordance with the statutory provisions if we culpably violate an essential contractual obligation (an obligation whose fulfilment makes the proper execution of the contract possible in the first place and on whose compliance the contractual partner regularly relies and should be able to rely); in this case, however, the liability for damages will be limited to the foreseeable, typically occurring damage.

6.3. Liability for culpable damage to life, limb and health is unaffected in all cases; the same applies also to mandatory liability pursuant to the German Product Liability Act and to the extent that a defect was maliciously concealed or a warranty offered for the condition of the goods.

7. Payment, offset payments, right of retention, interest

7.1. In principal, payment is due immediately upon receipt of the invoice without any deductions. We reserve the right initially to require payment in advance or COD for shipments to unknown customers.

7.2. Payment by cheque is conditionally acceptable subject to the successful redemption thereof. Bills of exchange are not acceptable as means of payment.

7.3. The customer may offset payments to us against receivables owed to it only in the case of undisputed debts or debts which have been upheld by a final and absolute court ruling or in whose case a ruling is expected imminently. The same applies to the customer's right of retention. The reciprocal rights of the buyer in the event of defects to the goods are unaffected.

7.4. Late payment by the customer will entitle us in accordance with § 247 BGB to charge default interest in the amount of 9 % above the applicable base rate.

8. Retention of title

8.1. Items purchased will remain our property until all payments arising from the business relationship between Grömo GmbH & Co. KG and the customer have been received.

8.2. In the event of a breach of contract by the customer, especially default on payment, and after having set a reasonable deadline for payment, we will be entitled to take back the goods subject to retention of title. Taking back the goods will constitute our withdrawal from the contract. After the recovery of the goods, we will be permitted to dispose thereof, and the proceeds resulting

from that disposal, less reasonable disposal expenses, will be offset against the customer's liability. The expense involved in returning the goods to us will be borne by the customer.

8.3. The customer must handle with care the goods subject to retention of title. It must sufficiently insure said goods at replacement value against fire and water damage and theft.

8.4. The customer has the right to resell the goods subject to retention of title in the course of its normal business activities, provided that it meets the obligations arising out of the business relationship with us in due time. However, it may not pledge the goods subject to retention of title or assign them by way of security.

The customer hereby assigns to us here and now all of its claims and rights arising from the resale of the goods subject to retention of title, as well as those claims of the customer with respect to the goods subject to retention of title which may for other legal reasons be asserted against its own customers or third parties (especially claims from unauthorised actions or for insurance payments), including all balance claims from current accounts. We hereby accept the assignment. The customer may on its own account and in its own name collect for us the receivables assigned to us until such time as we revoke its authorisation to do so.

Our right to collect these receivables ourselves is not affected by this; however, we will not assert the claims ourselves or revoke the direct debit authorisation as long as the customer duly meets its payment obligations. However, if the customer acts in breach of contract, we can require it to inform us of the assigned claims and the respective debtors, to notify the respective debtors of the assignment and to hand over to us all documents and provide us with all the information we need to assert the claims.

8.5. In the event of seizure of the goods subject to retention of title or other actions by third parties, the customer must inform those third parties of our ownership of those goods and notify us immediately, at least in text form, so that we can enforce our rights of ownership. Should the third party not be capable of reimbursing us for the court or out-of-court costs incurred in this context, the customer will be liable for any losses we sustain.

8.6. We hereby commit at the request of the customer to releasing the collateral due to us pursuant to the above provisions as and when the realisable value of the collateral held by us exceeds that of the receivables to be secured by more than 10%. The choice over the collateral to be released remains with us.

9. Place of fulfilment, place of jurisdiction, contractual language, data processing, partial invalidity

9.1. The place of fulfilment for all duties resulting from the contractual relationship is Marktoberdorf.

9.2. If the customer is a merchant within the meaning of the German Commercial Code, a legal entity under public law or a special asset fund under public law, the exclusive and international place of jurisdiction is Marktoberdorf, where our headquarters are located, for all disputes resulting directly or indirectly from the contractual relationship. We also have the right to open proceedings at the place of general jurisdiction of the customer. Overriding statutory provisions, in particular regarding exclusive responsibilities, remain unaffected.

9.3. The law of the Federal Republic of Germany applies. German international private law and the UN Convention on Contracts for the International Sale of Goods (CISG) are excluded.

9.4. Even if the customer is in possession of a non-binding translation of these GTC into another language, the German version alone will be authoritative.

9.5. Should the customer supply us with data related to persons, the data required to process the business transaction will be collected, processed, stored and passed on to other affiliated companies in the context of order processing and, if necessary, to partner and service companies. With regard to the detailed rules for processing data, we refer to our data protection regulations at www.groemo.com/de/footer/datenschutz.

9.6. If individual provisions of these GTC or the business transaction should be or become invalid, the remainder of the provisions will be unaffected. Any invalid provision is to be replaced by that valid and permissible provision which most closely corresponds with the invalid provision in terms of its meaning and purpose.

Grömo GmbH & Co. KG
Johann-Georg-Fendt-Strasse 38
D-87616 Marktoberdorf, Germany

