

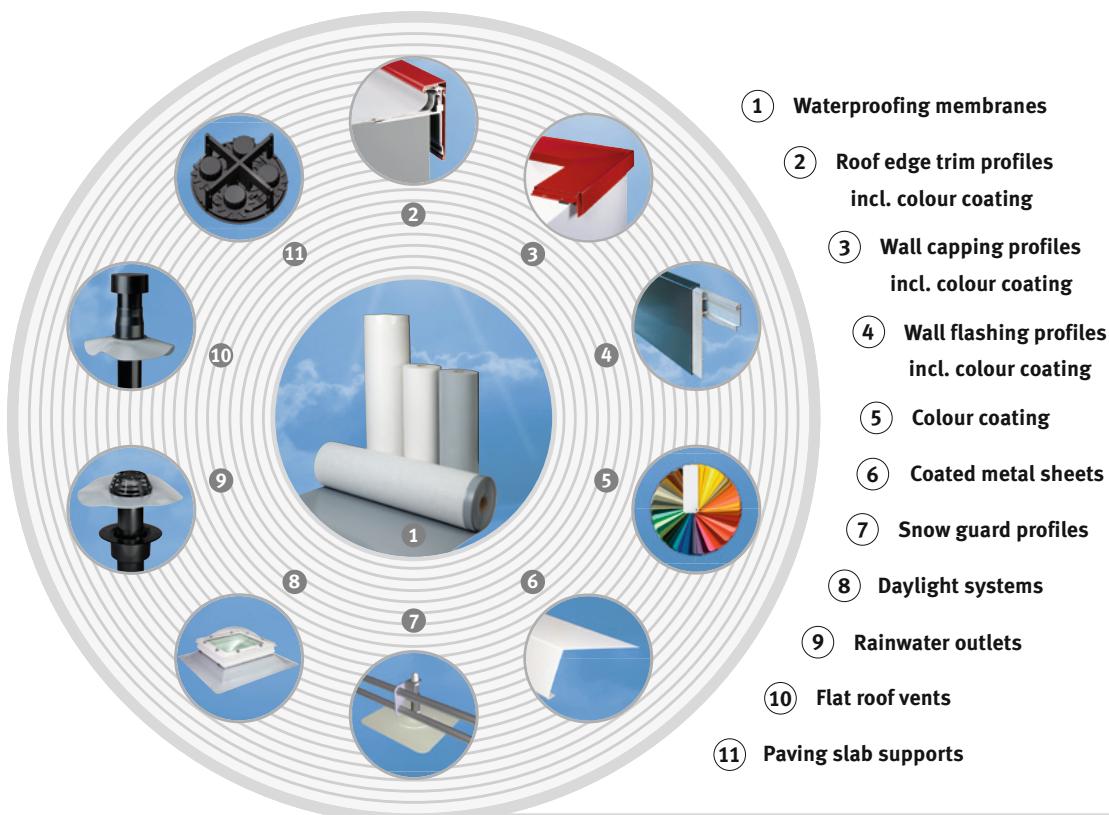
Wall capping profiles

MAG-6
MAG-4
MAK
MAK-5
Special details



alwitra waterproofing systems

alwitra wall capping profiles are part of the proven alwitra product system.
This system comprises:



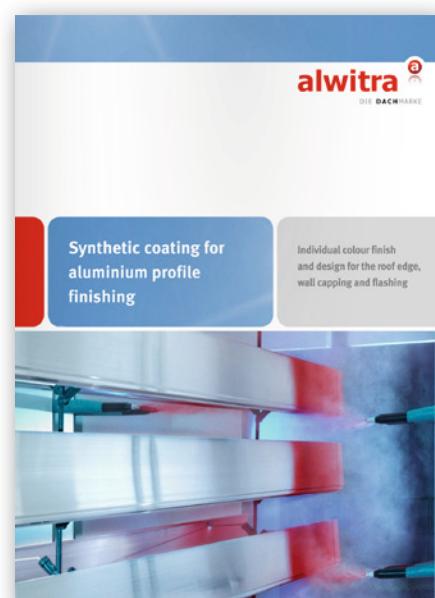
Further information

For further information on scope of delivery and standard accessories, please refer to our current price list.

For additional technical information, please see our installation instructions and videos at www.alwitra.de/en/aluminium-profiles/wall-capping-profiles or scan the QR code.



For information on “Colour coating for aluminium profile finishing”, see separate brochure.



alwitra wall capping profiles

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From one roof edge to the other: As the market leader in high-quality roofing systems, alwitra provides all waterproofing components by way of an integrated system solution from a single source. Since the establishment of the company in 1964, alwitra has set new standards for the entire industry by introducing numerous product innovations. This is also true for the practically proven alwitra wall capping profiles.

Wall capping profiles form part of the roof waterproofing and, particularly with an individually coloured coating, contribute to the overall architectural impression of the building.

alwitra wall capping profiles are:

- industrially manufactured and ready to install
- suitable for all types of roof waterproofing (synthetic membranes or bituminous membranes)
- made of aluminium, EN AW 5005, fixing brackets / joint connections made of EN AW 6060 / EN AW 6063, light-weight and noncorrosive, recyclable
- available in pure aluminium, with colour coating or anodised
- compliant with standards and directives
- for straight or curved (on plan) roof edges with upstands (parapet)
- fixing bracket-profile-constructions with ready-to-install external and internal corners, stop ends and wall abutments
- for simple and time-saving installation

Advantages of alwitra wall capping profiles

- strong fixing brackets / joint connections to meet building law requirements
- execution of roof edges in compliance with standards and directives (DIN EN 1991-1-4, DIN 18531, DIN 18339, Technical Rules of the German Roofing Trade Association)
- tight-welded corners, tees and preformed details
- various cross sections
- stackable levelling plates for alignment and cross slope creation

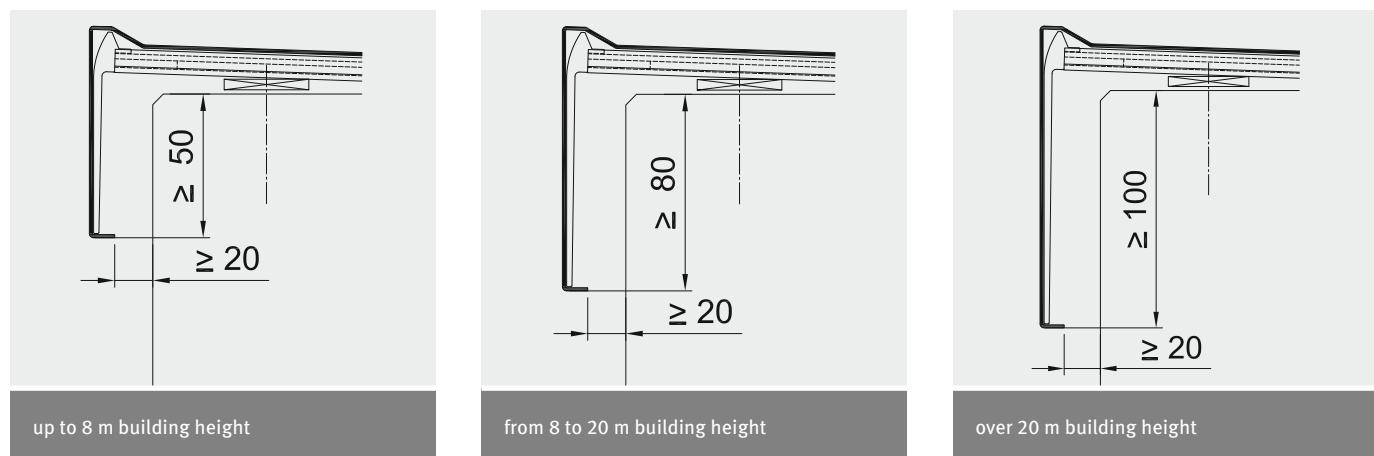


Wall capping profiles

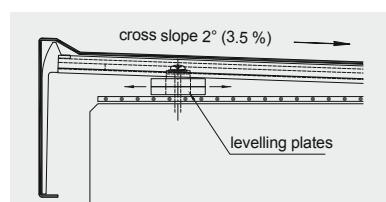
Information on design¹ and execution

Information on design and execution of roof edges with wall capping profiles:

- 1 The capping profiles, fixing brackets and fasteners must be able to withstand normally expected wind loads (see also the table on page 5). Material thickness and fixing brackets centres are designed depending on crown width and wind loads.
- 2 Capping profiles for used roof areas (terraces, balconies) should preferably be made in 2.0 mm sheet thickness. To meet aesthetic requirements capping profiles made of aluminum need a colour coating.
- 3 The height of the roof edge trim above the finished roof surface (roof waterproofing, gravel or slabs) should be approx. 100 mm or for roof slopes over 5° approx. 5 mm.
- 4 The wall capping profile must overlap the upper edge of the render finish or the façade cladding by at least 50 to 100 mm. The drip edge must be at least 20 mm away from the building structure (Technical Rules of the German Roofing Trade Association, VOB/C ATV DIN 18339). National regulations apply.



- 5 The roof waterproofing must be taken to the outer edge of the upstand and fastened. In the case of trafficked roof areas, the roof waterproofing in the flashing area must be protected against mechanical damage.
- 6 Wall capping profiles must be designed and installed so as to not allow any impairment of the waterproofing resulting from thermal movements of the profiles.
- 7 At corners and ends, preformed details or manual processing (e.g. folding, welding) may be required.
- 8 Metal wall capping profiles being most often struck by lightning must be integrated into the lightning protection system, if they are not within the range of lightning arresters.
- 9 Wall capping profiles should be sufficiently inclined towards the roof side to prevent polluted rainwater from draining off towards the façade. It is recommended to have an upstand at the side facing away from the roof.



Note:

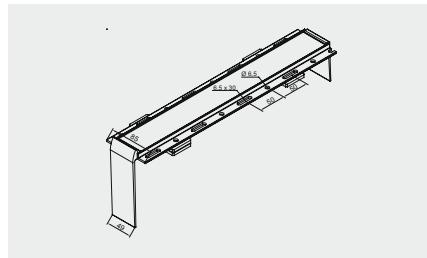
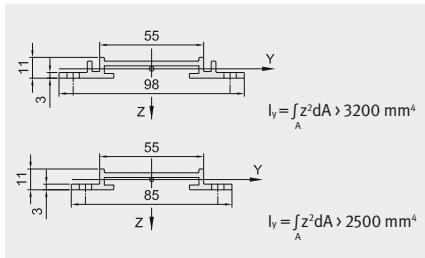
alwitra wall capping profiles are available with façade-side upstand and a cross slope of 2° (3.5 %) towards the roof area, minimizing dripping water at the façade and directing it onto the roof area.

¹ pursuant to the Technical Rules of the German Roofing Trade Association, VOB/C ATV DIN 18339, DIN EN 1991-1-4, DIN 18531. National regulations must be observed.

Wall capping profiles

Information on design and execution

According to the current Code of Practice for Metal Work in the Roofing Trade, a structural analysis is required. With our strong fixing brackets, you as the designer or installer will easily meet this requirement using our standard fixing bracket centre data (see table below).

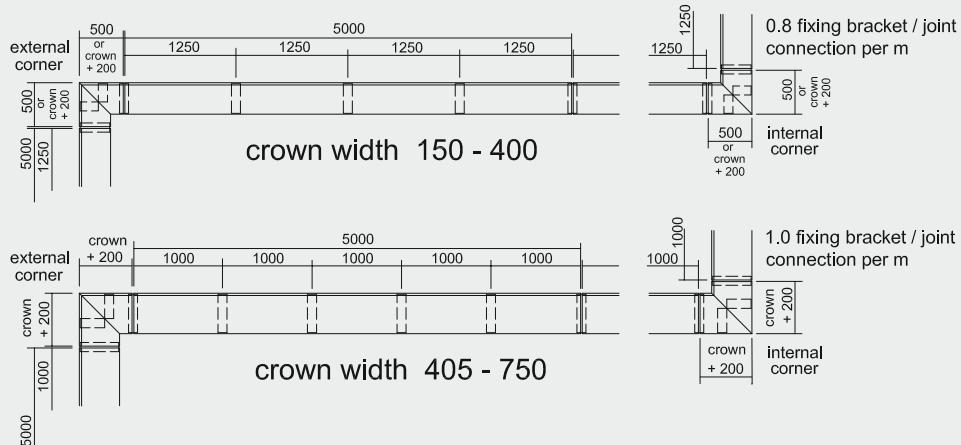


alwitra fixing bracket rails are made of selected extruded aluminium alloy profiles featuring high mechanical strength. The fixing bracket rail profiles have a geometrical moment of inertia of $I_y > 2,500 \text{ mm}^4$.

Furthermore, the robust rails for the fixing brackets / joint connections all come with slot holes, providing for exact and quick fixing brackets alignment at installation.

One or more stackable cross-sliding levelling plates are placed under each fixing bracket / joint connection. Thus, at installation the cross slope and height line can be aligned with the other fixing brackets / joint connections.

Standard fixing bracket centre (up to crown width 400 mm: 1.25 m, crown width 405 to 750 mm: 1.00 m)



Maximum building height for standard fixing bracket centres depending on wind load zone and terrain category according to DIN EN 1991-1-4 (Eurocode), material thickness and crown width

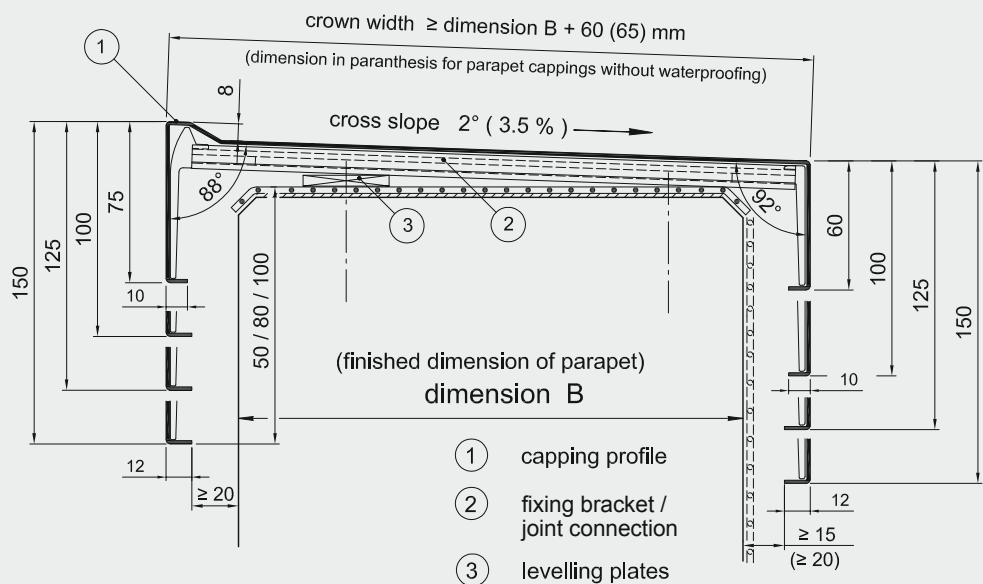
Material thickness		1.5 mm			2.0 mm		
Crown widths		250 mm	350 mm	450 mm	550 mm	650 mm	750 mm
Max. building height in wind load zone 1	Terrain category II	25 m	25 m	15 m	25 m	14 m	7.5 m
	Mixed profile - inland	25 m	25 m	23 m	25 m	22 m	15 m
	Terrain category III	25 m	20 m				
Max. building height in wind load zone 2	Terrain category II	25 m	15 m	6 m	13 m	6 m	-
	Mixed profile - inland	25 m	23 m	13 m	21 m	13 m	8.5 m
	Terrain category III	25 m	25 m	17 m	25 m	16 m	10 m
Max. building height in wind load zone 3	Mixed profile - inland	25 m	14 m	8 m	12 m	7.5 m	-
	Terrain category III	25 m	18 m	9.5 m	16 m	9 m	-

For other building heights and buildings in wind-exposed areas (e.g. wind load zone 4, near-coastal areas, building locations more than 800 m above sea level, exposed areas)

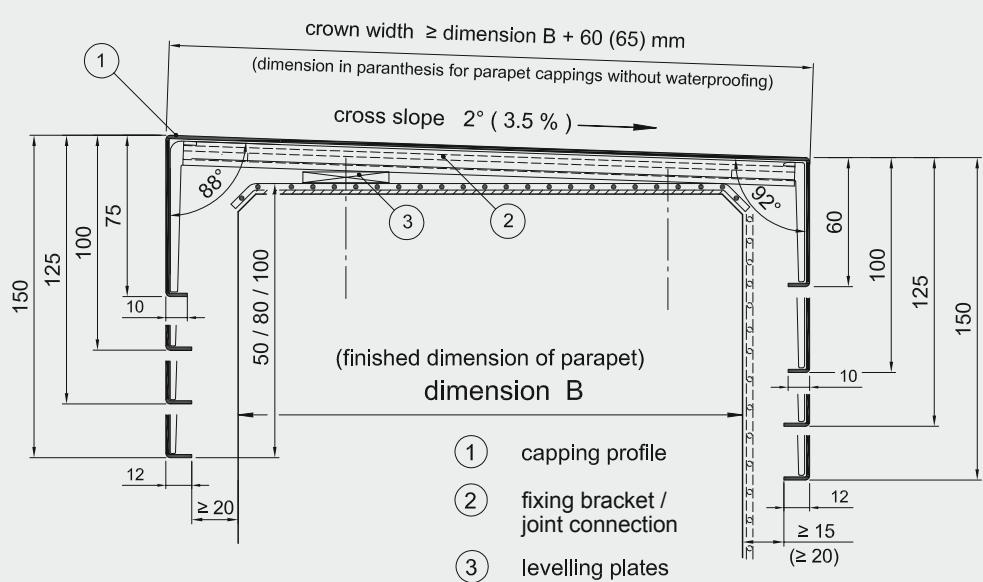


Wall capping profile MAG-6 / MAG-4

- one-piece bent aluminium profile
- front face height: 75, 100, 125, 150 mm
- rear face height: 60, 100, 125, 150 mm
- variable crown width
- with front face upstand (MAG-6)
- without front face upstand (MAG-4)



MAG-6, front face height 75, 100, 125, 150 mm, rear face height 60, 100, 125, 150 mm



MAG-4, front face height 75, 100, 125, 150 mm, rear face height 60, 100, 125, 150 mm

Wall capping profile MAG-6 / MAG-4

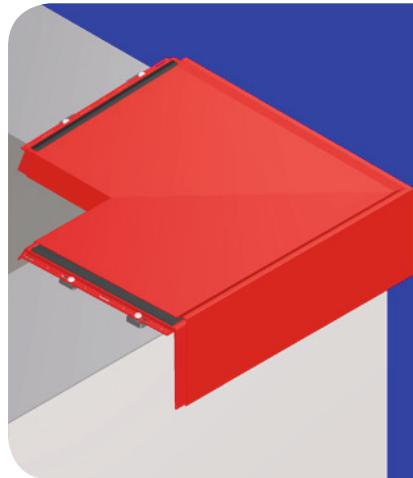
alwitra wall capping profile MAG-6 / MAG-4:

- fixing bracket / joint connection slide-mounted, one-piece aluminium capping
- bent from 1.5 or 2.0 mm aluminium sheets
- light-weight, noncorrosive, recyclable
- available in pure aluminium, with colour coating or anodised
- 5.0 m capping profile sections with a front face height of 75, 100, 125 and 150 mm, rear face height of 60, 100, 125 and 150 mm
- girth 300 to 1,000 mm
- crown width from 150 to 500 mm, made of 1.5 or 2.0 mm aluminium sheets
- crown width > 500 to 750 mm, made of 2.0 mm aluminium sheets, with additional reinforced fixing bracket rail
- fixing brackets / joint connections made of extruded aluminium, with stackable levelling plates for height line and cross slope alignment
- rainproof butt joints ensured by joint connections with rubber lip seals
- ready-to-install welded external and internal corners, tees, preformed details, stop ends and wall abutments
- larger crown widths / rear faces / front face heights / sheet thicknesses / girths on request

Ask for our in-stock profile geometries (see current price list).

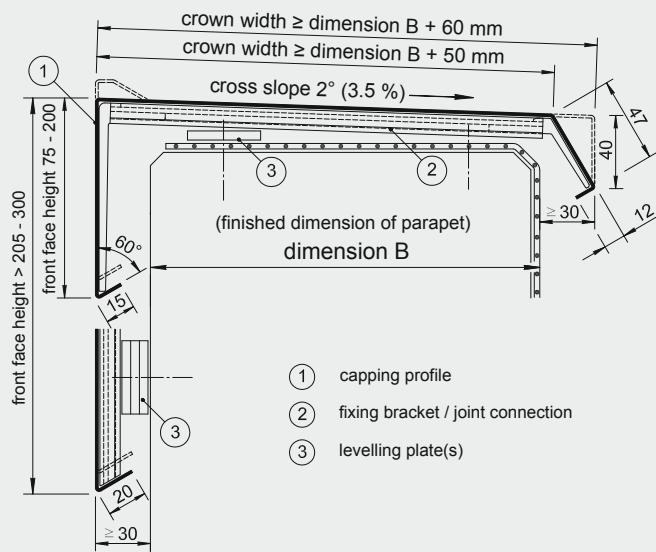
Take advantage of our favourable delivery and price conditions!





Wall capping profile MAK

- one-piece bent aluminium profile
- variable front face height from 75 to 300 mm
- variable crown width
- rear face height 40 or 47 mm
- with or without front face upstand



MAK, front face height 75 - 300 mm, rear face height 47 / 40 mm

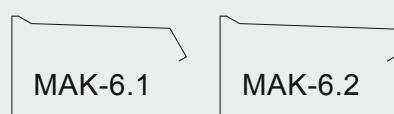
alwitra wall capping profile MAK:

- fixing bracket / joint connection slide-mounted, one-piece aluminium capping
- bent from 1.5 or 2.0 mm aluminium sheets
- light-weight, noncorrosive, recyclable
- available in pure aluminium, with colour coating or anodised
- 5.0 m capping profile sections with a front face height from 75 to 300 mm, rear face height of 40 mm (92°) or 47 mm (122°)
- girth 300 to 1,000 mm
- crown width from 150 to 500 mm, made of 1.5 or 2.0 mm aluminium sheets
- crown width > 500 to 750 mm, made of 2.0 mm aluminium sheets, with additional reinforced fixing bracket rail
- fixing brackets / joint connections made of extruded aluminium, with stackable levelling plates for height line and cross slope alignment
- rainproof butt joints ensured by joint connections with rubber lip seals
- ready-to-install welded external and internal corners, tees, preformed details, stop ends and wall abutments
- larger crown widths / front face heights / sheet thicknesses / girths on request

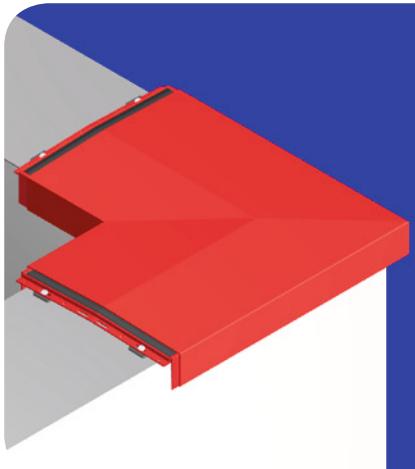
Cross sections MAK



Cross sections without water stop

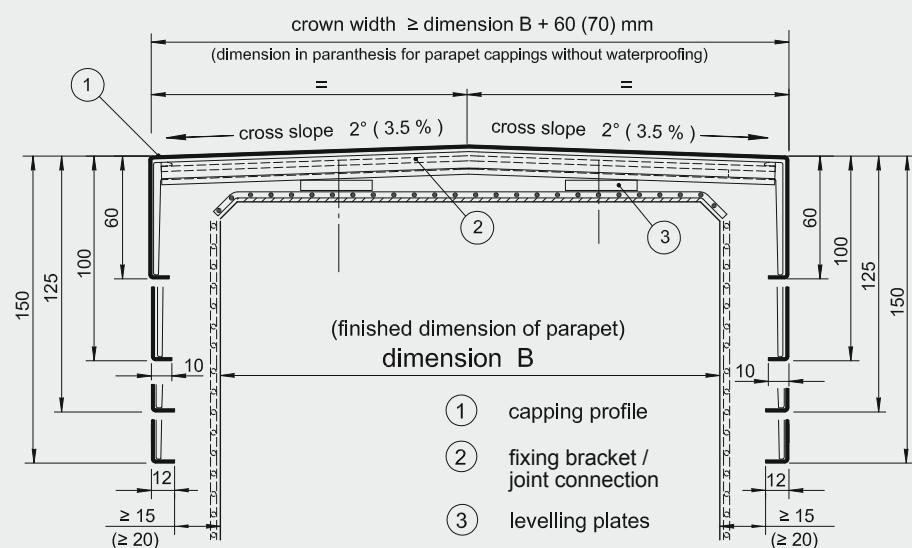


Cross sections with water stop



Wall capping profile MAK-5

- one-piece bent aluminium profile
- front face heights:
 - MAK-5: 60, 100, 125, 150 mm
 - MAK-5.1: 47 mm
 - MAK-5.2: 40 mm
- variable crown width



Front face heights: MAK-5: 60, 100, 125, 150 mm

alwitra wall capping profile MAK-5:

- fixing bracket / joint connection slide-mounted, one-piece aluminium capping
- bent from 1.5 or 2.0 mm aluminium sheets
- light-weight, noncorrosive, recyclable
- available in pure aluminium, with colour coating or anodised
- 5.0 m capping profile sections with a front face height of 40, 47, 60, 100, 125 and 150 mm
- girth 250 to 1,000 mm
- crown width from 150 to 500 mm, made of 1.5 or 2.0 mm aluminium sheets
- crown width > 500 to 750 mm, made of 2.0 mm aluminium sheets, with additional reinforced fixing bracket rail
- fixing brackets / joint connections made of extruded aluminium, with stackable levelling plates for height line and cross slope alignment
- rainproof butt joints ensured by joint connections with rubber lip seals
- ready-to-install welded external and internal corners, tees, preformed details, stop ends and wall abutments
- larger crown widths / front face heights / sheet thicknesses / girths on request

Cross sections MAK-5

MAK-5

Front face heights 60, 100, 125 and 150 mm
(as rear face height MAG-6 / MAG-4)

MAK-5.1

Front face height 47 mm (as rear face height
MAK 4.1 and MAK 6.1)

MAK-5.2

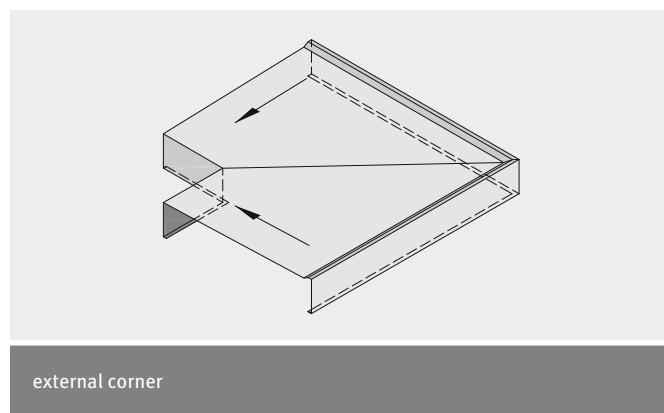
Front face height 40 mm (as back face height
MAK 4.2 and MAK 6.2)

alwitra wall capping profiles Corners and wall end sections (wall abutments / stop ends)

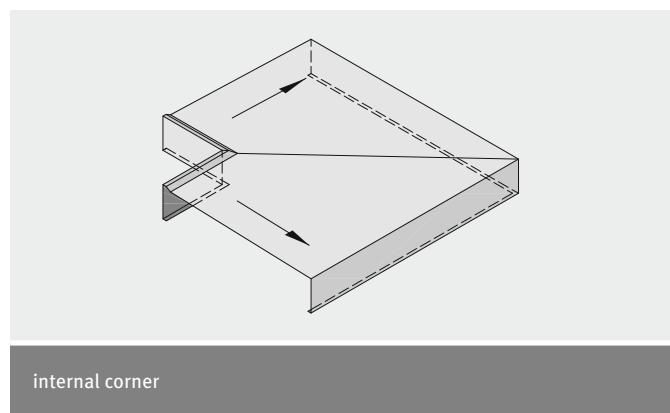
alwitra offers a wide variety of solutions for roof edges or terraces with upstands (parapet). Corners, wall end sections and preformed details are available in different varieties.

- ready-to-install external and internal corners, tees, preformed details, stop ends and wall abutments
- tight-welded at the rear (non-visible welding seam), concealed fastening
- strong fixing brackets / joint connections made of extruded aluminium, with stackable levelling plates for height line and cross slope alignment

Standard corners:



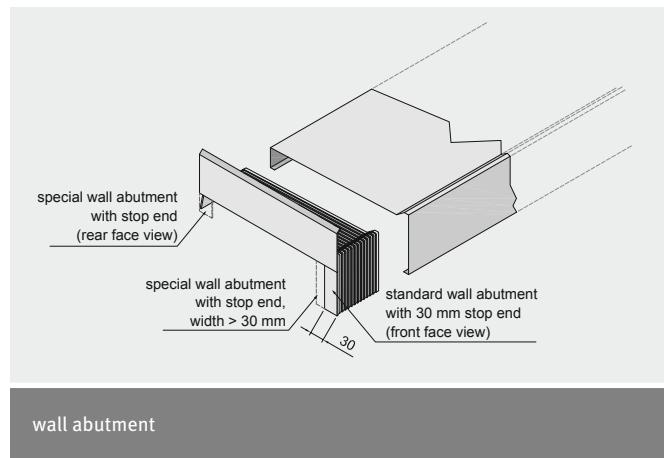
external corner



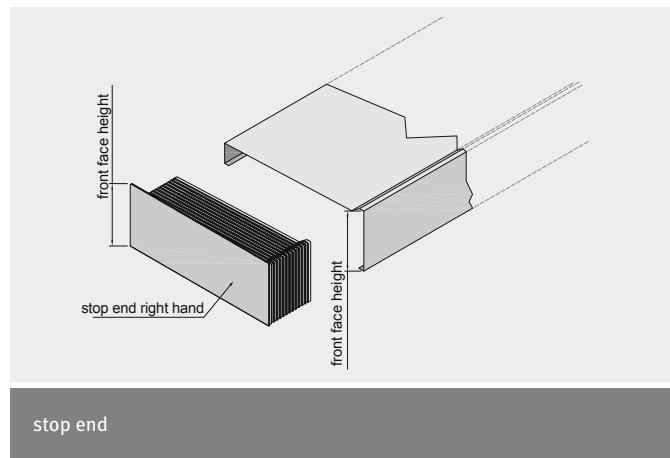
internal corner

- crown width up to 300 mm: leg length = 500 mm
crown width from 305 mm: leg length = crown width + 200 mm
- scope of delivery including additional corner fixing brackets
- also available as special corners with differing angles and/or differing leg lengths

Wall end sections (wall abutments / stop ends):



wall abutment

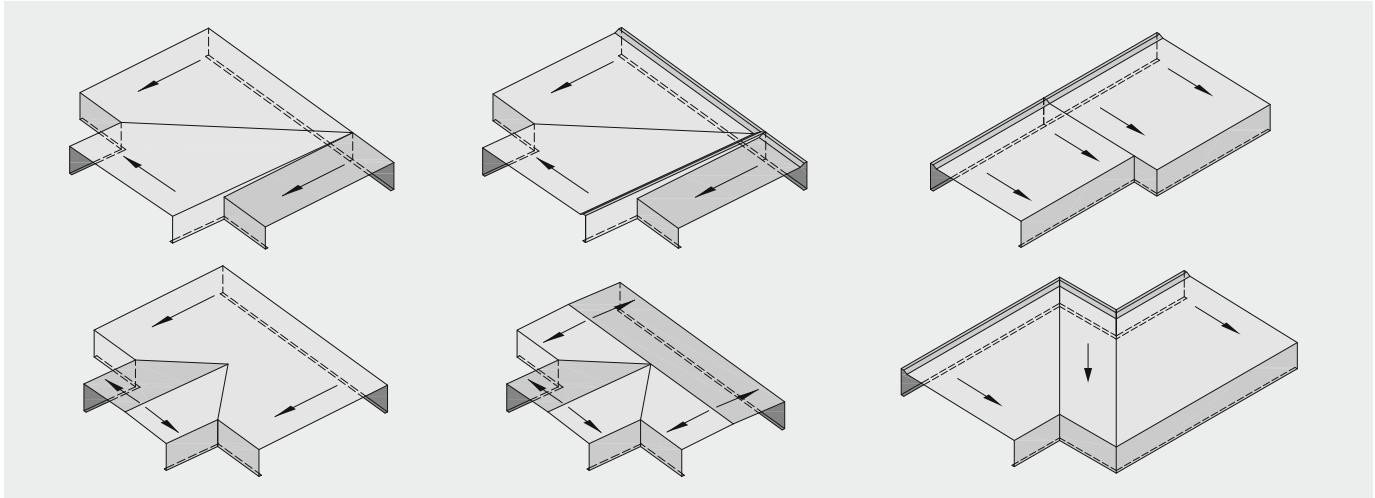


stop end

- all standard wall abutments come with a 30 mm wide stop end at the front face side
- when ordering please specify, if for a wall abutment an additional stop end at the rear face side or a wider stop end is required
- stop ends at both sides are included with standard MAK-5 wall abutments

alwitra wall capping profiles

Preformed details

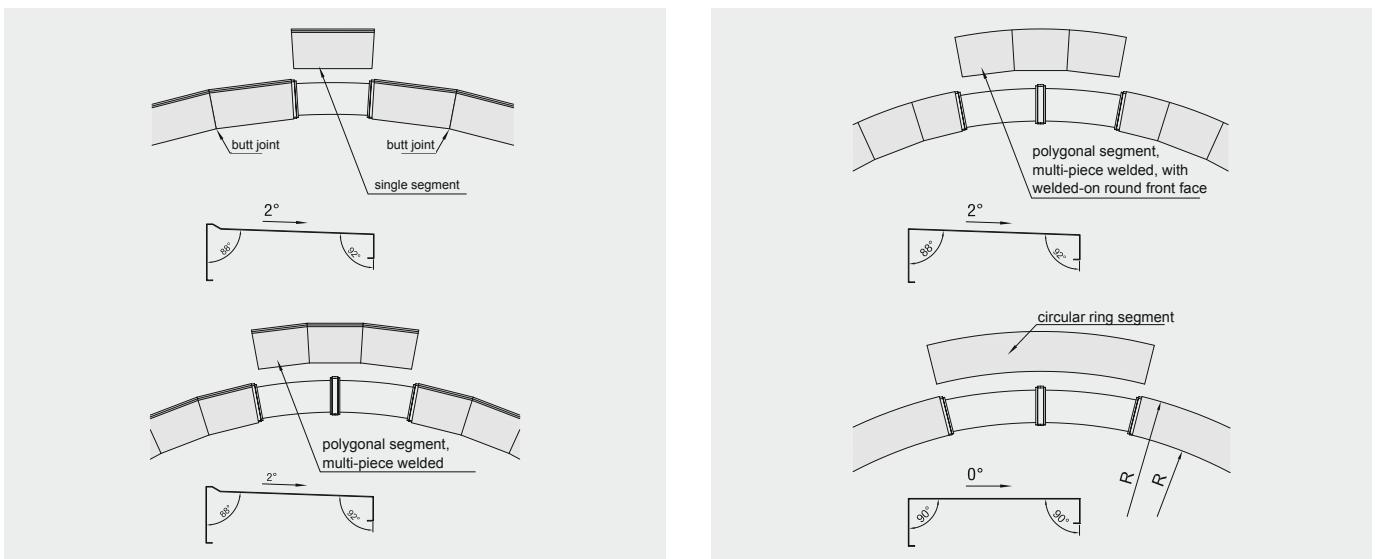


- fit-to-size system tees for almost any possible installation
- also for varying crown widths and different profiles
- preformed adaptor details, adaptor corners, Z-corners, valley and front face corners

By using industrially manufactured alwitra wall capping profiles also curved roof edges with parapet or edge boards can be formed according to standards and directives.

The following curved roof edge cappings are possible:

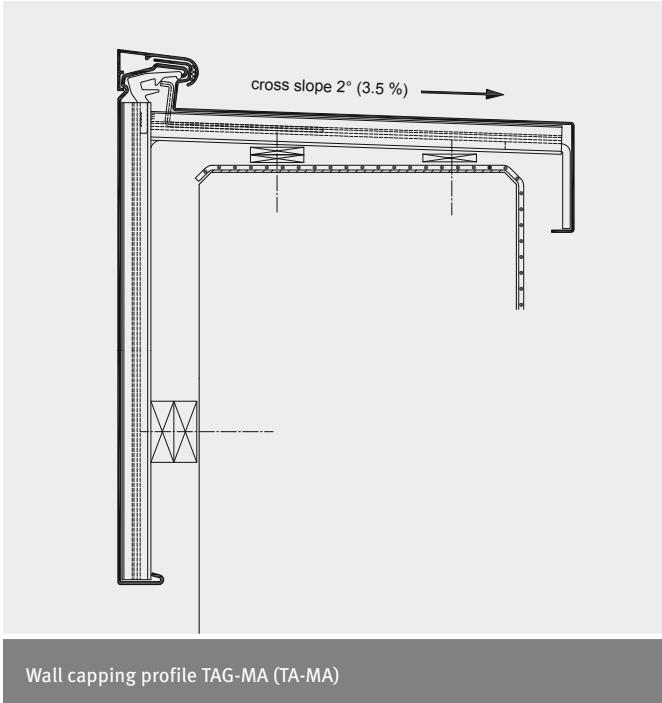
- polygonal version with cross slope and an optional front face upstand with single segments or multi-piece welded polygonal segments
- welded polygonal segments with welded-on round front face without upstand
- circular ring segments without cross slope and without front face upstand, with welded-on front face



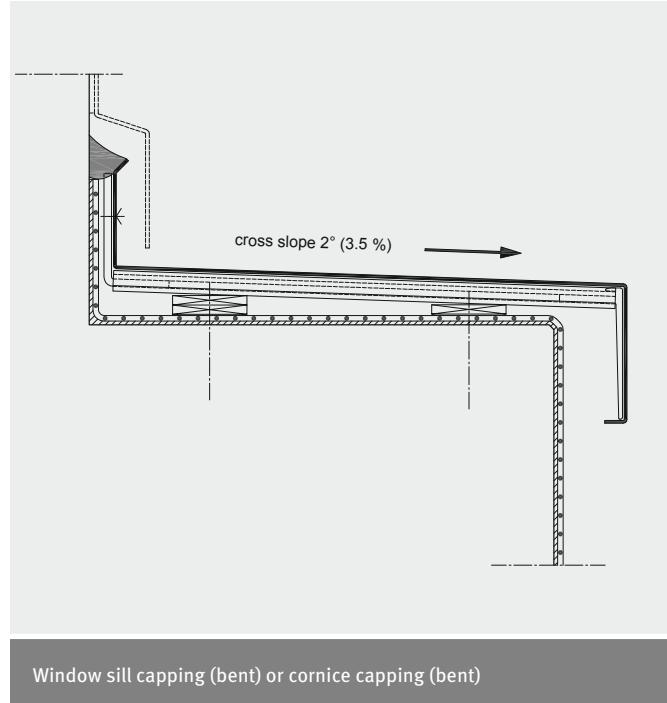
Circular ring segments and polygonal segments with welded-on round front face are welded constructions from 2.0 mm aluminium sheets, which after processing need colour coating to meet aesthetic requirements.

Design variations

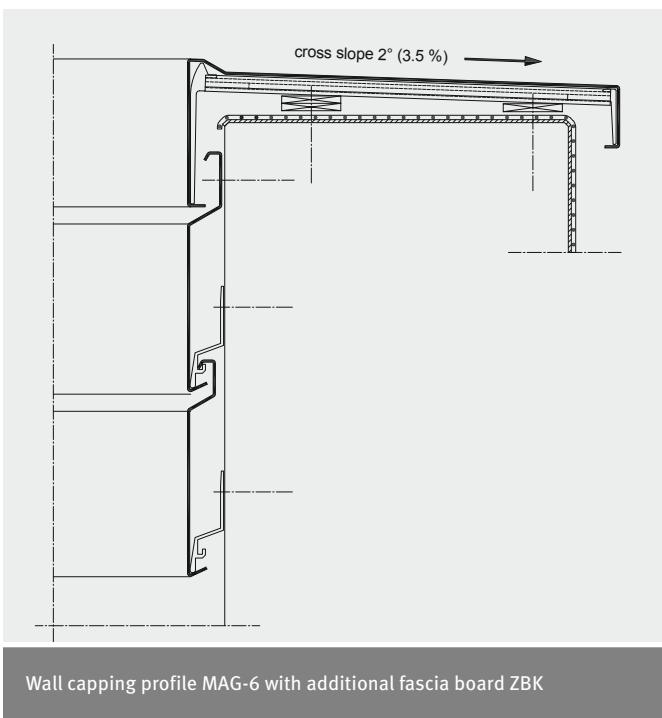
- TA-MA / TAG-MA
- cornice cappings
- window sill profiles
- additional fascia boards
- special bending according to customer specification



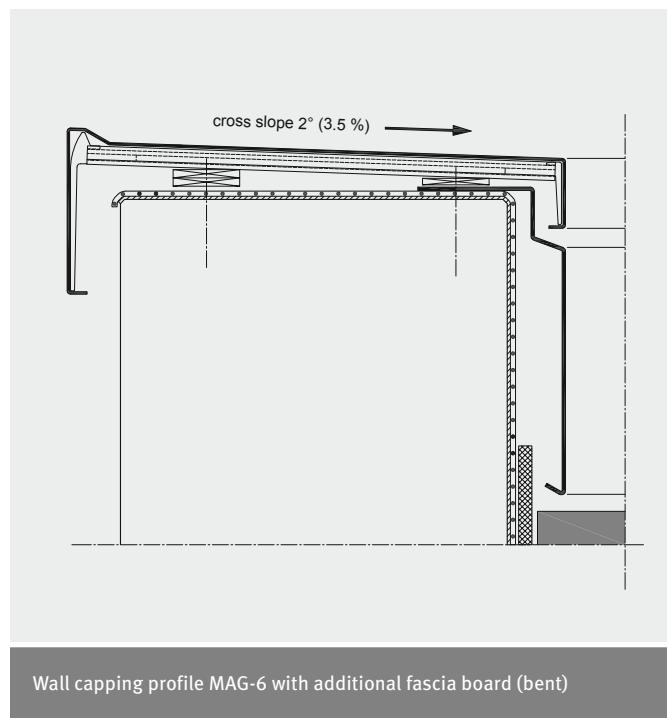
Wall capping profile TAG-MA (TA-MA)



Window sill capping (bent) or cornice capping (bent)



Wall capping profile MAG-6 with additional fascia board ZBK



Wall capping profile MAG-6 with additional fascia board (bent)

Application technology service for designers and installers

We are with you every step on your way from the design to the complete flat roof.

Quality roof waterproofing to us means not only long-term proven performance and reliability of our flat roof systems. For alwitra, providing application technology service for designers and installers is simply understood. Our experienced consultants, engineers and technicians will be glad to assist you for example with detailed installation plans for our aluminium profiles.

Application consultation for alwitra waterproofing systems

CAD details (.DXF/.DWG/.PDF)

comprehensive up-to-date CAD data base at <https://alwitra.de/en/flachdachatlas/>

CAD working drawings

installation plans for waterproofing membrane and installation plans for aluminium profiles

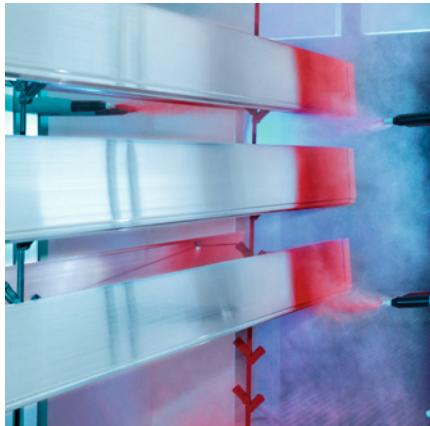
alwitra - your partner on the flat roof.



Synthetic coating for aluminium profile finishing

A new dimension of flat roof design!

alwitra is the only flat roof waterproofing manufacturer to offer both production and coating / finishing of aluminium profiles from a single source. For an even more specific and, in particular, timely realisation of your wishes and needs, we have started production on a new, worldwide unique powder coating line specially designed for our product range.



Good arguments in favour of coating and finishing alwitra aluminium profiles:

- **You will save time:**

One-stop production and coating of aluminium profiles result in optimised delivery times.

- **You will benefit from unique high-tech production with a sophisticated colour finishing concept.**

- **You will lend your buildings an unmistakable design:**

Aluminium profiles are available in a multitude of colours. On request, also with special effects.

- **Your aluminium profiles will keep their good looks:**

With regular care, the coated surfaces will remain unsoiled, smooth, dirt-repellent and easy to clean even after years.

- **You will increase the service life of your roof edge profiles, wall cappings and flashing profiles:**

The preferred colour coatings from the colour programme **alwitra select** are highly weatherproof (GSB Master), resistant to UV radiation and chemicals and extremely resistant against impact, scratches and abrasion.

- **You will contribute to preserving the environment:**

For coating of your aluminium profiles, we use energy-efficient, chrome and solvent free low-resource technology.

- **You will make use of our expertise from 45 years' experience in finishing and coating of aluminium profiles.**

The alwitra Colour World for aluminium profiles

25 permanently available, **highly weatherproof** preferred colour coatings (HWF, GSB-Master) provide the basis for the alwitra colour experience. With **alwitra select**, we offer you up-to-date high-demand colours and surface effects for a modern roof edge design.

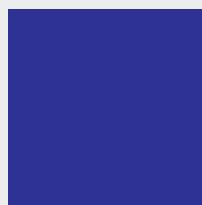
All other colours from the RAL CLASSIC colour range are available in façade quality (GSB standard).

For further information, <https://alwitra.de/en/aluminium-profiles/synthetic-coatings/>.

alwitra select



RAL 3020 traffic red
gloss, matt



RAL 5002 ultramarine blue
gloss, satin-gloss



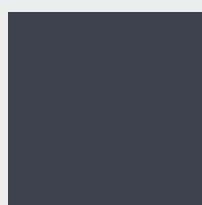
RAL 7001 silver grey
gloss, satin-gloss



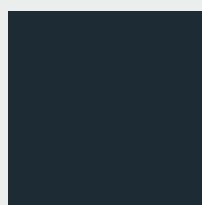
RAL 7004 signal grey
gloss, satin-gloss



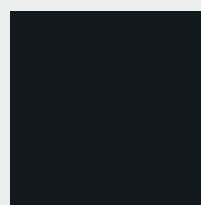
RAL 7012 basalt grey
gloss, satin-gloss



RAL 7015 slate grey
gloss, satin-gloss



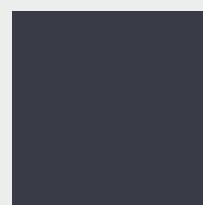
RAL 7016 anthracite grey
gloss, satin-gloss



RAL 7021 black grey
gloss, satin-gloss



RAL 7022 umber
gloss, matt



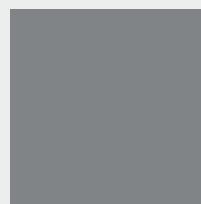
RAL 7024 graphite grey
gloss, satin-gloss



RAL 7035 light grey
gloss, satin-gloss



RAL 7036 platinum grey
glatt, seidenglänzend



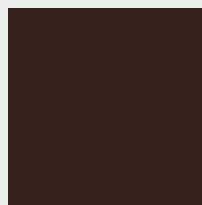
RAL 7037 dusty grey
gloss, satin-gloss



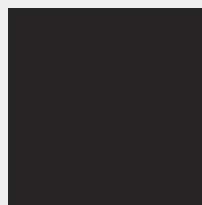
RAL 7039 quartz grey
gloss, matt



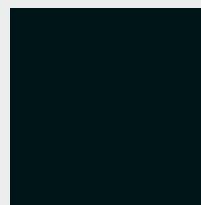
RAL 7047 telegrey 4
gloss, satin-gloss



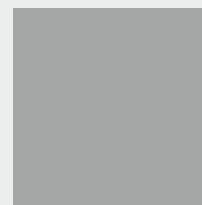
RAL 8017 chocolate brown
gloss, satin-gloss



RAL 8019 grey brown
gloss, satin-gloss



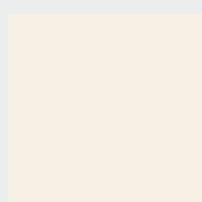
RAL 9005 jet black
gloss, satin-gloss



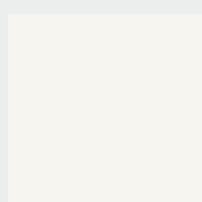
RAL 9006 white aluminium
Structure, matt, metallic



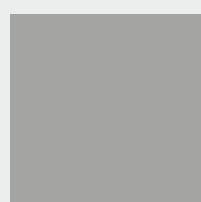
RAL 9007 grey aluminium
Structure, matt, metallic



RAL 9010 pure white
gloss, satin-gloss



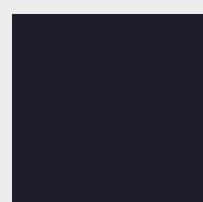
RAL 9016 traffic white
gloss, satin-gloss



DB 701
Structure, matt, metallic



DB 702
Structure, matt, metallic



DB 703
Structure, matt, metallic

The samples are printed versions of the original colours. Deviations in colour and gloss level reserved.



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