



alwitra<sup>a</sup>

Einfamilienhaus, Freimersheim

# Price List

2022

INTERNATIONAL



**New prices**

effective from 7 June 2022

# alwitra waterproofing system

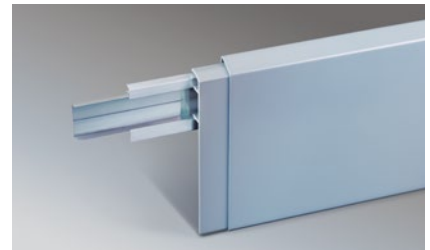
**EVALON® and EVALASTIC® waterproofing membranes are part of the proven alwitra waterproofing system. This system comprises:**



Roof edge trim profiles



Wall capping profiles



Wall flashing profiles



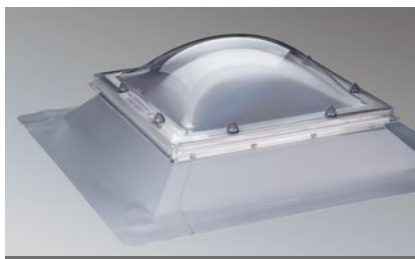
Rainwater outlets



Waterproofing membranes



Flat roof vents



Daylight systems



Coated metal sheets



Paving slab supports

alwitra offers with its flat roof systems EVALON® and EVALASTIC® two technically and technologically adapted and worldwide well-proven product lines for intelligent roof details including all connections and penetrations that resist reliably and durably to all effects and loads of the waterproofing.

All products of this flat roof system are easy and quick to install. They allow a maximum design flexibility and are very economical by their durability.

The product dimensions named in this price list are nominal dimensions without declaration of permissible product specific tolerances. Furthermore this price list applies only in combination with the published and currently valid product documentations and manufacturer's guidelines.

All prices are without VAT.

Misprints, price alterations, falsities and technical changes are reserved.

General Terms of Delivery (as per page 108-109) apply as agreed.

Effective: May 2022, all previous price lists are void.

## Table of Contents

	Product system .....	2
	Contact persons Export .....	4-5
<b>Product range</b>	<b>Products</b>	
<b>WATERPROOFING MEMBRANES</b>	EVALON® .....	6-15
	EVALASTIC® .....	16-21
<b>ROOF EDGE TRIM PROFILES</b>	T plus, TW 125 plus .....	22-25
	TA .....	26-27
	TA-4F .....	28-29
	TAG 250 – 625 .....	30-31
	TAG 650 – 1050 .....	32-33
	art-line 1 .....	34-35
<b>WALL CAPPING PROFILES</b>	MAG-6 (available ex stock) .....	36-39
	MAG-6 .....	40-41
	MAG-4 (available ex stock) .....	42-43
	MAG-4 .....	44-45
	MAG-5 .....	46-47
	MAK .....	48-49
	MAK-5 .....	50-51
<b>WALL FLASHING PROFILES</b>	WA 1 .....	52-55
	WA 150 .....	56-57
	WA 1 - ÜK .....	58-59
	WA 1 - Ü 150 E .....	60-61
<b>COLOUR COATING</b>	alwitra colour world for aluminium profiles .....	62-67
<b>DAYLIGHT SYSTEMS</b>	Rooflights.....	68-73
	Fall-through protection grating .....	74
	DayLuxe window 2.0.....	75
	Accessories Daylight systems .....	76-77
	NRA Type 24 (smoke vent system) .....	78-79
<b>FLAT ROOF DRAINAGE</b>	Rainwater outlets .....	80-84
	Emergency outlets .....	85
	Refurbishment rainwater outlet .....	86
	Water spouts (emergency outlets) .....	87-89
	Accessories and spare parts rainwater outlets / emergency outlets .....	90-93
<b>FLAT ROOF VENTS</b>	Vents and accessories .....	94-97
<b>PAVING SLAB SUPPORTS</b>	Type PA 20 plus .....	98-100
	Shim .....	101-103
<b>Information</b>		
	Packing units .....	104-107
	General Terms of Delivery .....	108-109
	Information and additional delivery conditions .....	110

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- 7 Croatia
- 8 Czech Republic
- 9 France
- 10 Great Britain
- 11 Greece
- 12 Hong Kong
- 13 India
- 14 Italy
- 15 Luxembourg
- 16 Netherlands
- 17 Poland
- 18 Portugal
- 19 Singapore
- 20 Slovakia
- 21 Spain
- 22 Switzerland
- 23 Thailand
- 24 United Arab Emirates



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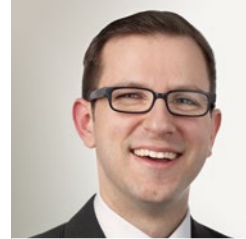
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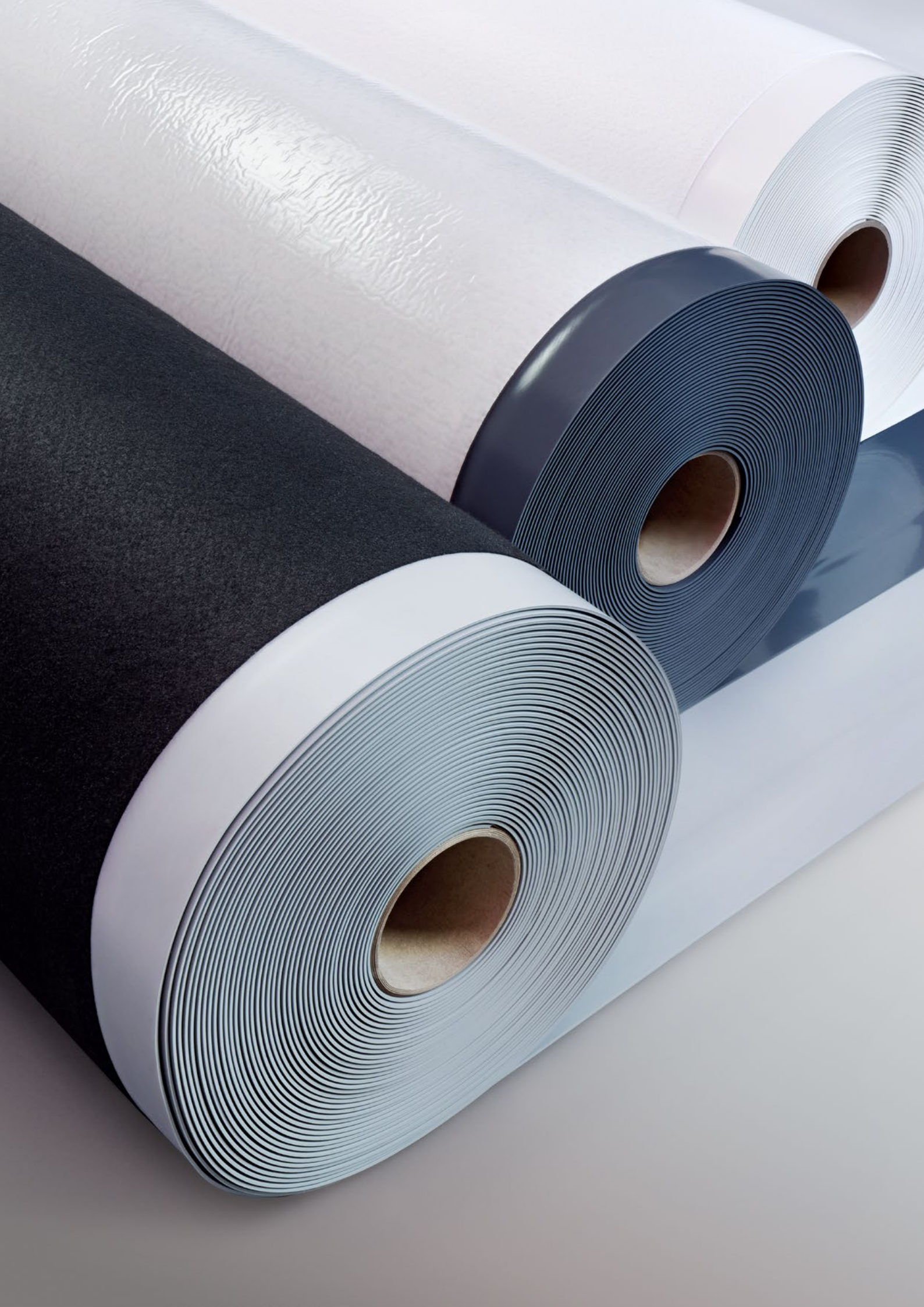
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# Waterproofing membranes

### EVALON® EVA waterproofing membranes, Certificate no. 1343 – CPR – K1562/03.14

	Product	Product specification	Dimension (m) Length <sup>1</sup> x Width	Colour	Thick- ness	€/m <sup>2</sup>
	<b>EVALON® V</b>	homogeneous sealing layer, with polyester fleece backing	25 x 1.05 (1.09) <sup>2</sup> 25 x 1.55 (1.59) <sup>2</sup> 25 x 2.05 <sup>3</sup>	white/ light grey/ slate grey	1.2 mm	<b>25.50</b>
					1.5 mm	<b>30.10</b>
	<b>EVALON® VG</b>	homogeneous sealing layer, with glass fleece / polyester fleece backing	25 x 1.05 (1.09) <sup>2</sup> 25 x 1.55 (1.59) <sup>2</sup>	white/ light grey/ slate grey	1.5 mm	<b>30.65</b>
			25 x 1.05	green/ brick red	1.5 mm	<b>33.40</b>
	<b>EVALON® VSK</b>	homogeneous sealing layer, with polyester fleece backing and self-adhesive coating	25 <sup>4</sup> x 1.05	light grey/ slate grey	1.2 mm	<b>29.60</b>
				white on request	1.5 mm	<b>34.15</b>
	<b>EVALON® VGSK</b>	homogeneous sealing layer, with glass fleece / polyester fleece backing and self-adhesive coating	25 <sup>4</sup> x 1.05	light grey/ slate grey  white on request	1.5 mm	<b>35.35</b>

<sup>1</sup> Surcharge for special lengths (at least 15 m) on request <sup>2</sup> with double seldvege <sup>3</sup> Membrane width 2.05 m only available in white / light grey <sup>4</sup> up to 5% short length quota









### EVALON® tapes (standard length 25 m)

Tape width	EVALON®					EVALON® V		EVALON® VG	EVALON® VSKA
	homogeneous					homogeneous sealing layer, with polyester fleece backing		homogeneous sealing layer, with polyester fleece /glass fleece backing	homogeneous sealing layer, with polyester fleece backing and self-adhesive coating
	white/light grey/slate grey	green/brick red		white/light grey/slate grey		white/light grey/slate grey		white/light grey/slate grey	light grey/slate grey, white on request
	€/m	€/m	€/m <sup>2</sup>	€/m <sup>2</sup>		€/m		€/m	€/m
	1.5 mm	1.5 mm	1.5 mm	1.2 mm	1.5 mm	1.2 mm	1.5 mm	1.5 mm	1.5 mm
16 cm	<b>4.80</b>	<b>5.20</b>	-	-	-	-	-	-	-
20 cm	<b>5.90</b>	<b>6.40</b>	-	-	-	-	-	-	-
25 cm	<b>7.20</b>	<b>7.85</b>	-	-	-	-	-	-	-
33 cm	<b>9.35</b>	<b>10.25</b>	-	-	-	-	-	-	<b>11.70<sup>1</sup></b>
43 cm	-	-	-	-	-	-	-	-	<b>15.10<sup>1</sup></b>
50 cm	<b>13.95</b>	<b>15.25</b>	-	-	-	-	-	-	-
54 cm	-	-	-	-	-	14.25	<b>16.70</b>	<b>17.00</b>	-
63 cm	-	-	-	-	-	-	-	-	<b>21.95<sup>1</sup></b>
66 cm	<b>18.25</b>	<b>20.05</b>	-	-	-	-	-	-	<b>23.00<sup>2</sup></b>
75 cm	<b>20.65</b>	<b>22.70</b>	-	-	-	-	-	-	-
79 cm	-	-	-	-	-	20.55	<b>24.25</b>	<b>24.75</b>	-
86 cm	-	-	-	-	-	-	-	-	<b>29.85<sup>2</sup></b>
105 cm	-	-	<b>29.75</b>	22.45	<b>26.95</b>	-	-	-	-
155 cm	-	-	-	22.45	<b>26.95</b>	-	-	-	-
126 cm	-	-	-	-	-	-	-	-	<b>43.10<sup>2</sup></b>



<sup>1</sup> with single selvedge (approx. 12.5 cm wide)

<sup>2</sup> with double selvedge (each approx. 12.5 cm wide)



### Adhesives / cleaner

	Product	Quantity	Packing unit/pallet	€/packing unit	€/tin
	<b>alwitra adhesive L 40</b>	25 kg 9.5 kg	<b>12 containers</b> <b>30 containers</b>	<b>19.30 €/kg</b> <b>20.80 €/kg</b>	<b>482.50</b> <b>197.60</b>
	<b>alwitra adhesive PUR S750</b>	750 ml	<b>12 tins</b> only full packing units at 12 tins/carton	<b>48.60 €/l</b>	<b>36.45</b>
	<b>alwitra foam gun</b> with 60 cm lance			<b>96.90 €/piece</b>	
	<b>alwitra membrane cleaner</b> not suitable for cleaning of the seam area!	2 kg		<b>22.60 €/kg</b>	<b>45.20</b>
	<b>alwitra cleaner L 40</b> (tool cleaner)	10 l		<b>14.90 €/l</b>	<b>149.00</b>
	<b>alwitra cleaner PUR S750</b>	500 ml		<b>28.90 €/l</b>	<b>14.45</b>

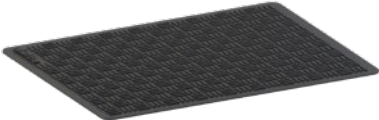
### Primer

	Product	Quantity	Packing unit/pallet	€/l	€/tin
	<b>alwitra primer SK-L</b> Solvent-based dispersion for pre-treatment of various substrates for bonding alwitra self-adhesive membranes EVALON® VSK, EVALON® VGSK and EVALON® VSKA.	25 l 10 l	<b>12 pieces</b> <b>42 pieces</b>	<b>20.15</b> <b>21.05</b>	<b>503.75</b> <b>210.50</b>
	<b>alwitra primer SK</b> Solvent-free dispersion for pre-treatment of various substrates for bonding alwitra self-adhesive membranes EVALON® VSK, EVALON® VGSK and EVALON® VSKA.	25 l 10 l	<b>12 pieces</b> <b>44 pieces</b>	<b>18.50</b> <b>19.40</b>	<b>462.50</b> <b>194.00</b>

### Solvent welding agent / liquid EVALON®


	Product	Quantity	Packing unit/pallet	€/l	€/tin
	<b>alwitra solvent welding agent</b> for seam welding of EVALON® membranes and for seam preparation of weathered resp. soiled alwitra waterproofing membranes	3.0 l	<b>12 pieces</b>	<b>40.75</b>	<b>122.25</b>
	<b>liquid EVALON®</b> white/light grey/slate grey	2.5 l	<b>4 pieces</b>	<b>49.75</b>	<b>124.40</b>

### EVALON® maintenance walkway tile<sup>1</sup>


	Product data	Packing unit	€/tile
	Length x Width: approx. 800 x 600 mm Area: 0.48 m <sup>2</sup> Surface: structured, bar height approx. 4 mm Total thickness: approx. 8.5 mm Colour: dark grey	<b>pallet at 200 plates or bundle at 5 tiles (minimum quantity: 1 bundle, complete units only)</b>	<b>30.20</b>

<sup>1</sup> Installation on EVALON® membranes only by gluing with EVATAK

### EVATAK glue and sealant cartridge, one component


	Product data	€/cartouche
	Volume: 290 ml / cartouche Consumption: approx. 90-100 ml/maintenance walkway tile Packaging unit: 24 pieces/carton	<b>22.35</b>

### EVALON® standing seam effect profile <sup>1</sup>

	Product data	Colour	€/m
	Length: 2.0 m	light grey/slate grey (other colours on request)	7.55
		green (other colours on request)	7.95

<sup>1</sup> Joint connections included

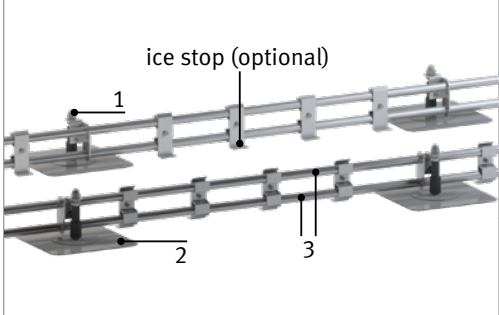
### alwitra solvent welding machine

	Product specification	Price
	solvent welding machine mobile	on request

### EVALON® prefabricated parts

	Product	Product specification	Colour	Ø internal	€/piece
	<b>Internal corner</b>	for parapets	white/light grey/slate grey, other colours on request		8.25
	<b>External corner</b>	for parapets	white/light grey/slate grey, other colours on request		8.25
	<b>Internal corner</b>	for roof edge trim profiles	white/light grey/slate grey, other colours on request		11.05
	<b>External corner</b>	for roof edge trim profiles	white/light grey/slate grey, other colours on request		11.05
	<b>Sleeve</b>	for penetrations incl. heat shrink tube	white/light grey/slate grey, other colours on request	Ø 50 mm	71.50
				Ø 80 mm	77.50
				Ø 110 mm	87.35
	<b>Sleeve</b>	for flash protection and cable penetration/ fall protection incl. heat shrink tube	white/light grey/slate grey, other colours on request	Ø 18 mm	31.00
				Ø 26 mm	34.90


### Snow guard profile

Scope of delivery	Price	
 <p>ice stop (optional)</p> <p>1</p> <p>2</p> <p>3</p>	<b>on request</b>	
		<b>1 Stainless steel pillar with retaining clip<sup>1</sup></b> with fasteners
		<b>2 EVALON® prefabricated part</b> with self-adhesive shrink tube and collar
<b>3 Stainless steel catching pipes,</b> 26.9 x 2 mm, 6.00 m (5.94 m) with plug-in system		

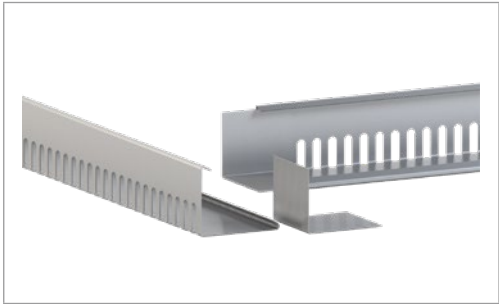
<sup>1</sup> Pillar distance: calculation according to snow load area and roof geometry

### alwitra stainless steel terrace profile

joint width depending on profile length and installation temperature

	<b>Temperature of profile</b> during installation	+5 °C	+10 °C	+20 °C	+30 °C
	<b>Joint width</b> per linear metre of profile length	1.4 mm	1.2 mm	1.0 mm	0.8 mm
	<b>Recommended minimum joint</b> width at 2.00 m profile length	2.8 mm	2.4 mm	2.0 mm	1.6 mm

### alwitra stainless steel terrace profile

	Product specification	Length	Bars/bundle	Price
	<b>Terrace profile 65</b> (stainless steel V4 A)	2 m	5	<b>on request</b>
	<b>Terrace profile 90</b> (stainless steel V4 A)	2 m	5	<b>on request</b>

0.5 joint connections per m are included.

**Note:** If slabs are laid on alwitra paving slab supports, the alwitra terrace profile made of stainless steel is not suitable as a so-called securing edges.

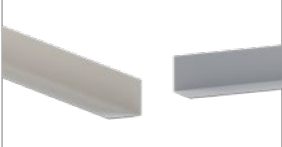
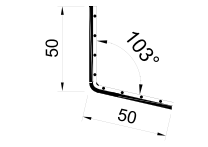
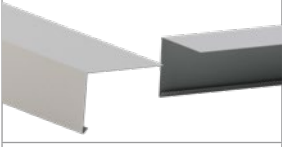
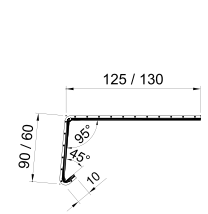
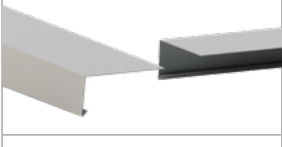

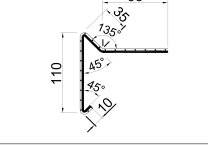
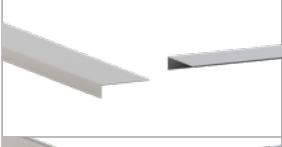
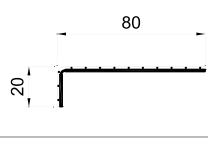

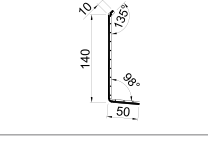
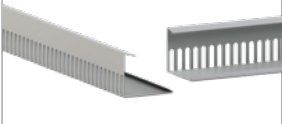
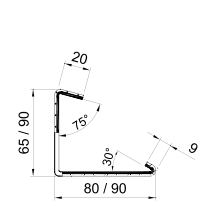
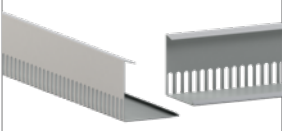
### EVALON® coated metal sheets <sup>1</sup>

Product specification	Dimensions (per sheet / per coil)	Colour	€/pallet	€/m <sup>2</sup>
<b>Pallet* at 10 sheets (20 m<sup>2</sup>)</b>	1 m x 2 m	white/ light grey/ slate grey	<b>990.00</b>	<b>49.50</b>
<b>Pallet* at 30 sheets (60 m<sup>2</sup>)</b>	1 m x 2 m		<b>2,781.00</b>	<b>46.35</b>
<b>Pallet* at 100 sheets (200 m<sup>2</sup>)</b>	1 m x 2 m		<b>8,630.00</b>	<b>43.15</b>
<b>Pallet* at 70 sheets (210 m<sup>2</sup>)</b>	1 m x 3 m		<b>9,061.50</b>	<b>43.15</b>
<b>Coils</b>	1 m x 30 m			<b>46.35</b>

<sup>1</sup> EVALON® coated stainless steel metal sheets V4A 1.4404-2B on request.

\* Only full pallet units per type and colour

### EVALON® coated metal sheet profiles (complete bundles only)

	Dimensions in mm	Type	Length	Colour	Bars/bundle	€/m
		<b>Perimeter fastening</b>	3 m	white/ light grey/ slate grey	10	<b>6.45</b>
		<b>Eaves flashing 90</b>	3 m	white/ light grey/ slate grey	10	<b>13.45</b>
		<b>Eaves flashing 60</b>				<b>12.10</b>
		<b>Edge trim profile</b>	3 m	white/ light grey/ slate grey	8	<b>15.80</b>
		<b>Edge trim angle</b>	3 m	white/ light grey/ slate grey	10	<b>6.45</b>
		<b>Wall flashing</b>	3 m	white/ light grey/ slate grey	10	<b>12.10</b>
		<b>Gravel stop 65 <sup>2</sup></b> (coated aluminium metal sheet)	2 m	white/ light grey/ slate grey	5	<b>28.30</b>
		<b>Gravel stop 90 <sup>2</sup></b>				<b>29.95</b>

<sup>2</sup> Gravel stops are not suitable for used roofs (e. g. balconies, terraces)

### alwitra installation tool set

Complete set

€/set



178.00

### alwitra seam checker

for seam checking

€/piece



10.45

### Hot air welding aid

Width: 15 cm; Roll length: 10 m, 25 m

€/m



13.15

### EVALASTIC® EPDM waterproofing membranes, CE-certificate no. 1343 – CPR – K1562/03.14

	Product	Product specification	Dimension (m) Length <sup>1</sup> x Width	Colour	Thick- ness	€/m <sup>2</sup>
	<b>EVALASTIC® V</b>	homogeneous sealing layer, with polyester fleece backing	25 x 1.05 (1.09) <sup>2</sup> 25 x 1.55 (1.59) <sup>2</sup>	light grey <sup>3</sup>	1.2 mm	<b>25.40</b>
					1.5 mm	<b>29.80</b>
	<b>EVALASTIC® VG</b>	homogeneous sealing layer, with glass fleece / polyester fleece backing	25 x 1.05 25 x 1.55	light grey <sup>3</sup>	1.5 mm	<b>33.15</b>
New colour: slate grey matt <b>NEW</b> 	<b>EVALASTIC® VG</b>	homogeneous sealing layer, with glass fleece / polyester fleece backing	25 x 1.05 25 x 1.55	slate grey matt <sup>3</sup>	1.5 mm	<b>33.15</b>
	<b>EVALASTIC® VGSK</b>	homogeneous sealing layer, with glass fleece / polyester fleece backing and self-adhesive coating	25 x 1.05	light grey <sup>3</sup>	1.5 mm	<b>37.25</b>
New colour: slate grey matt <b>NEW</b> 	<b>EVALASTIC® VGSK</b>	homogeneous sealing layer, with glass fleece / polyester fleece backing and self-adhesive coating	25 x 1.05	slate grey matt <sup>3</sup>	1.5 mm	<b>37.25</b>

<sup>1</sup> Surcharge for special lengths (at least 15 m) on request

<sup>2</sup> with double selvedge (only for 1.5 mm)

<sup>3</sup> other colours, for example black on request



### EVALASTIC® tapes (standard length 25 m)

Tape width	EVALASTIC®			EVALASTIC® V		EVALASTIC® VSKA
	homogeneous			homogeneous sealing layer with polyester fleece backing		homogeneous sealing layer with polyester fleece backing and self-adhesive coating
	light grey / slate grey matt <sup>1</sup>			light grey / slate grey matt <sup>1</sup>		light grey / slate grey matt <sup>1</sup>
	€/m	€/m <sup>2</sup>		€/m		€/m
	1.5 mm	1.2 mm <sup>2</sup>	1.5 mm	1.2 mm <sup>2</sup>	1.5 mm	1.5 mm
16 cm	4.75	-	-	-	-	-
20 cm	5.80	-	-	-	-	-
25 cm	7.15	-	-	-	-	-
33 cm	9.30	-	-	-	-	12.00 <sup>3</sup>
43 cm	-	-	-	-	-	15.30 <sup>3</sup>
50 cm	13.90	-	-	-	-	-
54 cm	-	-	-	14.20	16.90	-
66 cm	18.15	-	-	-	-	22.45 <sup>4</sup>
75 cm	20.50	-	-	-	-	-
79 cm	-	-	-	20.50	24.60	-
86 cm	-	-	-	-	-	29.30 <sup>4</sup>
105 cm	-	22.35	26.75	-	-	-
155 cm	-	22.35	26.75	-	-	-







<sup>1</sup> other colours, for example black on request

<sup>2</sup> available in light grey, other colours on request



<sup>3</sup> with single selvedge (approx. 12.5 cm wide)

<sup>4</sup> with double selvedge (each approx. 12.5 cm wide)

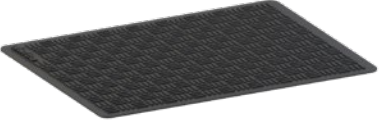
### Adhesives / cleaner

	Product	Quantity	Packing unit/pallet	€/packing unit	€/tin
	<b>alwitra adhesive L 40</b>	25 kg 9.5 kg	<b>12 containers</b> <b>30 containers</b>	<b>19.30 €/kg</b> <b>20.80 €/kg</b>	<b>482.50</b> <b>197.60</b>
	<b>alwitra adhesive PUR S750</b>	750 ml	<b>12 tins</b> only full packing units at 12 tins/carton	<b>48.60 €/l</b>	<b>36.45</b>
	<b>alwitra foam gun</b> with 60 cm lance			<b>96.90 €/piece</b>	
	<b>alwitra membrane cleaner</b> not suitable for cleaning of the seam area!	2 kg		<b>22.60 €/kg</b>	<b>45.20</b>
	<b>alwitra cleaner L 40</b> (tool cleaner)	10 l		<b>14.90 €/l</b>	<b>149.00</b>
	<b>alwitra cleaner PUR S750</b>	500 ml		<b>28.90 €/l</b>	<b>14.45</b>


### Primer

	Product	Quantity	Packing unit/pallet	€/l	€/tin
	<b>alwitra primer SK-L</b> Solvent-based dispersion for pre-treatment of various substrates for bonding alwitra self-adhesive membranes EVALASTIC® VGSK and EVALASTIC® VSKA.	25 l 10 l	<b>12 pieces</b> <b>42 pieces</b>	<b>20.15</b> <b>21.05</b>	<b>503.75</b> <b>210.50</b>
	<b>alwitra primer SK</b> Solvent-free dispersion for pre-treatment of various substrates for bonding alwitra self-adhesive membranes EVALASTIC® VGSK and EVALASTIC® VSKA.	25 l 10 l	<b>12 pieces</b> <b>44 pieces</b>	<b>18.50</b> <b>19.40</b>	<b>462.50</b> <b>194.00</b>

### EVALASTIC® maintenance walkway tile

	Product data	Packing unit	€/tile
	Length x Width: approx. 800 x 600 mm Area: 0.48 m <sup>2</sup> Surface: structured, bar height approx. 4 mm Total thickness: approx. 8.5 mm Colour: dark grey	<b>pallet at 200 plates or bundle at 5 tiles (minimum quantity: 1 bundle, complete units only)</b>	<b>32.00</b>

### EVALASTIC® standing seam effect profile <sup>1</sup>

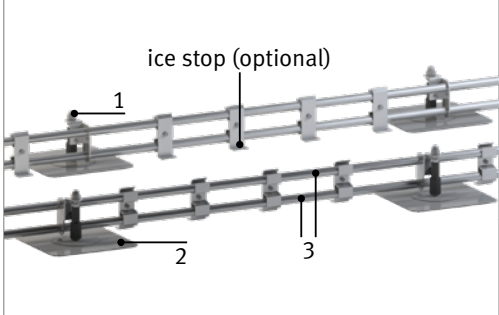
	Product data	Colour	€/m
	Length: 2.0 m	light grey / slate grey matt (other colours on request)	8.85

<sup>1</sup> Joint connections included

### EVALASTIC® prefabricated parts

	Product	Product specification	Colour	Ø internal	€/piece
	<b>Internal corner</b>	for parapets	light grey / slate grey matt		8.25
	<b>External corner</b>	for parapets	light grey / slate grey matt		8.25
	<b>Internal corner</b>	for roof edge trim profiles	light grey / slate grey matt		11.15
	<b>External corner</b>	for roof edge trim profiles	light grey / slate grey matt		11.15
	<b>Sleeve</b>	for penetrations incl. heat shrink tube	light grey / slate grey matt	Ø 50 mm	70.00
				Ø 80 mm	78.50
				Ø 110 mm	86.25
	<b>Sleeve</b>	for flash protection and cable penetration/fall protection incl. heat shrink tube	light grey / slate grey matt	Ø 18 mm	30.80
				Ø 26 mm	34.70

### Snow guard profile

Scope of delivery	Price
	<p><b>1 Stainless steel pillar with retaining clip<sup>1</sup></b> with fasteners</p> <p><b>2 EVALASTIC® prefabricated part</b> with self-adhesive shrink tube and collar</p> <p><b>3 Stainless steel catching pipes,</b> 26.9 x 2 mm, 6.00 m (5.94 m) with plug-in system</p> <p style="text-align: right;"><b>on request</b></p>

<sup>1</sup> Pillar distance: calculation according to snow load area and roof geometry

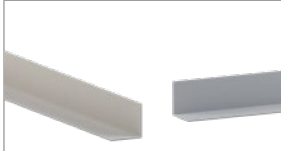
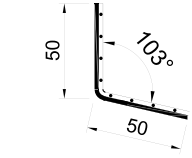
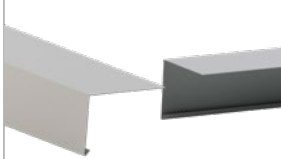
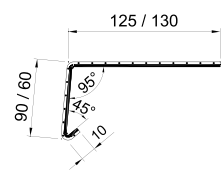
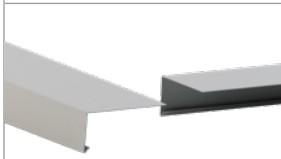
### EVALASTIC® coated metal sheets<sup>2</sup>

Product specification	Dimensions (per sheet / per coil)	Colour	€/pallet	€/m <sup>2</sup>
<b>Pallet* at 10 sheets (20 m<sup>2</sup>)</b>	1 m x 2 m	light grey / slate grey matt	<b>978.00</b>	<b>48.90</b>
<b>Pallet* at 30 sheets (60 m<sup>2</sup>)</b>	1 m x 2 m		<b>2,829.00</b>	<b>47.15</b>
<b>Coils</b>	1 m x 30 m		<b>45.10</b>	

<sup>2</sup> EVALASTIC® coated stainless steel metal sheets V4A 1.4404-2B on request

\* Minimum order quantity: 10 sheets; by not ordering full packing units: packing surcharge of 30.00 €

### EVALASTIC® coated metal sheet profiles (complete bundles only)

	Dimensions in mm	Type	Length	Colour	Bars/bundle	€/m
		<b>Perimeter fastening</b>	2 m	light grey / slate grey matt	5	<b>8.20</b>
		<b>Eaves flashing 90</b>	2 m	light grey / slate grey matt	5	<b>16.75</b>
		<b>Eaves flashing 60</b>				<b>14.95</b>



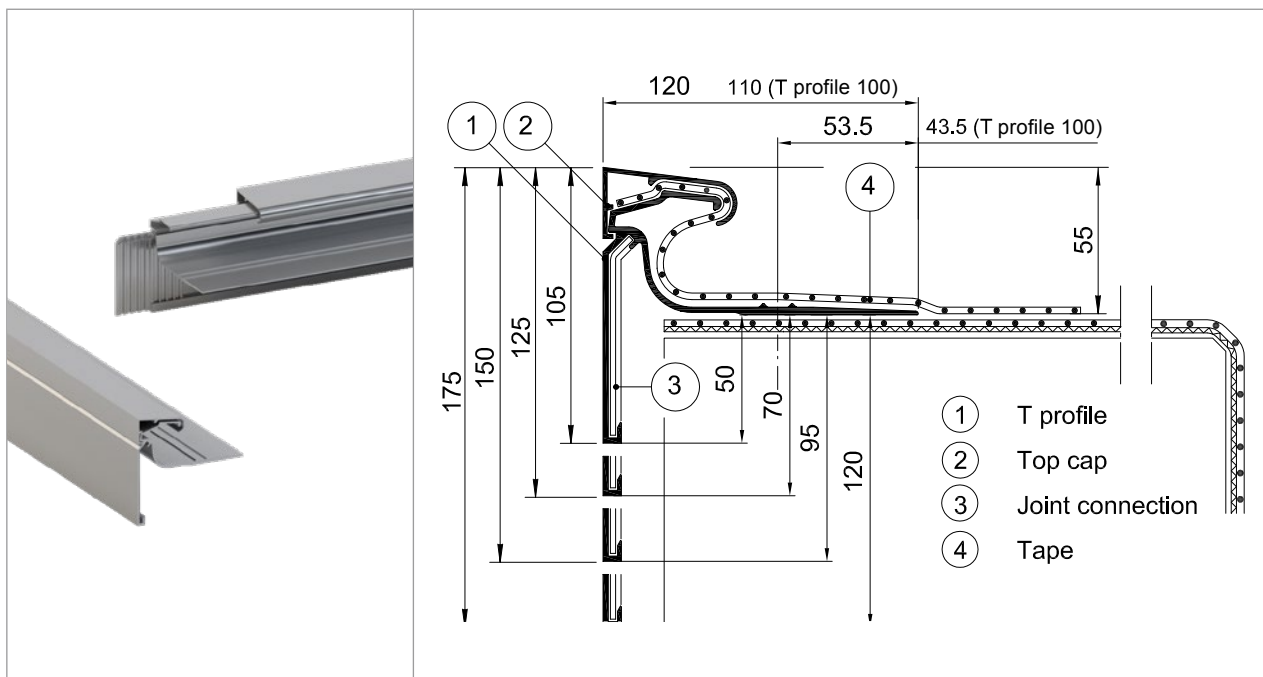
# Roof edge trim profiles



## T plus, TW 125 plus

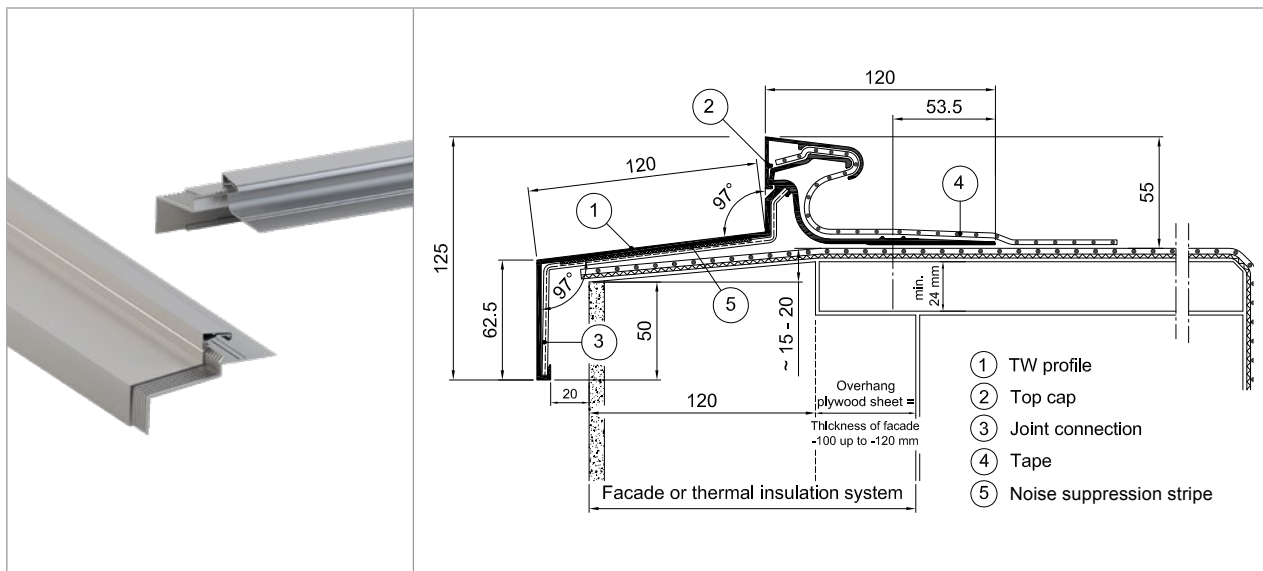
### Roof edge trim profile T plus

Profile nominal height: 100, 125, 150 or 175 mm



### Roof edge trim profile TW 125 plus

Profile nominal height: 125 mm



### Top cap

Standard top cap	Large top cap	Top cap for bitumen sheet
Waterproofing membrane 1.5 mm	Waterproofing membrane up to 2.5 mm	Polymer bitumen sheet



## T plus, TW 125 plus

### Roof edge trim profile T plus, 2-parts

Profile nominal height	Packing unit	Mill finish <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Closed stop end mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end / corner surcharge <sup>3</sup>	Additional demand joint connection
mm	bars x m	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
100	6 x 5	<b>33.85</b>	<b>13.50</b>	<b>59.10</b>	<b>11.90</b>	<b>25.70</b>	45.55	<b>6.50</b>	<b>2.40</b>
125	4 x 5	<b>38.25</b>	<b>13.90</b>	<b>64.95</b>	<b>12.10</b>	<b>25.70</b>	49.65	<b>6.50</b>	<b>2.65</b>
150	4 x 5	<b>43.55</b>	<b>14.30</b>	<b>67.95</b>	<b>12.25</b>	<b>25.70</b>	50.50	<b>6.50</b>	<b>3.00</b>
175	4 x 5	<b>48.80</b>	<b>14.70</b>	<b>70.55</b>	<b>12.40</b>	<b>25.70</b>	51.00	<b>6.50</b>	<b>3.55</b>

#### Scope of delivery

per m profile	per 90° corner
0.2 bars T profile at 5.00 m, 6 x 8 mm slotted holes in e = 250 mm 0.4 bars top cap at 2.50 m 0.2 joint connection	T profile corner, (20/20 cm) Top cap miter for corners at (26.5/26.5 cm), Top cap for bitumen membrane (50/50 cm) 2 joint connection

### Roof edge trim profile TW 125 plus, 2-parts

Profile nominal height	Packing unit	Mill finish <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Closed stop end/wall abutment mill finish <sup>4</sup>	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end / wall abutment corner surcharge	Additional demand joint-connection
mm	bars x m	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
125	4 x 2.5	<b>61.60</b>	<b>18.15</b>	<b>100.50</b>	<b>24.70</b>	<b>68.10</b>	61.05	<b>13.05</b>	<b>7.90</b>

#### Scope of delivery

per m profile	per 90° corner
0.4 bars TW 125 at 2.50 m, 6 x 8 mm slotted holes in e = 250 mm 0.4 bars top cap at 2.50 m 0.4 joint connection 1.0 noise suppression stripe	Edge trim profile corner TW (external / internal corner, ready for assembly, 32/32 cm; front view of the internal corner 8/8 cm) Top cap miter for corners at (26.5/26.5 cm), Top cap for bitumen membrane (50/50 cm) 2 joint connection

### Tape

Width	EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
cm	€/m	€/m
25	<b>7.20</b>	<b>7.15</b>

### Prefabricated pieces

(for connection of 90° standard external / internal corners)

EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
€/piece	€/piece
<b>11.05</b>	<b>11.15</b>

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

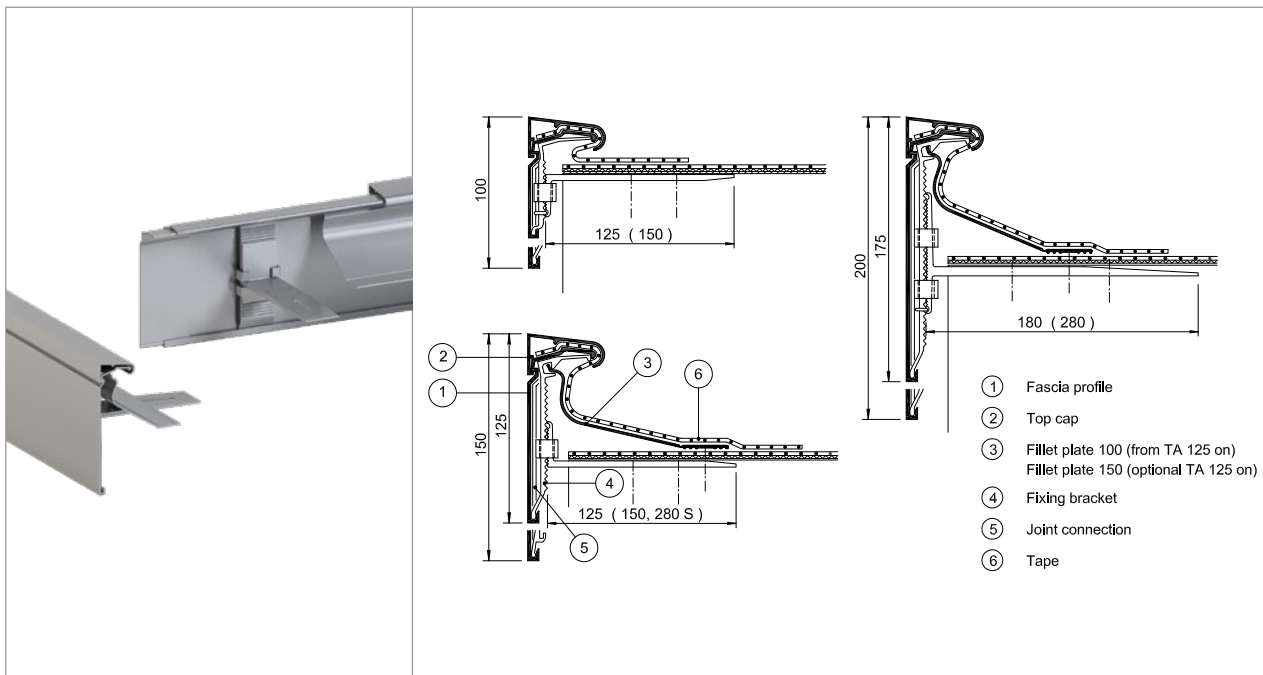
<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

<sup>4</sup> Stop ends / wall abutments welded on profile bar, length 0.32 m;

inclusive 0.385 m top cap, 0.30 m noise suppression stripe and 1 piece joint connection

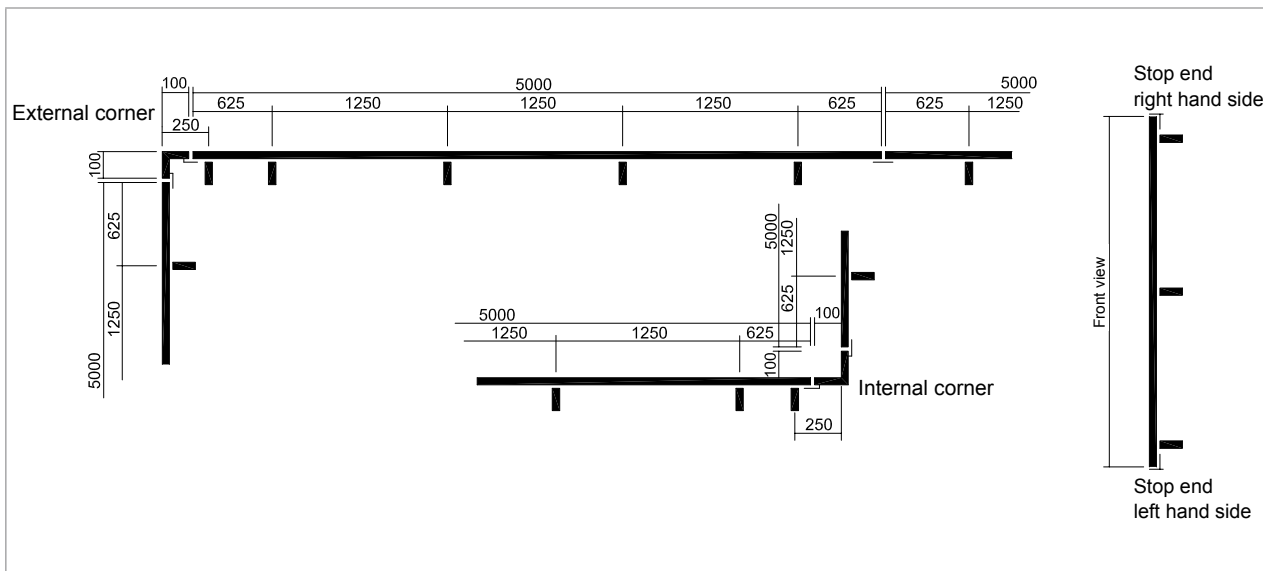
## Roof edge trim profile TA

Profile nominal height: 100, 125, 150, 175 or 200 mm



## Fixing bracket position for building height up to 20 m

For buildings in wind zone WZ 3 + WZ 4, exposed location, building height over 20 m, additional fixing brackets are required (according to DIN EN 1991-1-4).



## Top cap

Standard top cap	Large top cap	Top cap for bitumen sheet (starting from TA 125)
Waterproofing membrane 1.5 mm	Waterproofing membrane up to 2.5 mm	Polymer bitumen sheet

### Roof edge trim profile TA, multipart

Profile nominal height	Packing unit	Mill finish <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Closed stop end mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end / corner surcharge <sup>3</sup>	Additional demand fixing bracket	Additional demand joint-connection
mm	bars x m	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
100	14 x 5	32.35	13.50	54.50	9.20	25.70	48.00	6.50	6.40	2.20
125	14 x 5	39.05	13.90	58.30	9.30	25.70	50.45	6.50	6.70	2.35
150	7 x 5	41.60	14.30	61.15	9.40	25.70	52.80	6.50	6.95	2.55
175	7 x 5	47.45	14.70	69.20	9.45	25.70	59.70	6.50	9.80	2.65
200	7 x 5	53.45	15.90	77.00	9.70	25.70	66.30	6.50	11.80	3.10

Surcharge	Product specification	€/m	€/corner
<b>Surcharge for fillet plate</b>	150 mm	6.85	-
<b>Surcharge for extended fixing brackets</b>	Fixing bracket 150 (TA 100-150)	0.20	0.20
	Fixing bracket 280 S (TA 125-150)	3.45	4.25
	Fixing bracket 280 (TA 175-200)	1.80	2.25

Scope of delivery (for building height up to 20 m in non-exposed locations, wind zone 1 + 2)	
per m profile *	per 90° corner
0.2 bars front profile at 5.00 m 0.4 bars top cap at 2.50 m 0.4 bars fillet plate at 2.50 m (from TA 125 on) 0.2 joint connection 0.8 fixing brackets	Edge trim profile corner (10/10 cm) 2 welded corner joint connections Top cap miter for corners at (26.5/26.5 cm) Top cap for bitumen membrane (50/50 cm) 1 fixing bracket

\* per roof edge 1 additional piece of fixing brackets is required

### Tape

	Width	EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
	cm	€/m	€/m
<b>without fillet plate</b>	16	4.80	4.75
<b>without fillet plate</b>	20	5.90	5.80
<b>Fillet plate 100</b>	25	7.20	7.15
<b>Fillet plate 150</b>	33	9.35	9.30

### Prefabricated pieces

(for connection of 90° standard external / internal corners)

EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
€/piece	€/piece
11.05	11.15

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

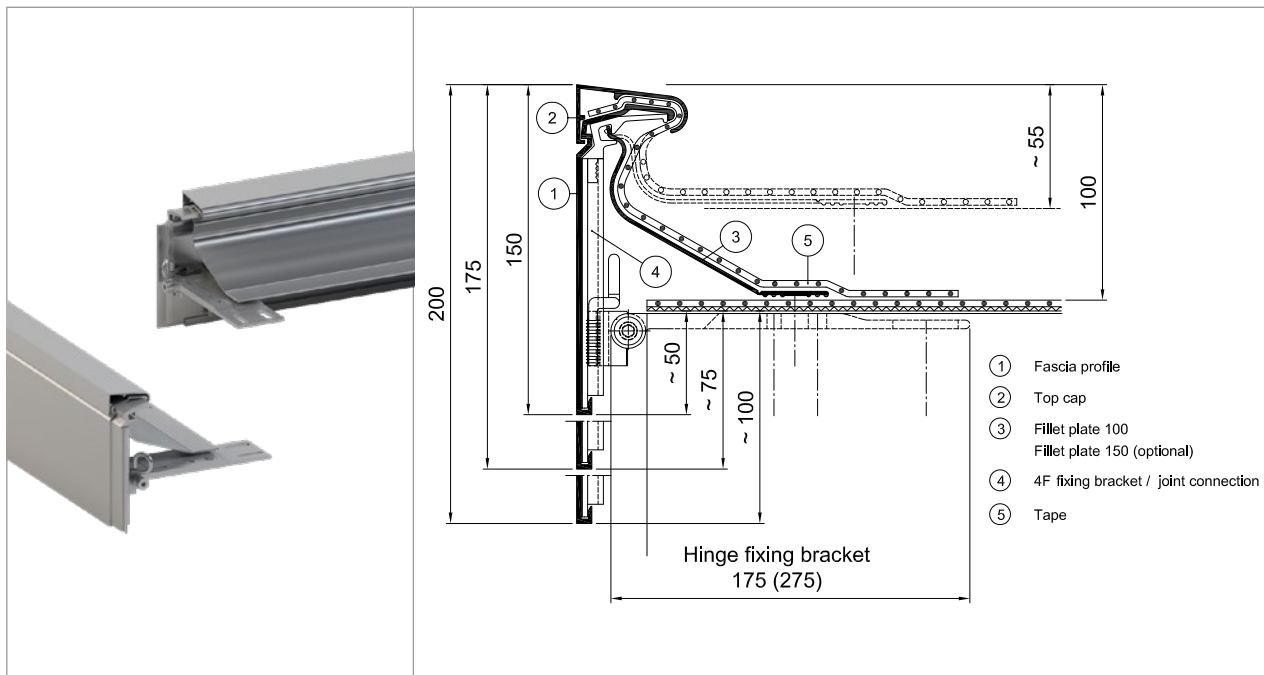
<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

## TA-4F

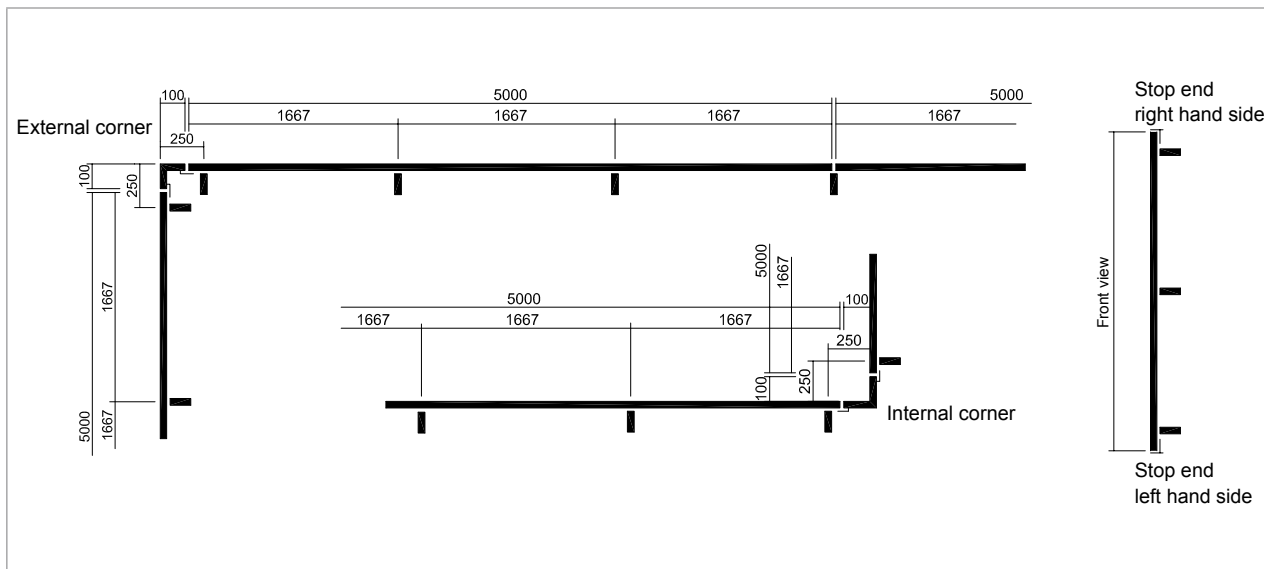
### Roof edge trim profile TA-4F

Profile nominal height: 150, 175 or 200 mm



### Fixing bracket position for building height up to 20 m

For buildings in wind zone WZ 3 + WZ 4, exposed location, building height over 20 m, additional fixing brackets are required (according to DIN EN 1991-1-4).



### Top cap

Standard top cap	Large top cap	Top cap for bitumen sheet
Waterproofing membrane 1.5 mm	Waterproofing membrane up to 2.5 mm	Polymer bitumen sheet

### Roof edge trim profile TA-4F, multipart

Profile nominal height	Packing unit	Mill finish <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Closed stop end mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end/corner surcharge <sup>3</sup>	Additional demand 4F fixing bracket/joint-connection
mm	bars x m	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
150	7 x 5	53.10	14.30	63.45	9.40	25.70	52.80	6.50	29.15
175	7 x 5	57.55	14.70	71.25	9.45	25.70	59.70	6.50	30.75
200	7 x 5	61.15	15.90	78.55	9.70	25.70	66.30	6.50	31.65

Surcharge	€/m	€/piece	€/corner
Surcharge for fillet plate 150 mm	6.85	-	-
Surcharge for extended fixing brackets (275 mm)	6.60	-	11.00
Special inbus key for fixation of 4F fixing bracket	-	7.05	-

### Scope of delivery (for building height up to 20 m in non-exposed locations, wind zone 1 + 2)

per m profile *	per 90° corner
0.2 bars front profile at 5.00 m 0.4 bars top cap at 2.50 m 0.2 bars fillet plate at 5.00 m 0.6 4F fixing brackets/joint connections	Edge trim profile corner (10/10 cm) 2 welded corner joint connections Top cap miter for corners at (26.5/26.5 cm), Top cap for bitumen membrane (50/50 cm) 1 4F fixing bracket/joint connection

\* per roof edge 1 additional piece of fixing brackets is required

### Tape

	Width	EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
	cm	€/m	€/m
Fillet plate 100	25	7.20	7.15
Fillet plate 150	33	9.35	9.30

### Prefabricated pieces

(for connection of 90° standard external / internal corners)

EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
€/piece	€/piece
11.05	11.15

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

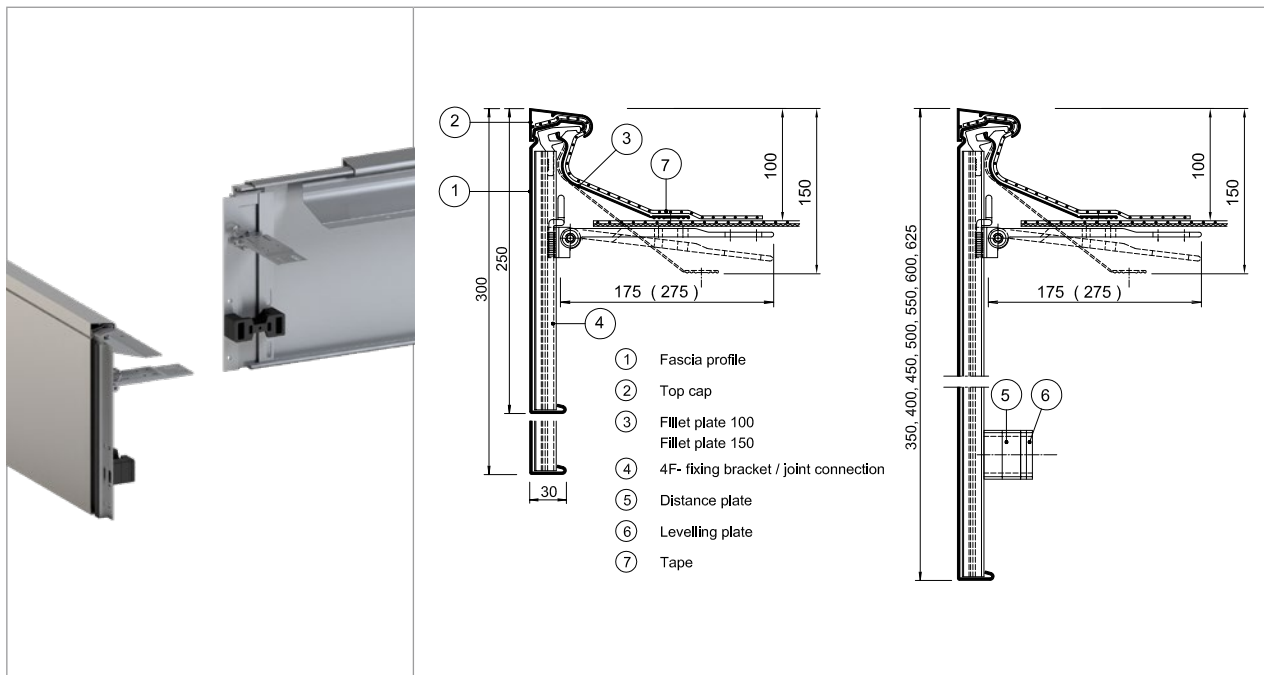
<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

## TAG 250 – 625

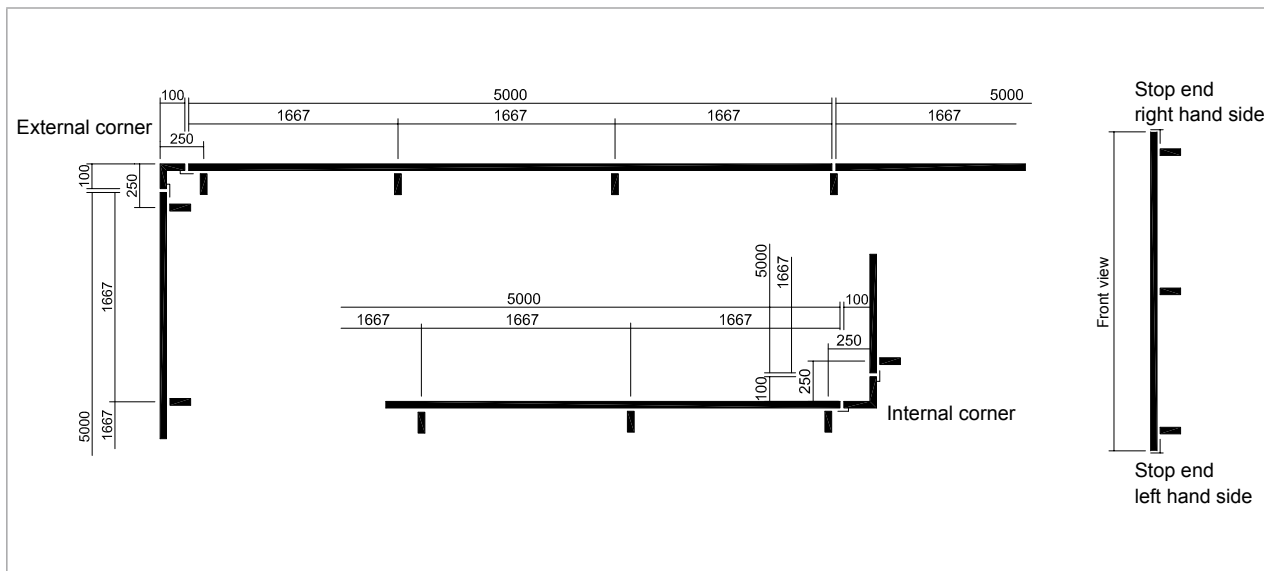
### Roof edge trim profile TAG 250 – 625

Profile nominal height: 250, 300, 350, 400, 450, 500, 550, 600 or 625 mm



### Fixing bracket position for building height up to 20 m

For buildings in wind zone WZ 3 + WZ 4, exposed location, building height over 20 m, additional fixing brackets are required (according to DIN EN 1991-1-4).



### Top cap

Standard top cap	Large top cap	Top cap for bitumen sheet
Waterproofing membrane 1.5 mm	Waterproofing membrane up to 2.5 mm	Polymer bitumen sheet

### Roof edge trim profile TAG 250 – 625, multipart

Profile nominal height	Mill finish 2.0 mm protection foiled <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Closed stop end mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end/ corner surcharge <sup>3</sup>	Additional demand 4F fixing bracket/joint-connection
mm	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
250	71.20	19.75	77.70	13.25	27.90	63.45	9.30	28.45
300	76.30	21.90	84.55	13.70	32.25	69.25	9.30	29.35
350	88.30	23.10	101.60	15.00	40.65	83.90	10.35	36.95
400	96.80	23.65	110.50	15.10	45.50	91.10	10.35	39.20
450	101.50	25.40	115.35	16.55	50.50	95.05	11.45	40.55
500	108.20	26.85	120.25	16.85	54.85	98.60	11.45	42.30
550	113.30	28.70	132.00	18.35	60.50	109.30	12.60	44.00
600	118.60	29.95	142.15	18.60	65.75	118.40	12.60	45.75
625	124.70	31.30	149.70	18.90	70.75	124.75	12.60	47.50

Surcharge	€/m	€/piece	€/corner
Surcharge for fillet plate 150 mm	6.85	-	-
Surcharge for extended fixing brackets (275 mm)	6.60	-	11.00
Special inbus key for fixation of 4F fixing bracket	-	7.05	-

Scope of delivery TAG 250 – 625 (for building height up to 20 m in non-exposed locations, wind zone 1 + 2)	
per m profile *	per 90° corner
0.2 bars front profile at 5.00 m 0.4 bars top cap at 2.50 m 0.2 bars fillet plate at 5.00 m 0.6 4F fixing brackets / joint connections 1.2 distance plates (for TAG 350 – 625) 1.2 levelling plates (for TAG 350 – 625)	Edge trim profile corner (10/10 cm) 2 welded corner joint connections Top cap miter for corners at (26.5/26.5 cm), Top cap for bitumen membrane (50/50 cm) 1 4F fixing bracket / joint connection 2 distance plates (for TAG 350 – 625) 2 levelling plates (for TAG 350 – 625)

\* per roof edge 1 additional piece of 4F fixing brackets is required

### Tape

	Width	EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
	cm	€/m	€/m
Fillet plate 100	25	7.20	7.15
Fillet plate 150	33	9.35	9.30

### Prefabricated pieces

(for connection of 90° standard external / internal corners)

EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
€/piece	€/piece
11.05	11.15

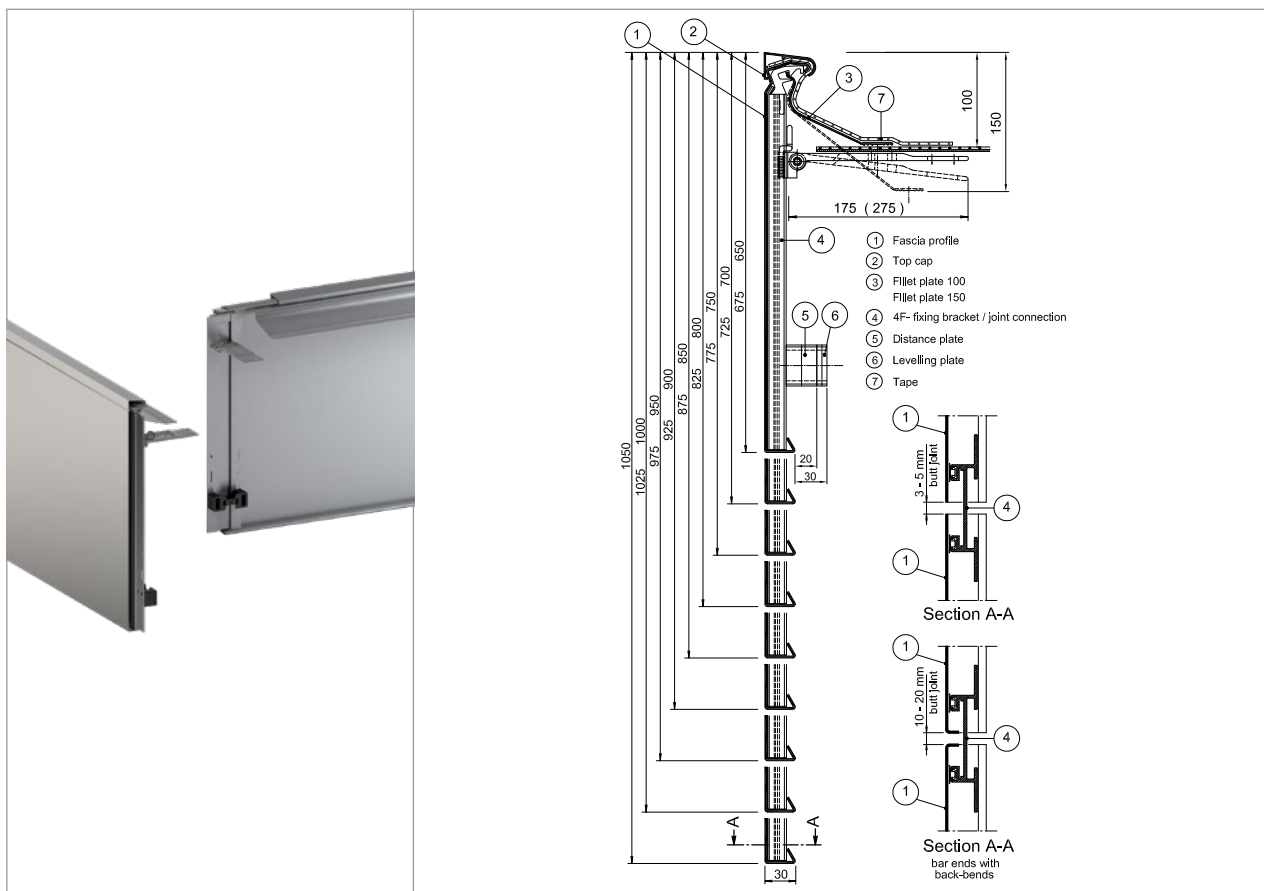
<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

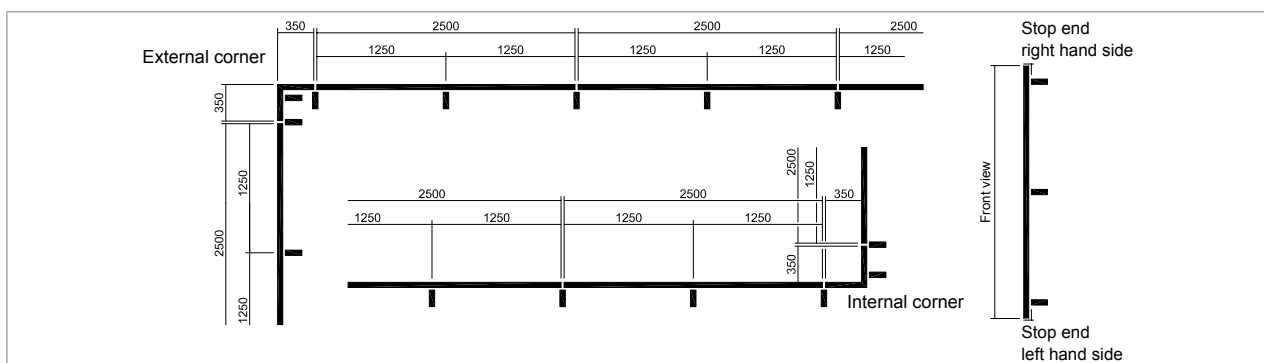
<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

### Roof edge trim profile TAG 650 – 1050

Profile nominal height: 650, 675, 700, .... 1025 or 1050 mm



The illustration shows the bracket placement according to the standard scope of delivery. The required number of brackets depends on the height of the building, the wind load zone and the terrain category and must be specified for each individual project.



### Top cap

Standard top cap	Large top cap	Top cap for bitumen sheet
Waterproofing membrane 1.5 mm	Waterproofing membrane up to 2.5 mm	Polymer bitumen sheet



### Roof edge trim profile TAG 650 – 1050, multipart

Profile nominal height	Mill finish 2.0 mm protection foiled <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge Colour coating corner complete	Closed stop end mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge Colour coating stop end/ corner surcharge <sup>3</sup>	Additional demand 4F fixing bracket/joint-connection
mm	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
650	142.25	36.95	232.80	39.65	76.45	133.20	13.75	49.15
675	148.40	37.95	240.95	40.35	79.20	137.05	13.75	50.05
700	156.60	38.95	250.35	41.05	81.85	140.70	13.75	51.00
725	160.80	39.90	257.15	41.70	84.55	144.55	13.75	52.20
750	164.75	40.95	263.70	42.45	87.25	148.35	13.75	52.70
775	168.95	41.80	270.85	43.05	90.00	152.55	13.75	53.00
800	172.95	42.80	277.20	43.75	92.65	156.10	13.75	54.45
825	177.10	43.75	284.20	44.40	95.40	160.20	13.75	54.60
850	181.30	44.85	290.65	45.15	97.90	163.70	13.75	56.20
875	186.65	45.75	298.55	45.80	100.65	167.85	13.75	56.35
900	192.10	47.05	305.75	46.70	103.30	171.25	13.75	57.95
925	196.90	48.05	313.20	47.40	106.30	175.35	13.75	58.15
950	201.85	48.95	320.35	48.05	108.60	179.05	13.75	59.65
975	207.70	50.05	328.35	48.80	111.50	182.95	13.75	59.85
1,000	213.70	51.00	336.70	49.45	114.05	187.10	13.75	60.05
1,025	219.45	51.95	344.80	50.15	116.55	191.15	13.75	60.80
1,050	225.40	52.95	352.10	50.85	119.20	194.30	13.75	63.10

Surcharge	€/m	€/bar	€/piece	€/corner
<b>Surcharge for fillet plate 150 mm</b>	<b>6.85</b>	-	-	-
<b>Surcharge for extended fixing brackets (275 mm)</b>	<b>8.80</b>	-	-	<b>22.00</b>
<b>Surcharge for back-edging at bar-ends</b>	-	<b>24.85</b>	-	<b>38.20</b>
<b>Special inbus key</b> for fixation of 4F fixing bracket	-	-	<b>7.05</b>	-

Scope of delivery TAG 650 – 1050 (additional brackets may be required project related)	
per m profile *	per 90° corner
0.4 bars front profile at 2.50 m 0.4 bars top cap at 2.50 m 0.4 bars fillet plate at 2.50 m 0.8 4F fixing brackets/joint connections 1.6 distance plates 1.6 levelling plates	Edge trim profile corner (35/35 cm) Top cap miter for corners at (26.5/26.5 cm), Top cap for bitumen membrane (50/50 cm) 2 4F fixing brackets/joint connections 4 distance plates 4 levelling plates

\* per roof edge 1 additional piece of 4F fixing brackets is required

Tape			
	Width	EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
	cm	€/m	€/m
<b>Fillet plate 100</b>	25	<b>7.20</b>	<b>7.15</b>
<b>Fillet plate 150</b>	33	<b>9.35</b>	<b>9.30</b>

Prefabricated pieces (for connection of 90° standard external / internal corners)	
EVALON® 1.5 mm homogeneous	EVALASTIC® 1.5 mm homogeneous
€/piece	€/piece
<b>11.05</b>	<b>11.15</b>


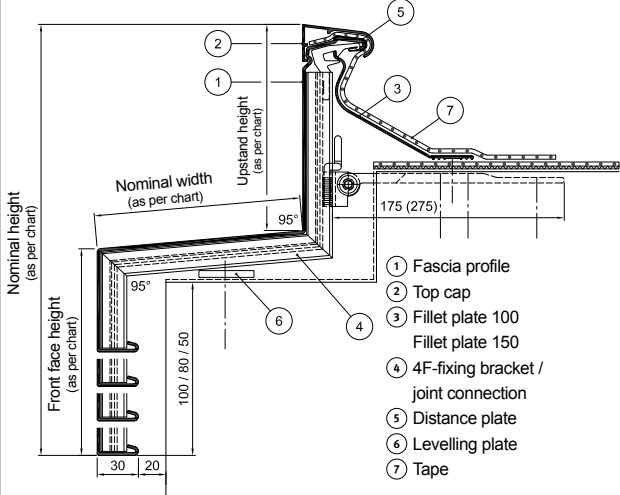
<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

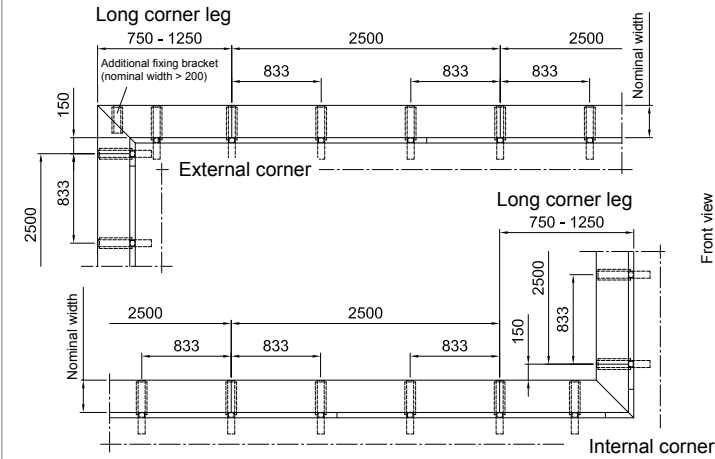
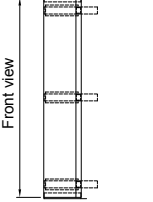
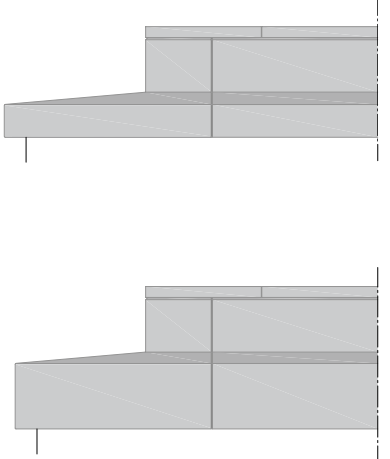
### Roof edge trim profile art-line 1

Profile nominal height: 240 to 280 mm, see table page 35

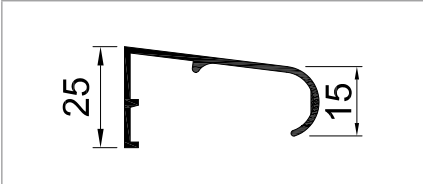
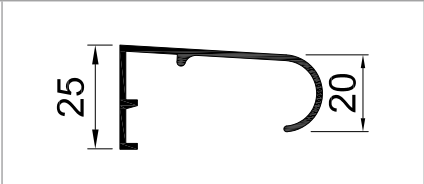
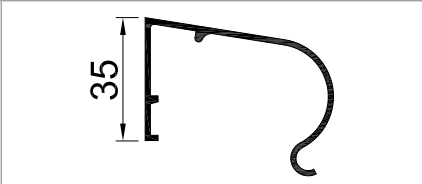
		Profile options art-line 1																				
	 <p>1 Fascia profile 2 Top cap 3 Fillet plate 100 Fillet plate 150 4 4F-fixing bracket / joint connection 5 Distance plate 6 Levelling plate 7 Tape</p>	<table border="1"> <tr> <td>175/75/150</td> <td>150/100/150</td> <td>150/125/125</td> <td>150/150/100</td> </tr> <tr> <td>225/75/150</td> <td>200/100/150</td> <td>200/125/125</td> <td>200/150/100</td> </tr> <tr> <td>275/75/150</td> <td>250/100/150</td> <td>250/125/125</td> <td>250/150/100</td> </tr> <tr> <td>325/75/150</td> <td>300/100/150</td> <td>300/125/125</td> <td>300/150/100</td> </tr> <tr> <td>375/75/150</td> <td>350/100/150</td> <td>350/125/125</td> <td>350/150/100</td> </tr> </table>	175/75/150	150/100/150	150/125/125	150/150/100	225/75/150	200/100/150	200/125/125	200/150/100	275/75/150	250/100/150	250/125/125	250/150/100	325/75/150	300/100/150	300/125/125	300/150/100	375/75/150	350/100/150	350/125/125	350/150/100
		175/75/150	150/100/150	150/125/125	150/150/100																	
		225/75/150	200/100/150	200/125/125	200/150/100																	
		275/75/150	250/100/150	250/125/125	250/150/100																	
		325/75/150	300/100/150	300/125/125	300/150/100																	
375/75/150	350/100/150	350/125/125	350/150/100																			

### Fixing bracket position for building height up to 20 m

For buildings in wind zone WZ 3 + WZ 4, exposed location, building height over 20 m, additional fixing brackets are required possibly (according to DIN EN 1991-1-4).

		Front face (external corner)
 <p>Long corner leg 750 - 1250 Additional fixing bracket (nominal width &gt; 200) External corner Long corner leg 750 - 1250 Internal corner</p>	 <p>Stop end / wall abutment right hand side Stop end / wall abutment left hand side</p>	

### Top cap

Standard top cap	Large top cap	Top cap for bitumen sheet
Waterproofing membrane 1.5 mm	Waterproofing membrane up to 2.5 mm	Polymer bitumen sheet
		

### Roof edge trim profile art-line 1, multipart

Profile nominal height	Mill finish 2.0 mm protection foiled <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	Closed stop end wall abutment mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating corner/stop end/wall abutment	Additional demand 4F fixing bracket/joint connection
mm	€/m	€/m	€/piece	€/piece	€/piece	€/piece
240 263	<b>169.80</b>	<b>27.40</b>	<b>50.05</b>	140.75	<b>16.85</b>	<b>66.30</b>
245 267	<b>174.10</b>	<b>29.85</b>	<b>55.45</b>	156.35	<b>16.85</b>	<b>77.20</b>
249 272	<b>177.35</b>	<b>31.55</b>	<b>60.30</b>	174.70	<b>16.85</b>	<b>79.00</b>
253 276	<b>184.70</b>	<b>33.55</b>	<b>66.65</b>	193.75	<b>19.65</b>	<b>80.60</b>
258 280	<b>193.35</b>	<b>34.85</b>	<b>72.30</b>	212.30	<b>19.65</b>	<b>84.55</b>

Order information: art-line 1 nominal width / front face height / abument height

Other dimensions and shapes on request

Surcharge	€/m	€/piece	€/corner
<b>Surcharge for fillet plate 150 mm</b>	<b>6.85</b>	-	-
<b>Surcharge for extended fixing brackets (275 mm)</b>	<b>13.20</b>	-	<b>22.00</b>
<b>Special inbus key</b> for fixation of 4F fixing bracket	-	<b>7.05</b>	-

Scope of delivery art-line 1 (for building height up to 20 m in non-exposed locations, wind zone 1 + 2)		
per m profile	per 90° external corner	per 90° internal corner
0.4 bars front profile at 2.50 m 0.4 bars top cap at 2.50 m 0.4 bars fillet plate at 2.50 m 1.2 4F fixing brackets / joint connections with security springs 2.4 distance plates / levelling plates	Front profile external corners Top cap miter for corners at (26.5/26.5 cm), Top cap for bitumen membrane (50/50 cm) 2 4F fixing brackets / joint connections with security springs 1 corner fixing bracket (nominal width > 200) 4 distance plates / levelling plates	Front profile internal corners Top cap miter for corners at (26.5/26.5 cm), Top cap for bitumen membrane (50/50 cm) 2 4F fixing brackets / joint connections with security springs 4 distance plates / levelling plates

\* per roof edge 1 additional piece of 4F fixing brackets is required

Tape			
	Width	EVALON® nominal thickness 1.5 mm	EVALASTIC® nominal thickness 1.5 mm
	cm	€/m	€/m
<b>Fillet plate 100</b>	25	<b>7.20</b>	<b>7.15</b>
<b>Fillet plate 150</b>	33	<b>9.35</b>	<b>9.30</b>

Prefabricated pieces (for connection of 90° standard external / internal corners)	
EVALON® nominal thickness 1.5 mm	EVALASTIC® nominal thickness 1.5 mm
€/piece	€/piece
<b>11.05</b>	<b>11.15</b>

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

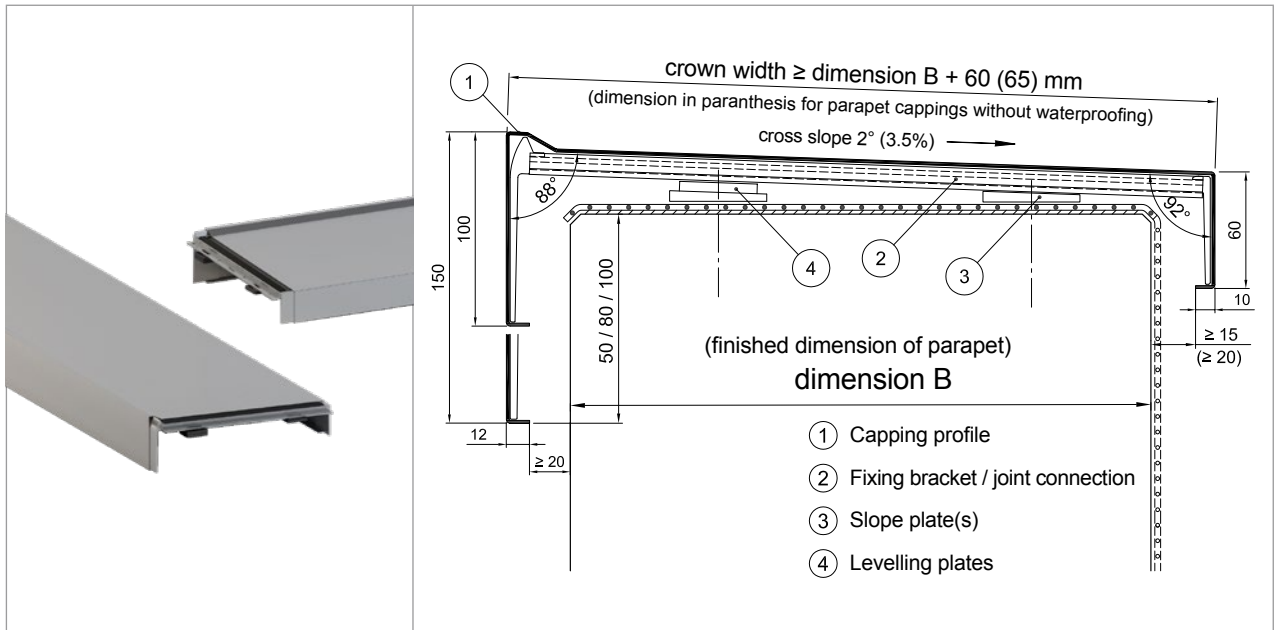


# Wall capping profiles

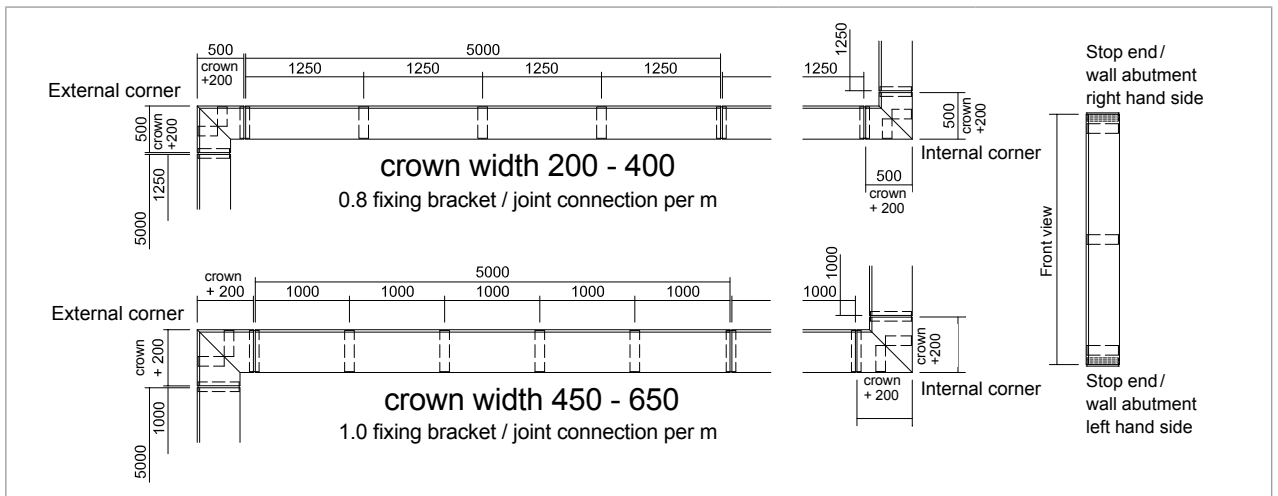
## MAG-6 (available ex stock)

### Wall capping profile MAG-6 (available ex stock)

Front face height: 100 or 150 mm - Back face height: 60 mm



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



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

	Material thickness in mm	1.5					2.0					
		250	300	350	400	450	500	550	600	650	700	750
max. building height in wind load zone 1	Terrain category II	25 m	25 m	25 m	20 m	17 m	7 m	25 m	20 m	14 m	10 m	7.5 m
	Mixed profile inland	25 m	25 m	25 m	25 m	25 m	14 m	25 m	25 m	22 m	18 m	15 m
	Terrain category III	25 m	25 m	25 m	25 m	25 m	19 m	25 m	25 m	25 m	25 m	20 m
max. building height in wind load zone 2	Terrain category II	25 m	25 m	15 m	9 m	7.5 m	-	13 m	8 m	6 m	4.5 m	-
	Mixed profile inland	25 m	25 m	23 m	16 m	15 m	8.5 m	21 m	16 m	13 m	10 m	8.5 m
	Terrain category III	25 m	25 m	25 m	22 m	20 m	10 m	25 m	21 m	16 m	13 m	10 m
max. building height in wind load zone 3	Mixed profile inland	25 m	22 m	14 m	10 m	9 m	-	12 m	9 m	7.5 m	-	-
	Terrain category III	25 m	25 m	18 m	12 m	11 m	-	16 m	11 m	9 m	-	-

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

## MAG-6 (available ex stock)

### Wall capping profile MAG-6 (available ex stock)

Front face height: 100 or 150 mm - Back face height: 60 mm

stock piled shapes of cross-sections with shorter delivery time and price advantage Mill finish protection foiled <sup>1</sup> incl. fixing bracket / joint connection for standard fixing bracket distance		Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Stop end/wall abutment mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end / wall abutment corner surcharge <sup>3</sup>	Additional demand fixing bracket/joint-connection
1.5 mm	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
200/100/60	44.55	22.10	137.45	32.20	42.40	92.90	10.10	16.40
250/100/60	48.45	24.90	146.05	35.70	46.90	97.60	10.80	17.10
300/100/60	52.35	27.70	154.65	39.20	51.40	102.30	11.50	17.80
350/100/60	56.25	30.50	168.90	45.75	55.90	107.00	12.20	18.50
400/100/60	63.95	33.30	188.45	52.90	60.40	111.70	12.90	19.20
450/100/60	67.85	36.10	204.65	60.55	64.90	116.40	13.60	19.90
500/100/60	71.75	38.90	221.55	68.80	69.40	121.10	14.30	20.60
2.0 mm	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
500/150/60	92.05	41.70	254.70	73.40	73.90	125.80	15.00	21.30
550/100/60	92.05	41.70	263.90	77.55	73.90	125.80	15.00	21.30
600/100/60	97.05	44.50	285.80	86.90	78.40	130.50	15.70	22.00
550/150/60	97.05	44.50	276.10	82.45	78.40	130.50	15.70	22.00
600/150/60	102.05	47.30	298.50	92.10	82.90	135.20	16.40	22.70
650/150/60	107.05	50.10	321.90	102.30	87.40	139.90	17.10	23.40

Order information: MAG-6 crown width / front face height / back face height / sheet thickness

#### Scope of delivery MAG-6

per m profile	per 90° external corner resp. per 90° internal corner
0.2 bars wall capping profile at 5.00 m 0.8 fixing brackets / joint connection (crown width up to 400 mm) 1.0 fixing bracket / joint connection (crown width 405 up to 650 mm) Slope plates, levelling plates	Capping external corner resp. capping internal corner - for crown width up to 300 mm: corner leg length = 500 mm - for crown width > 300 mm: corner leg length = crown width + 200 mm 1 fixing bracket / joint connection 2 corner fixing brackets (front face resp. back face) Slope plates, levelling plates

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

Surcharge	€/bag
Levelling plates (bag at 50 pieces)	24.75

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

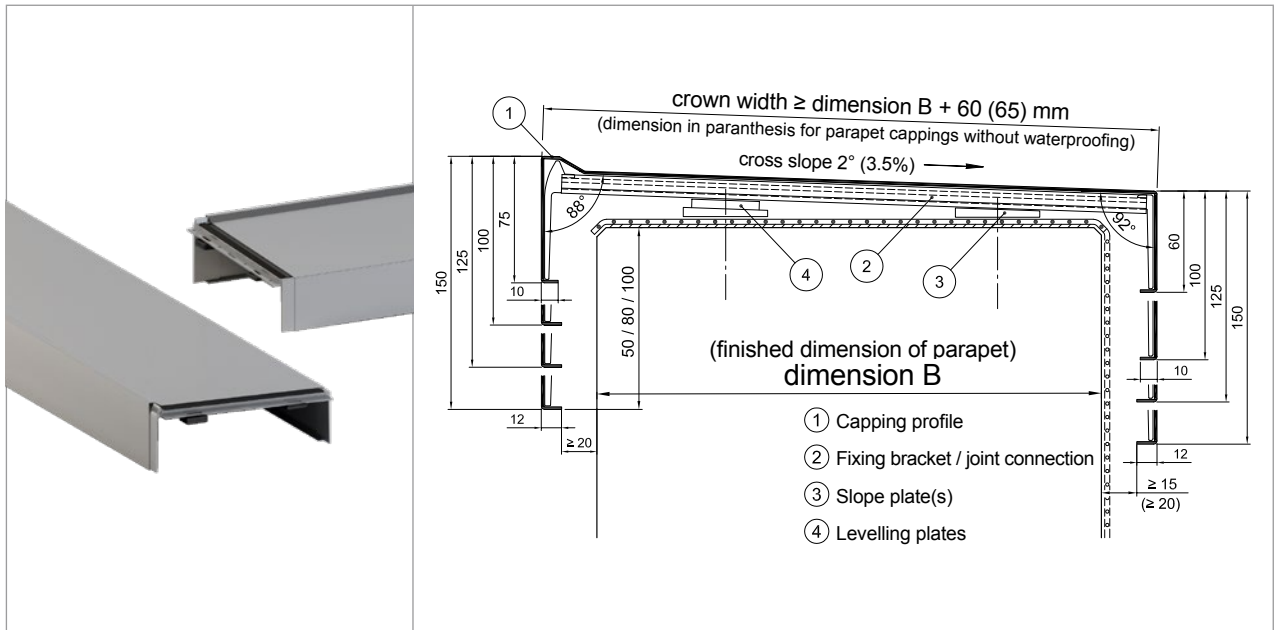
<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

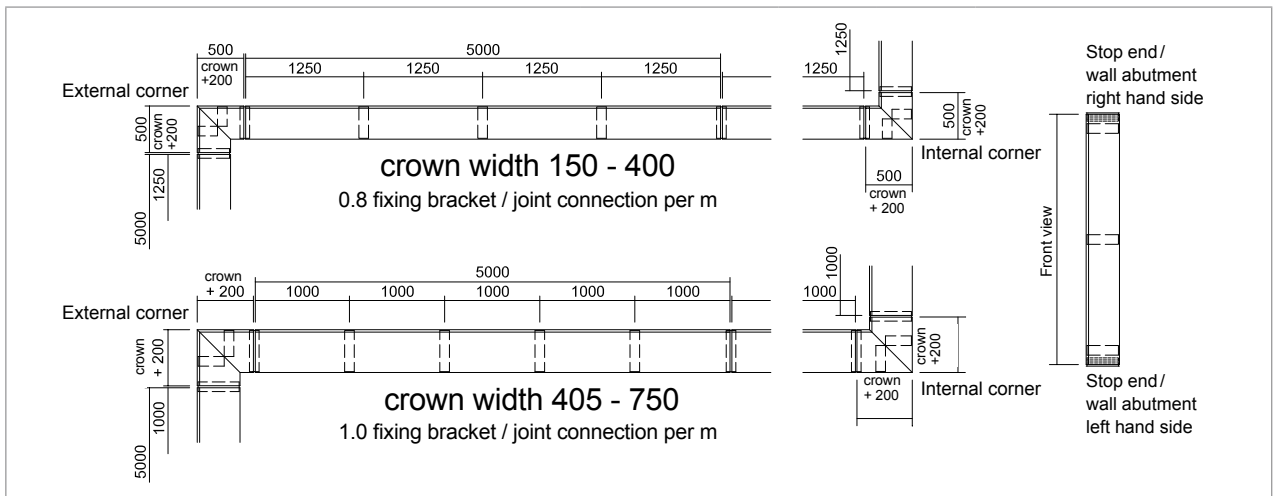
## MAG-6

### Wall capping profile MAG-6

Front face height: 75, 100, 125 or 150 mm - Back face height: 60, 100, 125 or 150 mm



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



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

Material thickness in mm	1.5						2.0					
	250	300	350	400	450	500	550	600	650	700	750	
max. building height in wind load zone 1	Terrain category II	25 m	25 m	25 m	20 m	17 m	7 m	25 m	20 m	14 m	10 m	7.5 m
	Mixed profile inland	25 m	25 m	25 m	25 m	25 m	14 m	25 m	25 m	22 m	18 m	15 m
	Terrain category III	25 m	25 m	25 m	25 m	25 m	19 m	25 m	25 m	25 m	25 m	20 m
max. building height in wind load zone 2	Terrain category II	25 m	25 m	15 m	9 m	7.5 m	-	13 m	8 m	6 m	4.5 m	-
	Mixed profile inland	25 m	25 m	23 m	16 m	15 m	8.5 m	21 m	16 m	13 m	10 m	8.5 m
	Terrain category III	25 m	25 m	25 m	22 m	20 m	10 m	25 m	21 m	16 m	13 m	10 m
max. building height in wind load zone 3	Mixed profile inland	25 m	22 m	14 m	10 m	9 m	-	12 m	9 m	7.5 m	-	-
	Terrain category III	25 m	25 m	18 m	12 m	11 m	-	16 m	11 m	9 m	-	-

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.



### Wall capping profile MAG-6

Front face height: 75, 100, 125 or 150 mm - Back face height: 60, 100, 125 or 150 mm

Girth up to (crown width 150 mm – max. 750 mm) mm	Mill finish protection foiled <sup>1</sup> incl. fixing bracket/joint connection for standard fixing bracket distance		Surcharge colour coating <sup>2</sup> €/m	Stop end/ wall abutment mill finish €/piece	90° corner surcharge <sup>3</sup> mill finish incl. acc. €/piece	Surcharge colour coating corner/stop end/ wall abutment €/piece	Additional demand fixing bracket/ joint connection €/piece
	1.5 mm	2.0 mm					
300	41.25	47.75	16.50	33.40	83.50	8.70	15.00
325	43.20	50.25	17.90	35.65	85.85	9.05	15.35
350	45.15	52.75	19.30	37.90	88.20	9.40	15.70
375	47.10	55.25	20.70	40.15	90.55	9.75	16.05
400	49.05	57.75	22.10	42.40	92.90	10.10	16.40
425	51.00	60.25	23.50	44.65	95.25	10.45	16.75
450	52.95	62.75	24.90	46.90	97.60	10.80	17.10
475	54.90	65.25	26.30	49.15	99.95	11.15	17.45
500	56.85	67.75	27.70	51.40	102.30	11.50	17.80
525	58.80	70.25	29.10	53.65	104.65	11.85	18.15
550	60.75	72.75	30.50	55.90	107.00	12.20	18.50
575	66.50	79.05	31.90	58.15	109.35	12.55	18.85
600	68.45	81.55	33.30	60.40	111.70	12.90	19.20
625	70.40	84.05	34.70	62.65	114.05	13.25	19.55
650	72.35	86.55	36.10	64.90	116.40	13.60	19.90
675	74.30	89.05	37.50	67.15	118.75	13.95	20.25
700	76.25	91.55	38.90	69.40	121.10	14.30	20.60
725	78.20	94.05	40.30	71.65	123.45	14.65	20.95
750	80.15	96.55	41.70	73.90	125.80	15.00	21.30
775		99.05	43.10	76.15	128.15	15.35	21.65
800		101.55	44.50	78.40	130.50	15.70	22.00
825		104.05	45.90	80.65	132.85	16.05	22.35
850		106.55	47.30	82.90	135.20	16.40	22.70
875		109.05	48.70	85.15	137.55	16.75	23.05
900		111.55	50.10	87.40	139.90	17.10	23.40
925		114.05	51.50	89.65	142.25	17.45	23.75
950		116.55	52.90	91.90	144.60	17.80	24.10
975		119.05	54.30	94.15	146.95	18.15	24.45
1,000		121.55	55.70	96.40	149.30	18.50	24.80

Crown widths selectable in intervals of 5 mm

**Crown widths 150 up to 500 mm** in 1.5 and 2.0 mm thick aluminium sheet

**Crown widths > 500 up to 750 mm** in 2.0 mm thick aluminium sheet

Deviant front face heights / back face heights / crown widths / sheet thicknesses on request

Order information: MAG-6 crown width / front face height / back face height / sheet thickness

#### Scope of delivery MAG-6

per m profile

per 90° external corner resp. per 90° internal corner

0.2 bars **wall capping profile at 5.00 m**

0.8 fixing brackets / joint connection (crown width up to 400 mm)

1.0 fixing bracket / joint connection (crown width 405 up to 750 mm)

Slope plates, levelling plates

Capping external corner resp. capping internal corner

- for crown width up to 300 mm: corner leg length = 500 mm

- for crown width > 300 mm: corner leg length = crown width + 200 mm

1 fixing bracket / joint connection

2 corner fixing brackets (front face resp. back face)

Slope plates, levelling plates

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

#### Surcharge

€/bag

**Levelling plates** (bag at 50 pieces)

**24.75**

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

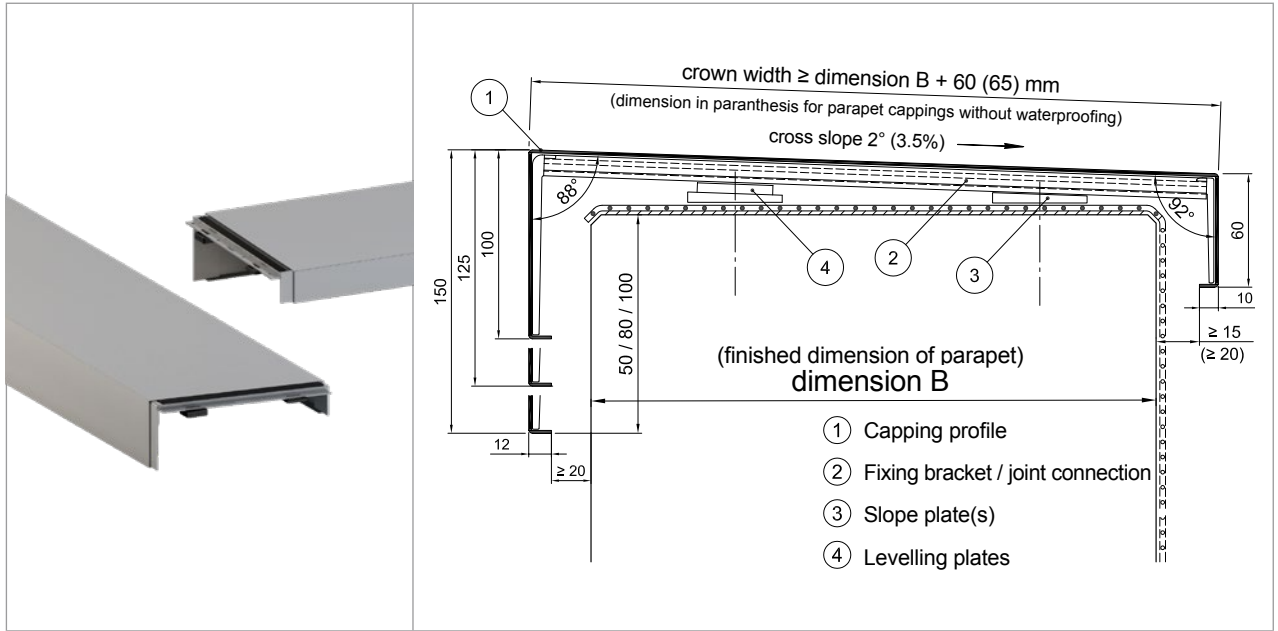
<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

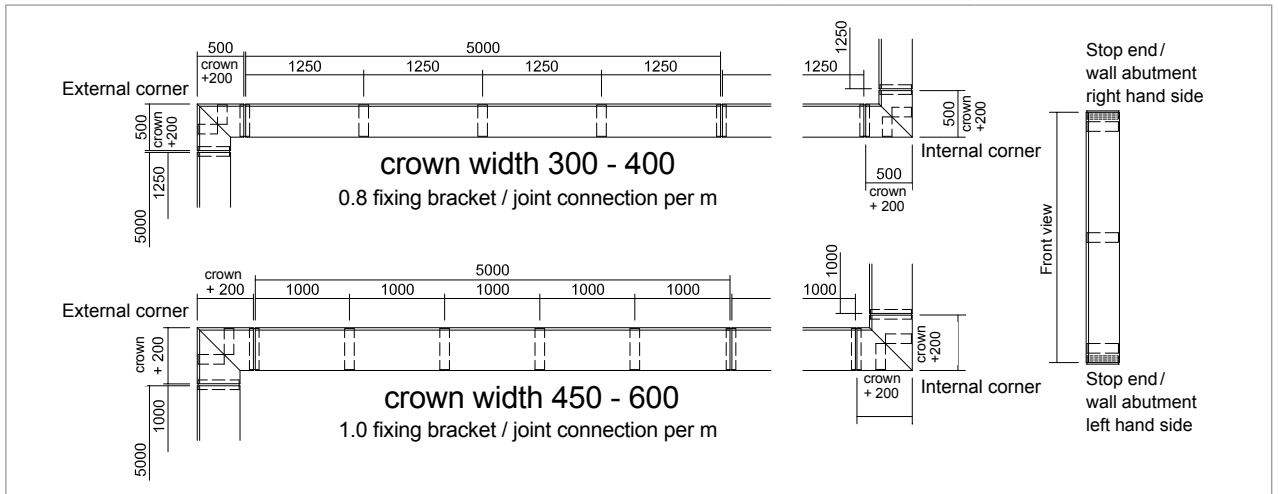
## MAG-4 (available ex stock)

### Wall capping profile MAG-4 (available ex stock)

Front face height: 100, 125 or 150 mm - Back face height: 60 mm



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



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

	Material thickness in mm	1.5					2.0					
		250	300	350	400	450	500	550	600	650	700	750
max. building height in wind load zone 1	Terrain category II	25 m	25 m	25 m	20 m	17 m	7 m	25 m	20 m	14 m	10 m	7.5 m
	Mixed profile inland	25 m	25 m	25 m	25 m	25 m	14 m	25 m	25 m	22 m	18 m	15 m
	Terrain category III	25 m	25 m	25 m	25 m	25 m	19 m	25 m	25 m	25 m	25 m	20 m
max. building height in wind load zone 2	Terrain category II	25 m	25 m	15 m	9 m	7.5 m	-	13 m	8 m	6 m	4.5 m	-
	Mixed profile inland	25 m	25 m	23 m	16 m	15 m	8.5 m	21 m	16 m	13 m	10 m	8.5 m
	Terrain category III	25 m	25 m	25 m	22 m	20 m	10 m	25 m	21 m	16 m	13 m	10 m
max. building height in wind load zone 3	Mixed profile inland	25 m	22 m	14 m	10 m	9 m	-	12 m	9 m	7.5 m	-	-
	Terrain category III	25 m	25 m	18 m	12 m	11 m	-	16 m	11 m	9 m	-	-

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

## MAG-4 (available ex stock)

### Wall capping profile MAG-4 (available ex stock)

Front face height: 100, 125 or 150 mm - Back face height: 60 mm

stock piled shapes of cross-sections with shorter delivery time and price advantage Mill finish protection foiled <sup>1</sup> incl. fixing bracket / joint connection for standard fixing bracket distance		Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Stop end/wall abutment mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end / wall abutment corner surcharge <sup>3</sup>	Additional demand fixing bracket/joint-connection
1.5 mm	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
300/100/60	50.40	27.70	152.70	39.20	51.40	102.30	11.50	17.80
350/100/60	54.30	30.50	166.75	45.75	55.90	107.00	12.20	18.50
400/100/60	62.00	33.30	186.10	52.90	60.40	111.70	12.90	19.20
450/125/60	67.85	37.50	207.00	62.70	67.15	118.75	13.95	20.25
2.0 mm	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
500/125/60	87.60	40.30	246.10	71.10	71.65	123.45	14.65	20.95
550/150/60	95.10	44.50	273.15	82.45	78.40	130.50	15.70	22.00
600/150/60	100.10	47.30	295.40	92.10	82.90	135.20	16.40	22.70

Crown widths 300 up to 450 mm in 1.5 mm thick aluminium sheet  
Crown widths 500 up to 600 mm in 2.0 mm thick aluminium sheet

Order information: MAG-4 crown width / front face height / back face height / sheet thickness

#### Scope of delivery MAG-4

per m profile	per 90° external corner resp. per 90° internal corner
0.2 bars wall capping profile at 5.00 m 0.8 fixing brackets / joint connection (crown width up to 400 mm) 1.0 fixing bracket / joint connection (crown width 405 up to 650 mm) Slope plates, levelling plates	Capping external corner resp. capping internal corner - for crown width up to 300 mm: corner leg length = 500 mm - for crown width > 300 mm: corner leg length = crown width + 200 mm 1 fixing bracket / joint connection 2 corner fixing brackets (front face resp. back face) Slope plates, levelling plates

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

Surcharge	€/bag
Levelling plates (bag at 50 pieces)	24.75

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

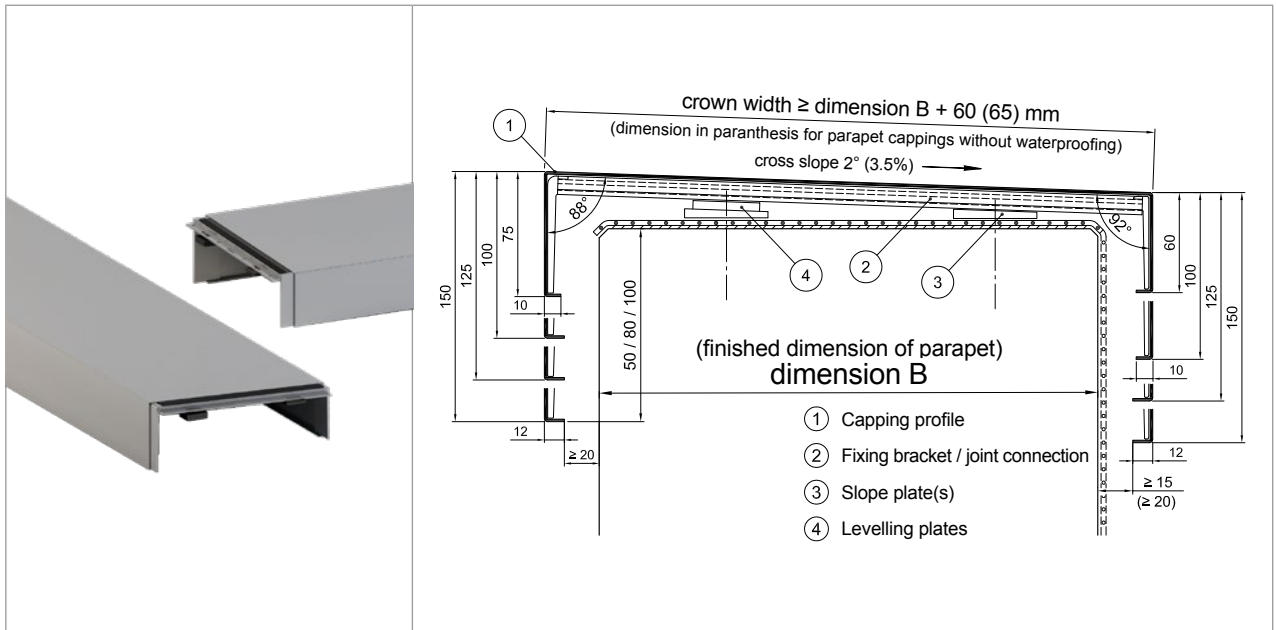
<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

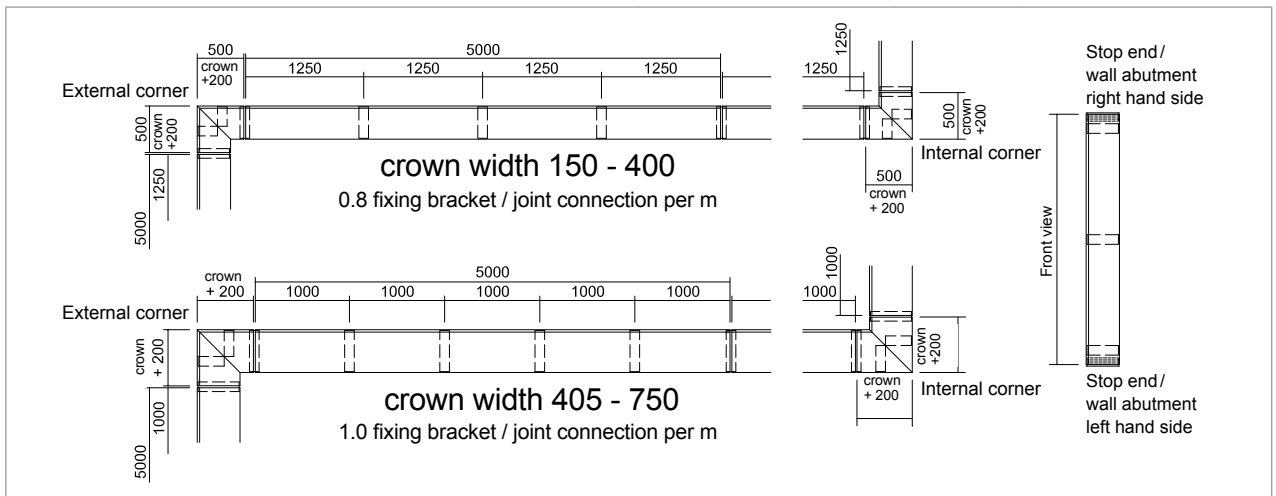
## MAG-4

### Wall capping profile MAG-4

Front face height: 75, 100, 125 or 150 mm - Back face height: 60, 100, 125 or 150 mm



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



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

	Material thickness in mm	1.5					2.0					
		250	300	350	400	450	500	550	600	650	700	750
max. building height in wind load zone 1	Terrain category II	25 m	25 m	25 m	20 m	17 m	7 m	25 m	20 m	14 m	10 m	7.5 m
	Mixed profile inland	25 m	25 m	25 m	25 m	25 m	14 m	25 m	25 m	22 m	18 m	15 m
	Terrain category III	25 m	25 m	25 m	25 m	25 m	19 m	25 m	25 m	25 m	25 m	20 m
max. building height in wind load zone 2	Terrain category II	25 m	25 m	15 m	9 m	7.5 m	-	13 m	8 m	6 m	4.5 m	-
	Mixed profile inland	25 m	25 m	23 m	16 m	15 m	8.5 m	21 m	16 m	13 m	10 m	8.5 m
	Terrain category III	25 m	25 m	25 m	22 m	20 m	10 m	25 m	21 m	16 m	13 m	10 m
max. building height in wind load zone 3	Mixed profile inland	25 m	22 m	14 m	10 m	9 m	-	12 m	9 m	7.5 m	-	-
	Terrain category III	25 m	25 m	18 m	12 m	11 m	-	16 m	11 m	9 m	-	-

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

### Wall capping profile MAG-4

Front face height: 75, 100, 125 or 150 mm - Back face height: 60, 100, 125 or 150 mm

Girth up to (crown width 150 mm – max. 750 mm) mm	Mill finish protection foiled <sup>1</sup> incl. fixing bracket/joint connection for standard fixing bracket distance		Surcharge colour coating <sup>2</sup> €/m	Stop end/ wall abutment mill finish €/piece	90° corner surcharge <sup>3</sup> mill finish €/piece	Surcharge colour coating corner/stop end/ wall abutment €/piece	Additional demand fixing bracket/ joint connection €/piece
	1.5 mm	2.0 mm					
300	39.30	45.80	16.50	33.40	83.50	8.70	15.00
325	41.25	48.30	17.90	35.65	85.85	9.05	15.35
350	43.20	50.80	19.30	37.90	88.20	9.40	15.70
375	45.15	53.30	20.70	40.15	90.55	9.75	16.05
400	47.10	55.80	22.10	42.40	92.90	10.10	16.40
425	49.05	58.30	23.50	44.65	95.25	10.45	16.75
450	51.00	60.80	24.90	46.90	97.60	10.80	17.10
475	52.95	63.30	26.30	49.15	99.95	11.15	17.45
500	54.90	65.80	27.70	51.40	102.30	11.50	17.80
525	56.85	68.30	29.10	53.65	104.65	11.85	18.15
550	58.80	70.80	30.50	55.90	107.00	12.20	18.50
575	64.55	77.10	31.90	58.15	109.35	12.55	18.85
600	66.50	79.60	33.30	60.40	111.70	12.90	19.20
625	68.45	82.10	34.70	62.65	114.05	13.25	19.55
650	70.40	84.60	36.10	64.90	116.40	13.60	19.90
675	72.35	87.10	37.50	67.15	118.75	13.95	20.25
700	74.30	89.60	38.90	69.40	121.10	14.30	20.60
725	76.25	92.10	40.30	71.65	123.45	14.65	20.95
750	78.20	94.60	41.70	73.90	125.80	15.00	21.30
775		97.10	43.10	76.15	128.15	15.35	21.65
800		99.60	44.50	78.40	130.50	15.70	22.00
825		102.10	45.90	80.65	132.85	16.05	22.35
850		104.60	47.30	82.90	135.20	16.40	22.70
875		107.10	48.70	85.15	137.55	16.75	23.05
900		109.60	50.10	87.40	139.90	17.10	23.40
925		112.10	51.50	89.65	142.25	17.45	23.75
950		114.60	52.90	91.90	144.60	17.80	24.10
975		117.10	54.30	94.15	146.95	18.15	24.45
1,000		119.60	55.70	96.40	149.30	18.50	24.80

Crown widths selectable in intervals of 5 mm  
**Crown widths 150 up to 500 mm** in 1.5 and 2.0 mm thick aluminium sheet  
**Crown widths > 500 up to 750 mm** in 2.0 mm thick aluminium sheet

Deviant front face heights / back face heights / crown widths / sheet thicknesses on request

Order information: MAG-4 crown width / front face height / back face height / sheet thickness

#### Scope of delivery MAG-4

per m profile

per 90° external corner resp. per 90° internal corner

0.2 bars **wall capping profile at 5.00 m**  
 0.8 fixing brackets / joint connection (crown width up to 400 mm)  
 1.0 fixing bracket / joint connection (crown width 405 up to 750 mm)  
 Slope plates, levelling plates

Capping external corner resp. capping internal corner  
 - for crown width up to 300 mm: corner leg length = 500 mm  
 - for crown width > 300 mm: corner leg length = crown width + 200 mm  
 1 fixing bracket / joint connection  
 2 corner fixing brackets (front face resp. back face)  
 Slope plates, levelling plates

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

#### Surcharge

€/bag

**Levelling plates** (bag at 50 pieces)

24.75

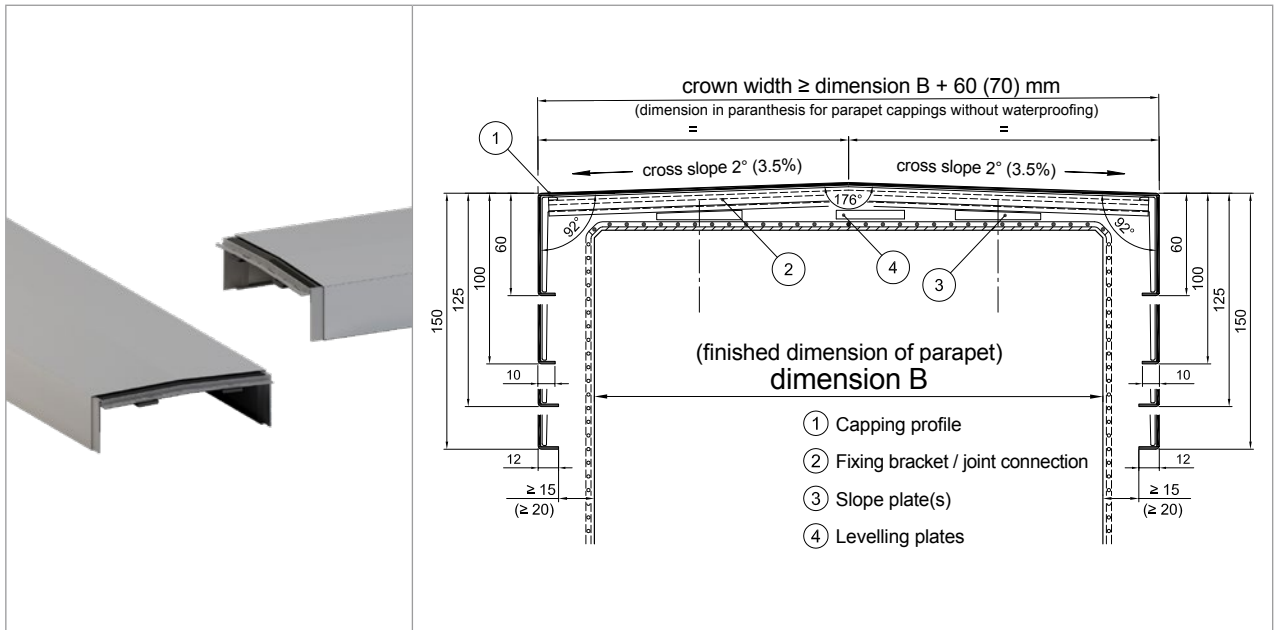
<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

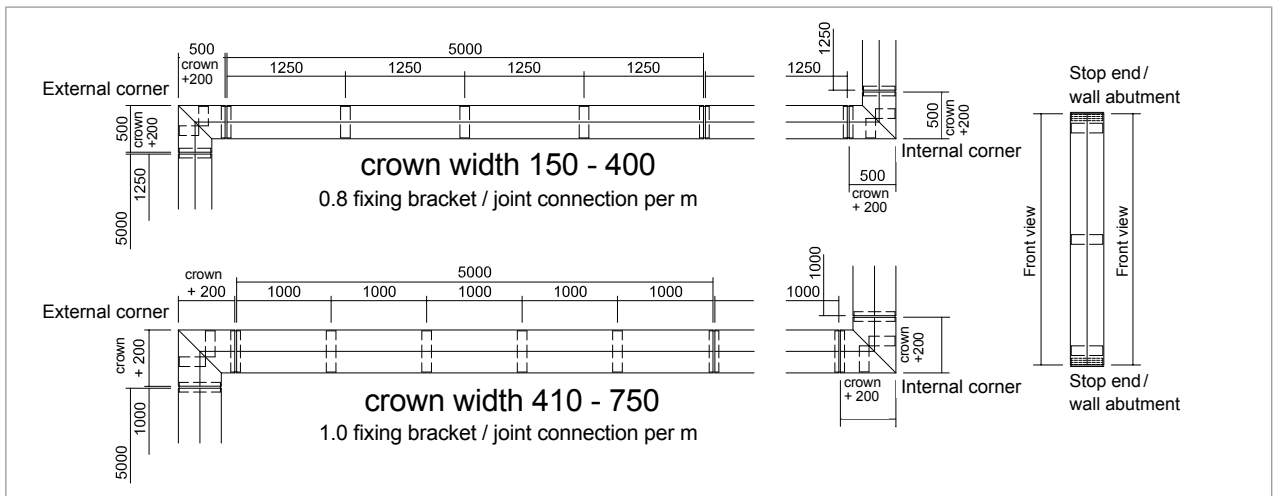
<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

### Wall capping profile MAG-5

Front face height = Back face height: 60, 100, 125 or 150 mm



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



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

	Material thickness in mm	1.5					2.0					
		250	300	350	400	450	500	550	600	650	700	750
max. building height in wind load zone 1	Terrain category II	25 m	25 m	25 m	20 m	17 m	7 m	25 m	20 m	14 m	10 m	7.5 m
	Mixed profile inland	25 m	25 m	25 m	25 m	25 m	14 m	25 m	25 m	22 m	18 m	15 m
	Terrain category III	25 m	25 m	25 m	25 m	25 m	19 m	25 m	25 m	25 m	25 m	20 m
max. building height in wind load zone 2	Terrain category II	25 m	25 m	15 m	9 m	7.5 m	-	13 m	8 m	6 m	4.5 m	-
	Mixed profile inland	25 m	25 m	23 m	16 m	15 m	8.5 m	21 m	16 m	13 m	10 m	8.5 m
	Terrain category III	25 m	25 m	25 m	22 m	20 m	10 m	25 m	21 m	16 m	13 m	10 m
max. building height in wind load zone 3	Mixed profile inland	25 m	22 m	14 m	10 m	9 m	-	12 m	9 m	7.5 m	-	-
	Terrain category III	25 m	25 m	18 m	12 m	11 m	-	16 m	11 m	9 m	-	-

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

### Wall capping profile MAG-5

Front face height = Back face height: 60, 100, 125 or 150 mm

Girth up to (crown width 150 mm – max. 750 mm)  mm	Mill finish protection foiled <sup>1</sup> incl. fixing bracket/joint connection for standard fixing bracket distance		Surcharge colour coating <sup>2</sup>  €/m	Stop end/ wall abutment mill finish  €/piece	90° corner surcharge <sup>3</sup> mill finish  €/piece	Surcharge colour coating corner/stop end/ wall abutment  €/piece	Additional demand fixing bracket/ joint connection  €/piece
	€/m						
	1.5 mm	2.0 mm					
250	40.60	46.00	14.00	31.30	78.80	8.00	16.90
275	42.55	48.50	15.25	33.65	81.15	8.35	17.25
300	44.50	51.00	16.50	36.00	83.50	8.70	17.60
325	46.45	53.50	17.90	38.25	85.85	9.05	17.95
350	48.40	56.00	19.30	40.50	88.20	9.40	18.30
375	50.35	58.50	20.70	42.75	90.55	9.75	18.65
400	52.30	61.00	22.10	45.00	92.90	10.10	19.00
425	54.25	63.50	23.50	47.25	95.25	10.45	19.35
450	56.20	66.00	24.90	49.50	97.60	10.80	19.70
475	58.15	68.50	26.30	51.75	99.95	11.15	20.05
500	60.10	71.00	27.70	54.00	102.30	11.50	20.40
525	62.05	73.50	29.10	56.25	104.65	11.85	20.75
550	64.00	76.00	30.50	58.50	107.00	12.20	21.10
575	69.75	82.30	31.90	60.75	109.35	12.55	21.45
600	71.70	84.80	33.30	63.00	111.70	12.90	21.80
625	73.65	87.30	34.70	65.25	114.05	13.25	22.15
650	75.60	89.80	36.10	67.50	116.40	13.60	22.50
675	77.55	92.30	37.50	69.75	118.75	13.95	22.85
700	79.50	94.80	38.90	72.00	121.10	14.30	23.20
725	81.45	97.30	40.30	74.25	123.45	14.65	23.55
750	83.40	99.80	41.70	76.50	125.80	15.00	23.90
775		102.30	43.10	78.75	128.15	15.35	24.25
800		104.80	44.50	81.00	130.50	15.70	24.60
825		107.30	45.90	83.25	132.85	16.05	24.95
850		109.80	47.30	85.50	135.20	16.40	25.30
875		112.30	48.70	87.75	137.55	16.75	25.65
900		114.80	50.10	90.00	139.90	17.10	26.00
925		117.30	51.50	92.25	142.25	17.45	26.35
950		119.80	52.90	94.50	144.60	17.80	26.70
975		122.30	54.30	96.75	146.95	18.15	27.05
1,000		124.80	55.70	99.00	149.30	18.50	27.40

Crown widths selectable in intervals of 10 mm

**Crown widths 150 up to 500 mm** in 1.5 and 2.0 mm thick aluminium sheet

**Crown widths > 500 up to 750 mm** in 2.0 mm thick aluminium sheet

Deviant front face heights / back face heights / crown widths / sheet thicknesses on request

Order information: MAG-5 shape of profile / crown width / front face height / sheet thickness

#### Scope of delivery MAG-5

per m profile	per 90° external corner resp. per 90° internal corner
0.2 bars <b>wall capping profile at 5.00 m</b> 0.8 fixing brackets / joint connection (crown width up to 400 mm) 1.0 fixing bracket / joint connection (crown width 405 up to 750 mm) Slope plates, levelling plates	Capping external corner resp. capping internal corner - for crown width up to 300 mm: corner leg length = 500 mm - for crown width > 300 mm: corner leg length = crown width + 200 mm 1 fixing bracket / joint connection 2 corner fixing brackets (front face resp. back face) Slope plates, levelling plates

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

Surcharge	€/bag
<b>Levelling plates</b> (bag at 50 pieces)	<b>24.75</b>

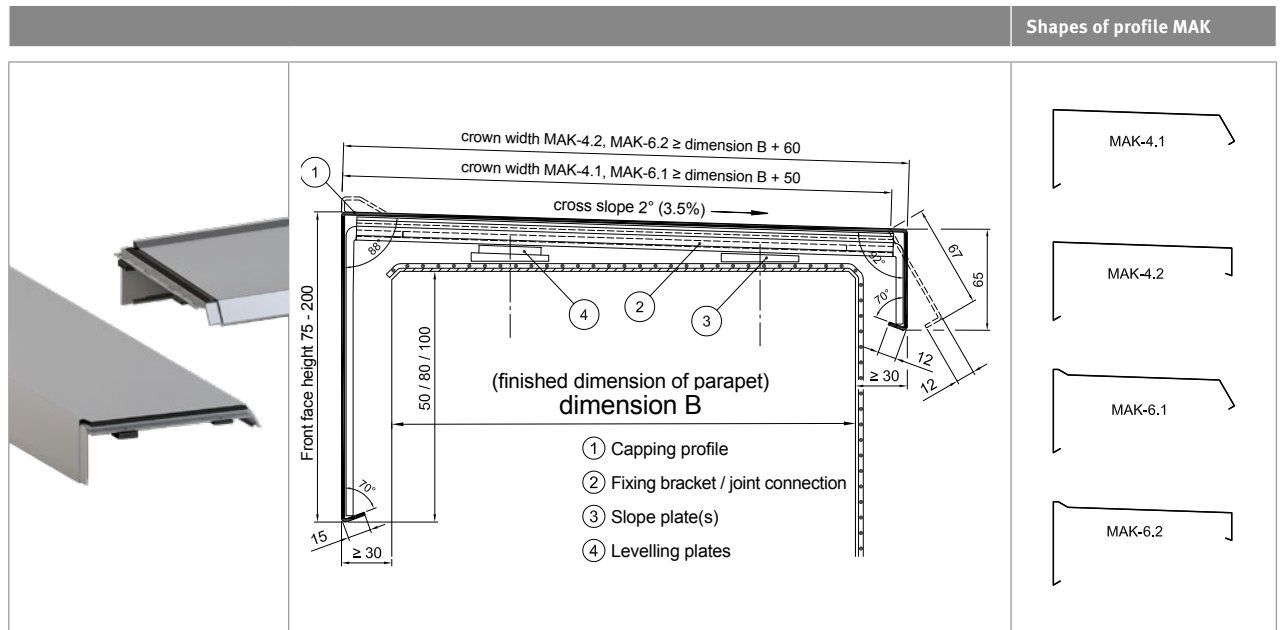
<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

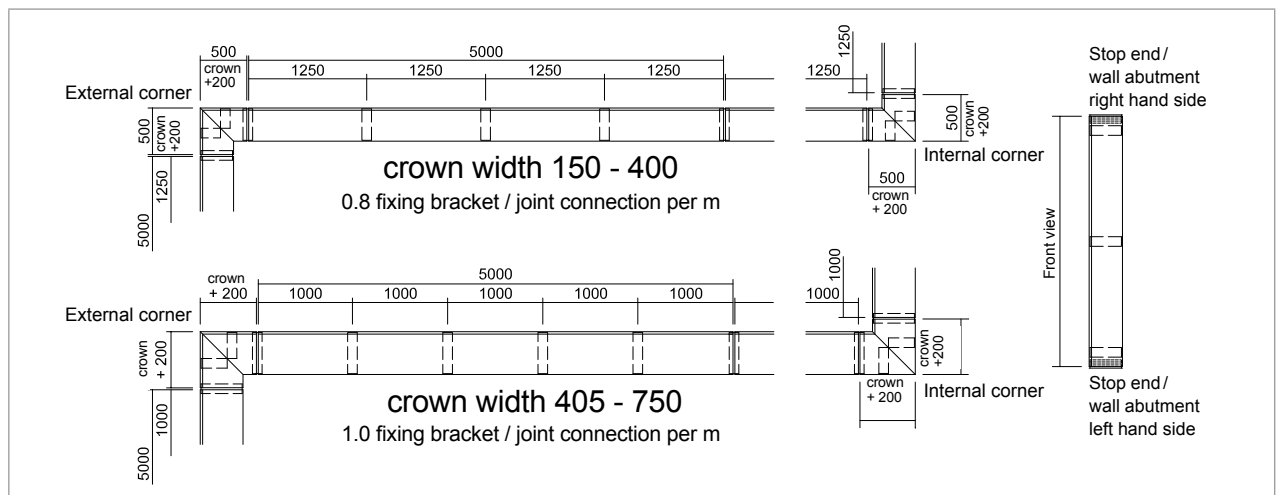
<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

## Wall capping profile MAK

Front face height: 75 – 200 mm - Back face height: 67 or 65 mm



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



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

	Material thickness in mm	1.5					2.0					
		250	300	350	400	450	500	550	600	650	700	750
max. building height in wind load zone 1	Terrain category II	25 m	25 m	25 m	20 m	17 m	7 m	25 m	20 m	14 m	10 m	7.5 m
	Mixed profile inland	25 m	25 m	25 m	25 m	25 m	14 m	25 m	25 m	22 m	18 m	15 m
	Terrain category III	25 m	25 m	25 m	25 m	25 m	19 m	25 m	25 m	25 m	25 m	20 m
max. building height in wind load zone 2	Terrain category II	25 m	25 m	15 m	9 m	7.5 m	-	13 m	8 m	6 m	4.5 m	-
	Mixed profile inland	25 m	25 m	23 m	16 m	15 m	8.5 m	21 m	16 m	13 m	10 m	8.5 m
	Terrain category III	25 m	25 m	25 m	22 m	20 m	10 m	25 m	21 m	16 m	13 m	10 m
max. building height in wind load zone 3	Mixed profile inland	25 m	22 m	14 m	10 m	9 m	-	12 m	9 m	7.5 m	-	-
	Terrain category III	25 m	25 m	18 m	12 m	11 m	-	16 m	11 m	9 m	-	-

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.



### Wall capping profile MAK

Front face height: 75 – 200 mm - Back face height: 67 or 65 mm

Front face height mm	Girth up to up to (crown width 150 mm – max. 750 mm)	Mill finish protection foiled <sup>1,2</sup> incl. fixing bracket/joint connection for standard fixing bracket distance		Surcharge colour coating <sup>3</sup> €/m	Stop end/ wall abutment mill finish €/piece	90° corner surcharge <sup>4</sup> mill finish €/piece	Surcharge colour coating corner/ stop end/ wall abutment €/piece	Additional demand fixing bracket/ joint connection €/piece
		1.5 mm	2.0 mm					
up to 200	300	39.30	45.80	16.50	33.40	83.50	8.70	15.00
	325	41.25	48.30	17.90	35.65	85.85	9.05	15.35
	350	43.20	50.80	19.30	37.90	88.20	9.40	15.70
	375	45.15	53.30	20.70	40.15	90.55	9.75	16.05
	400	47.10	55.80	22.10	42.40	92.90	10.10	16.40
	425	49.05	58.30	23.50	44.65	95.25	10.45	16.75
	450	51.00	60.80	24.90	46.90	97.60	10.80	17.10
	475	52.95	63.30	26.30	49.15	99.95	11.15	17.45
	500	54.90	65.80	27.70	51.40	102.30	11.50	17.80
	525	56.85	68.30	29.10	53.65	104.65	11.85	18.15
	550	58.80	70.80	30.50	55.90	107.00	12.20	18.50
	575	64.55	77.10	31.90	58.15	109.35	12.55	18.85
	600	66.50	79.60	33.30	60.40	111.70	12.90	19.20
	625	68.45	82.10	34.70	62.65	114.05	13.25	19.55
	650	70.40	84.60	36.10	64.90	116.40	13.60	19.90
	675	72.35	87.10	37.50	67.15	118.75	13.95	20.25
	700	74.30	89.60	38.90	69.40	121.10	14.30	20.60
	725	76.25	92.10	40.30	71.65	123.45	14.65	20.95
	750	78.20	94.60	41.70	73.90	125.80	15.00	21.30
	775		97.10	43.10	76.15	128.15	15.35	21.65
800		99.60	44.50	78.40	130.50	15.70	22.00	
825		102.10	45.90	80.65	132.85	16.05	22.35	
850		104.60	47.30	82.90	135.20	16.40	22.70	
875		107.10	48.70	85.15	137.55	16.75	23.05	
900		109.60	50.10	87.40	139.90	17.10	23.40	
925		112.10	51.50	89.65	142.25	17.45	23.75	
950		114.60	52.90	91.90	144.60	17.80	24.10	
975		117.10	54.30	94.15	146.95	18.15	24.45	
1,000		119.60	55.70	96.40	149.30	18.50	24.80	

Crown widths selectable in intervals of 5 mm

**Crown widths 150 up to 500 mm** in 1.5 and 2.0 mm thick aluminium sheet

**Crown widths > 500 up to 750 mm** in 2.0 mm thick aluminium sheet

Deviant front face heights / back face heights / crown widths / sheet thicknesses on request

Order information: MAK shape of profile / crown width / front face height / back face heights / sheet thickness

#### Scope of delivery MAK

per m profile per 90° external corner resp. per 90° internal corner

0.2 bars <b>wall capping profile at 5.00 m</b> 0.8 fixing brackets / joint connection (crown width up to 400 mm) 1.0 fixing bracket / joint connection (crown width 405 up to 750 mm) Slope plates, levelling plates	Capping external corner resp. capping internal corner - for crown width up to 300 mm: corner leg length = 500 mm - for crown width > 300 mm: corner leg length = crown width + 200 mm 1 fixing bracket / joint connection 2 corner fixing brackets (front face resp. back face) Slope plates, levelling plates
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In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

Surcharge €/bag

**Levelling plates** (bag at 50 pieces) 24.75

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are valid for MAK-4.1 / MAK-4.2 - surcharge for MAK-6.1 / MAK-6.2: 1.95 €/m

<sup>3</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

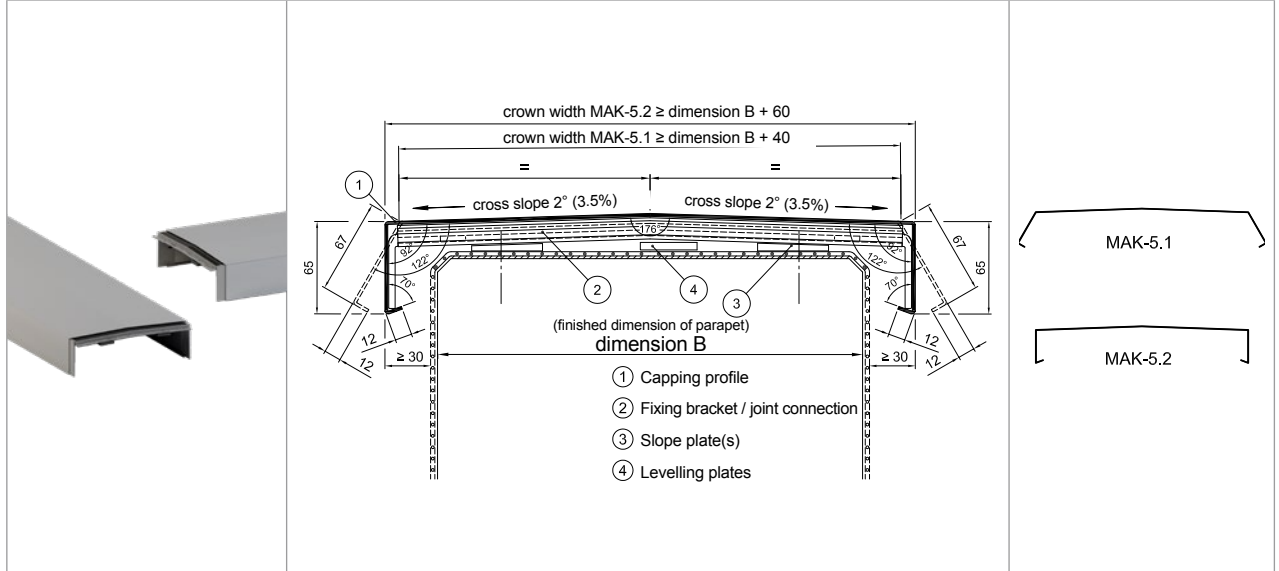
<sup>4</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

## MAK-5

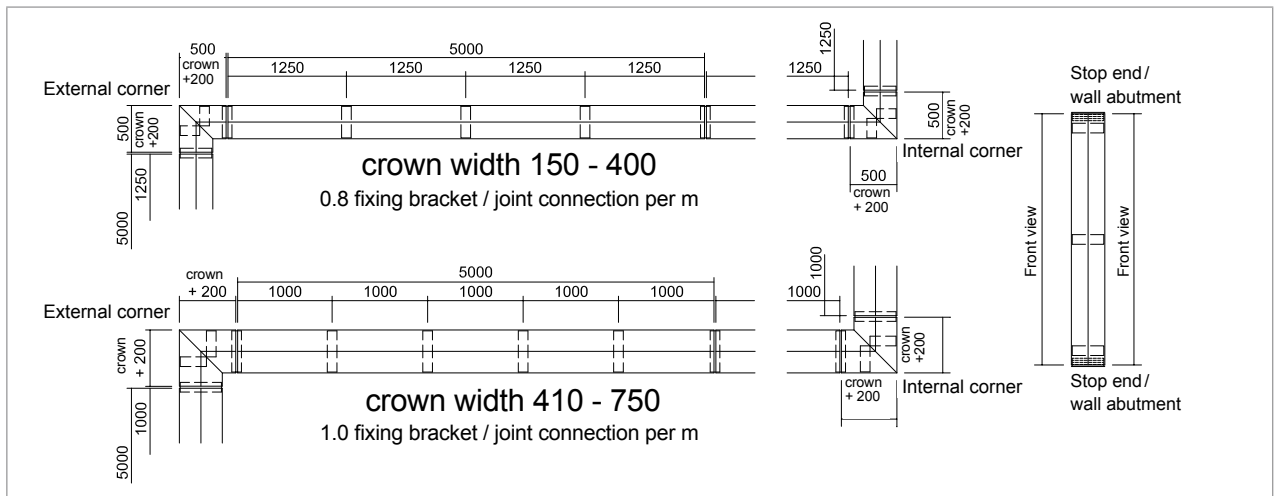
### Wall capping profile MAK-5

Front face height = Back face height: 67 or 65 mm

#### Shapes of profile MAK-5



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



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

Material thickness in mm		1.5						2.0				
		Crown width in mm										
Crown width in mm		250	300	350	400	450	500	550	600	650	700	750
max. building height in wind load zone 1	Terrain category II	25 m	25 m	25 m	20 m	17 m	7 m	25 m	20 m	14 m	10 m	7.5 m
	Mixed profile inland	25 m	25 m	25 m	25 m	25 m	14 m	25 m	25 m	22 m	18 m	15 m
	Terrain category III	25 m	25 m	25 m	25 m	25 m	19 m	25 m	25 m	25 m	25 m	20 m
max. building height in wind load zone 2	Terrain category II	25 m	25 m	15 m	9 m	7.5 m	-	13 m	8 m	6 m	4.5 m	-
	Mixed profile inland	25 m	25 m	23 m	16 m	15 m	8.5 m	21 m	16 m	13 m	10 m	8.5 m
	Terrain category III	25 m	25 m	25 m	22 m	20 m	10 m	25 m	21 m	16 m	13 m	10 m
max. building height in wind load zone 3	Mixed profile inland	25 m	22 m	14 m	10 m	9 m	-	12 m	9 m	7.5 m	-	-
	Terrain category III	25 m	25 m	18 m	12 m	11 m	-	16 m	11 m	9 m	-	-

In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

### Wall capping profile MAK-5

Front face height = Back face height: 67 or 65 mm

Girth up to (crown width 150 mm – max. 750 mm)  mm	Mill finish protection foiled <sup>1</sup> incl. fixing bracket/joint connection for standard fixing bracket distance		Surcharge colour coating <sup>2</sup>  €/m	Stop end/ wall abutment mill finish  €/piece	90° corner surcharge <sup>3</sup> mill finish  €/piece	Surcharge colour coating corner/stop end/ wall abutment  €/piece	Additional demand fixing bracket/ joint connection  €/piece
	€/m						
	1.5 mm	2.0 mm					
250	40.60	46.00	14.00	31.30	78.80	8.00	16.90
275	42.55	48.50	15.25	33.65	81.15	8.35	17.25
300	44.50	51.00	16.50	36.00	83.50	8.70	17.60
325	46.45	53.50	17.90	38.25	85.85	9.05	17.95
350	48.40	56.00	19.30	40.50	88.20	9.40	18.30
375	50.35	58.50	20.70	42.75	90.55	9.75	18.65
400	52.30	61.00	22.10	45.00	92.90	10.10	19.00
425	54.25	63.50	23.50	47.25	95.25	10.45	19.35
450	56.20	66.00	24.90	49.50	97.60	10.80	19.70
475	58.15	68.50	26.30	51.75	99.95	11.15	20.05
500	60.10	71.00	27.70	54.00	102.30	11.50	20.40
525	62.05	73.50	29.10	56.25	104.65	11.85	20.75
550	64.00	76.00	30.50	58.50	107.00	12.20	21.10
575	69.75	82.30	31.90	60.75	109.35	12.55	21.45
600	71.70	84.80	33.30	63.00	111.70	12.90	21.80
625	73.65	87.30	34.70	65.25	114.05	13.25	22.15
650	75.60	89.80	36.10	67.50	116.40	13.60	22.50
675	77.55	92.30	37.50	69.75	118.75	13.95	22.85
700	79.50	94.80	38.90	72.00	121.10	14.30	23.20
725	81.45	97.30	40.30	74.25	123.45	14.65	23.55
750	83.40	99.80	41.70	76.50	125.80	15.00	23.90
775		102.30	43.10	78.75	128.15	15.35	24.25
800		104.80	44.50	81.00	130.50	15.70	24.60
825		107.30	45.90	83.25	132.85	16.05	24.95
850		109.80	47.30	85.50	135.20	16.40	25.30
875		112.30	48.70	87.75	137.55	16.75	25.65
900		114.80	50.10	90.00	139.90	17.10	26.00
925		117.30	51.50	92.25	142.25	17.45	26.35
950		119.80	52.90	94.50	144.60	17.80	26.70
975		122.30	54.30	96.75	146.95	18.15	27.05
1,000		124.80	55.70	99.00	149.30	18.50	27.40

Crown widths selectable in intervals of 10 mm

**Crown widths 150 up to 500 mm** in 1.5 and 2.0 mm thick aluminium sheet

**Crown widths > 500 up to 750 mm** in 2.0 mm thick aluminium sheet

Deviant front face heights / back face heights / crown widths / sheet thicknesses on request

Order information: MAK-5 shape of profile / crown width / front face height / sheet thickness

#### Scope of delivery MAK-5

per m profile	per 90° external corner resp. per 90° internal corner
0.2 bars <b>wall capping profile at 5.00 m</b> 0.8 fixing brackets / joint connection (crown width up to 400 mm) 1.0 fixing bracket / joint connection (crown width 405 up to 750 mm) Slope plates, levelling plates	Capping external corner resp. capping internal corner - for crown width up to 300 mm: corner leg length = 500 mm - for crown width > 300 mm: corner leg length = crown width + 200 mm 1 fixing bracket / joint connection 2 corner fixing brackets (front face resp. back face) Slope plates, levelling plates

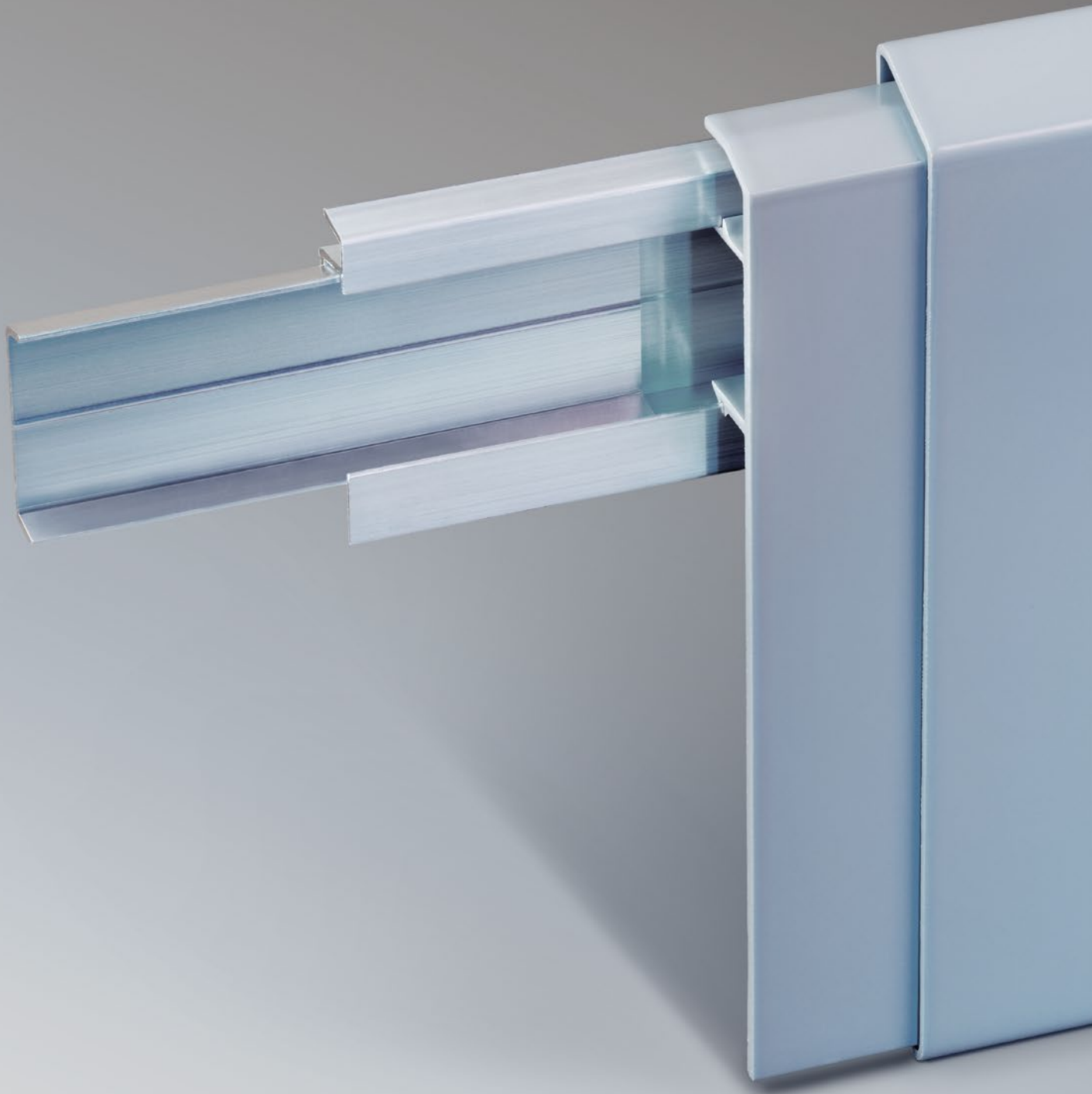
In case of different building heights and wind-exposed areas (e.g. wind load zone 4, coastal proximity, building locations > 800 m above sea level, exposed position) additional fixing brackets are required.

<b>Surcharge</b>	€/bag
<b>Levelling plates</b> (bag at 50 pieces)	<b>24.75</b>

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

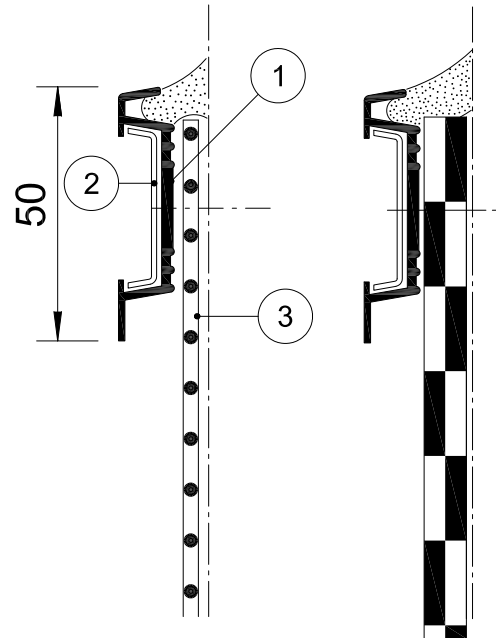
<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.



# Wall flashing profiles

### Wall flashing profile WA 1



- ① Wall flashing profile WA 1
- ② Joint connection
- ③ Tape

## WA 1


### Wall flashing profile WA 1

Profile nominal height	Packing unit	Mill finish <sup>1</sup> incl. acc.	90° corner complete mill finish	90° corner surcharge <sup>2</sup> mill finish
mm	bars x m	€/m	€/piece	€/piece
50	33 x 3	5.95	7.45	5.20

### Scope of delivery WA 1

per m profile	per 90° corner
0.33 bars WA 1 profile at 3.00 m, perforated 6.5 x 8 mm in e = 192 mm 0.33 joint connection	adjustable wall flashing corner (19/19 cm), perforated 6.5 x 8 mm 2 joint connection

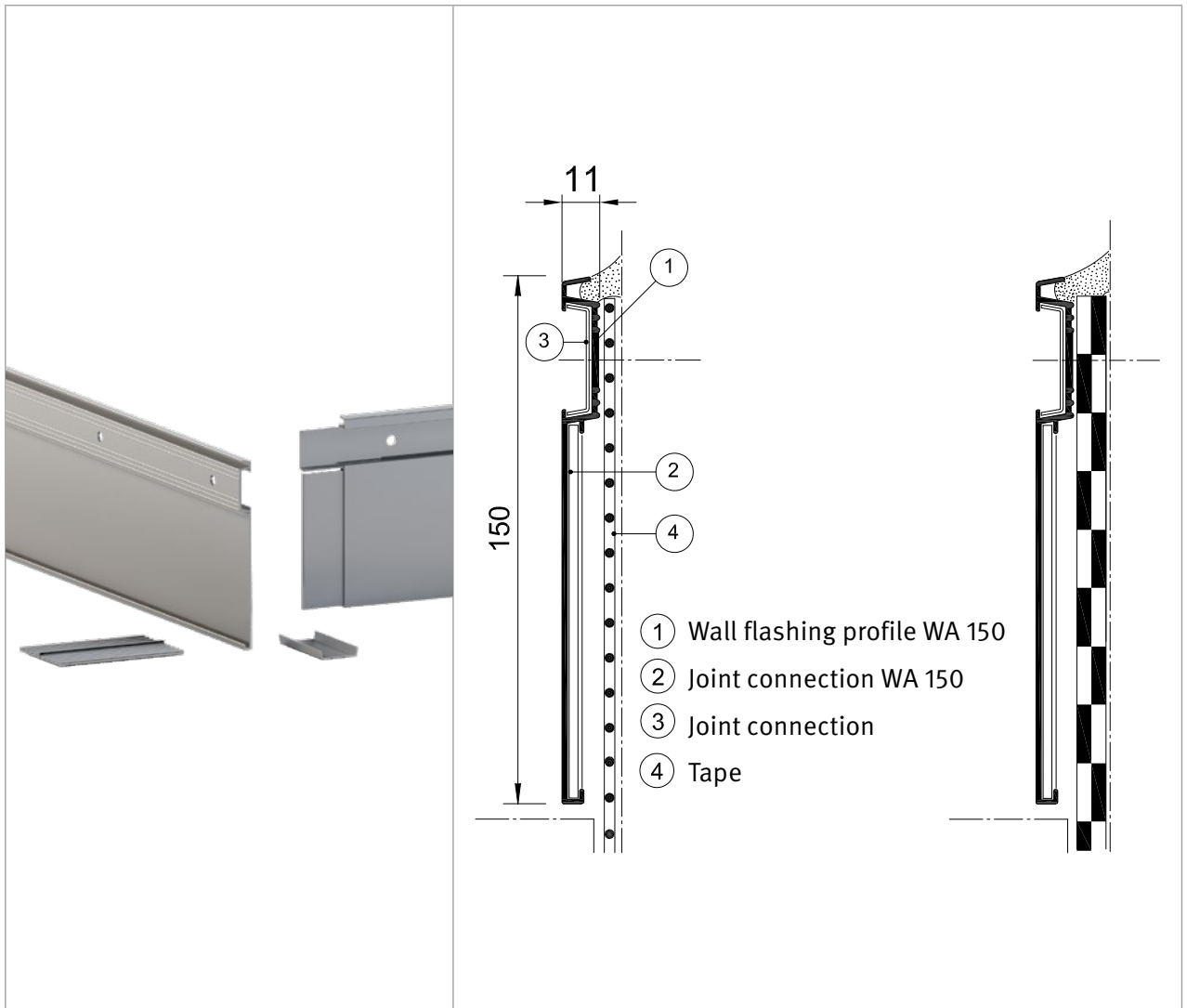
### Prefabricated pieces type W

	Product	Colour	€/piece
	<b>Internal corner</b> for parapets	EVALON® white / light grey / slate grey	8.25
		EVALASTIC® light grey / slate grey matt	8.25
	<b>External corner</b> for parapets	EVALON® white / light grey / slate grey	8.25
		EVALASTIC® light grey / slate grey matt	8.25

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

### Wall flashing profile WA 150





## WA 150



### Wall flashing profile WA 150

Profile nominal height	Packing unit	Mill finish <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish	Surcharge colour coating corner complete	Closed stop end mill finish	90° corner surcharge <sup>3</sup> mill finish	Surcharge colour coating stop end/corner surcharge <sup>3</sup>	Additional demand fixing bracket/joint-connection
mm	bars x m	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
150	20 x 3	16.50	12.30	20.95	10.10	25.70	14.65	5.40	2.10

### Scope of delivery WA 150

per m profile	per 90° corner
0.33 bars WA 150 profile at 3.00 m, perforated Ø 8.5 mm in e = 192 mm, 0.33 joint connection 0.33 joint connection WA 150	Wall flashing corner (19/19 cm), perforated Ø 8.5 mm 2 joint connection WA 1 2 joint connection WA 150

### Prefabricated pieces type W

	Product	Colour	€/piece
	<b>Internal corner</b> for parapets	EVALON® white / light grey / slate grey	8.25
		EVALASTIC® light grey / slate grey matt	8.25
	<b>External corner</b> for parapets	EVALON® white / light grey / slate grey	8.25
		EVALASTIC® light grey / slate grey matt	8.25

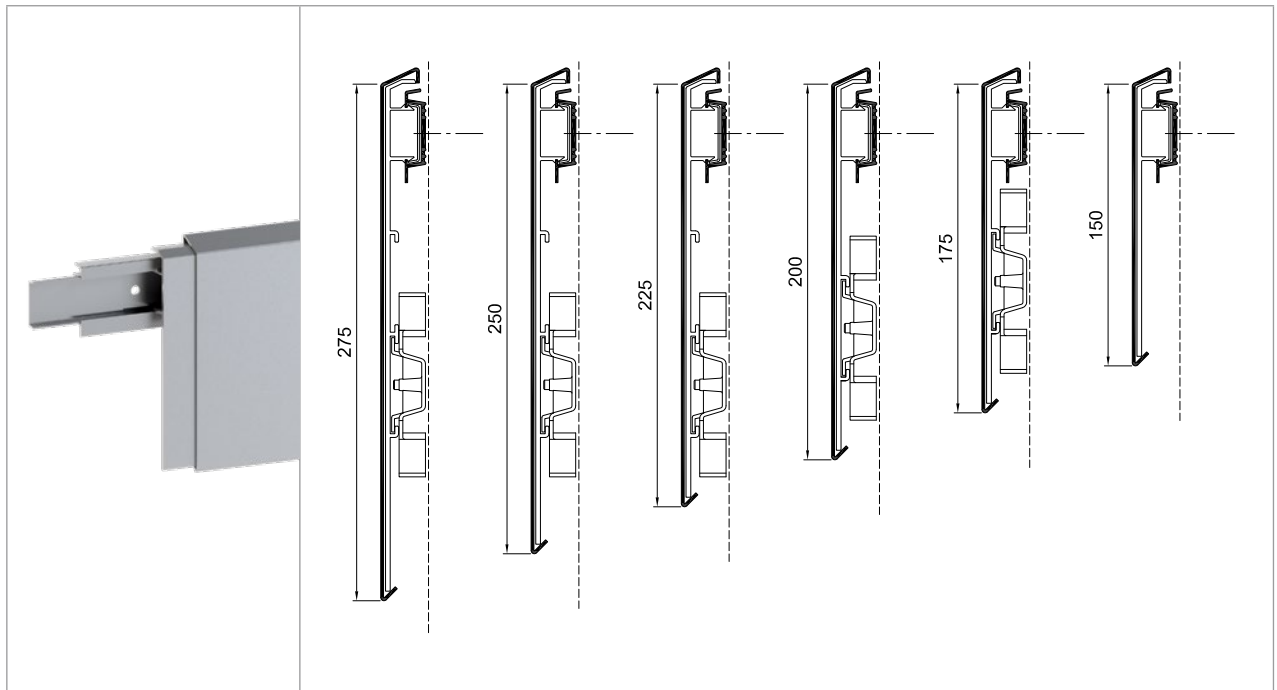
<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

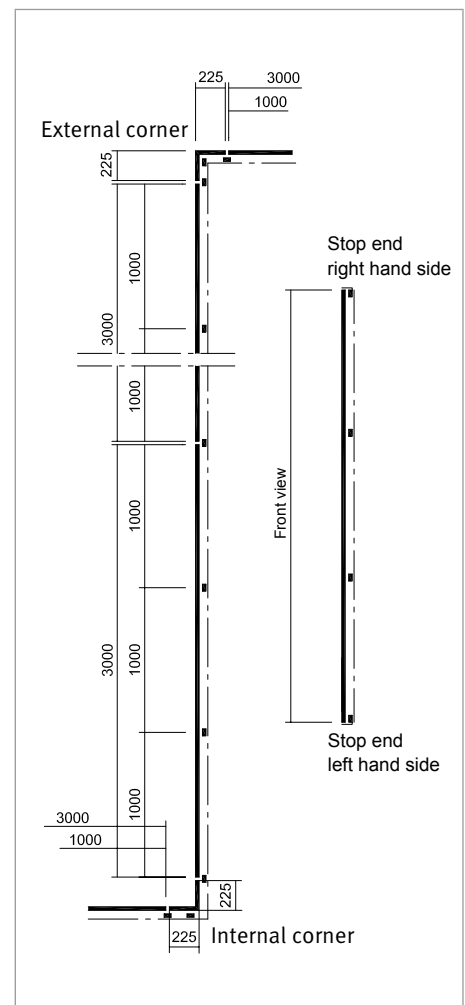
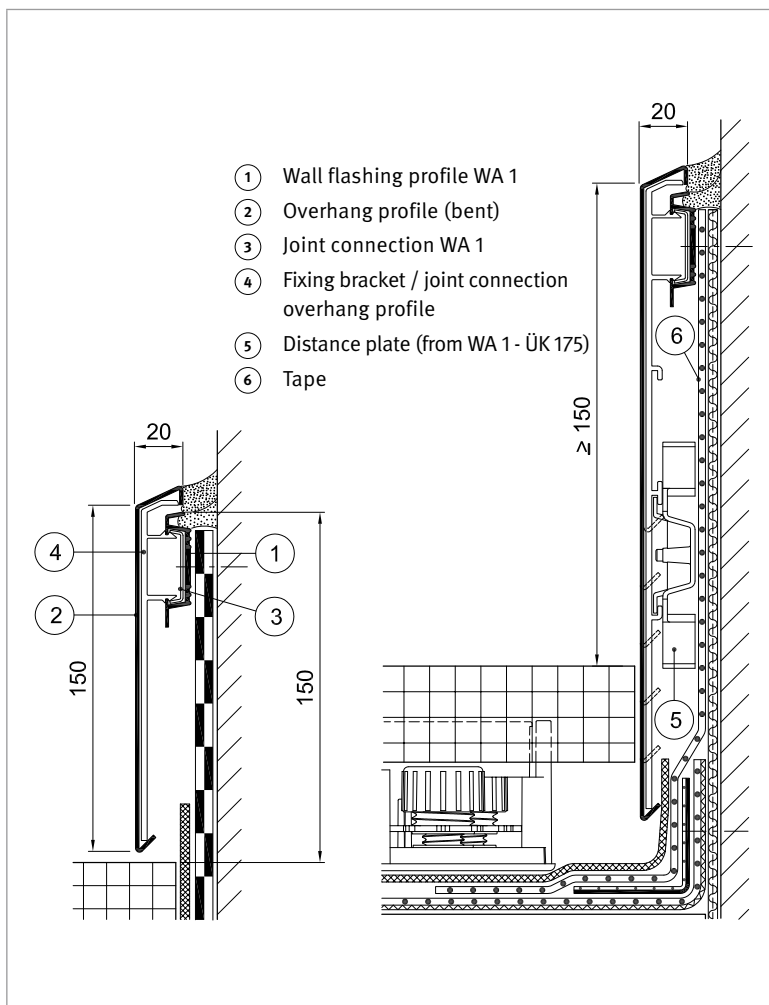
### Wall flashing profile WA 1 - ÜK

Profile nominal height: 150, 175, 200, 225, 250 or 275 mm



### Wall flashing profile WA 1 - ÜK

### Arrangement of fixing brackets



### Wall flashing profile WA 1 - ÜK with covered fastening

Profile nominal height	Packing unit	Mill finish <sup>1</sup> incl. acc.	Surcharge colour coating <sup>2</sup>	90° corner complete mill finish incl. acc.	Surcharge colour coating corner complete	Closed stop end mill finish	90° corner surcharge <sup>3</sup> mill finish incl. acc.	Surcharge colour coating stop end/corner surcharge <sup>3</sup>	Additional demand fixing bracket/joint-connection
mm	bars x m	€/m	€/m	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
150	20 x 3	25.65	12.25	48.35	10.95	26.85	36.80	5.40	2.60
175	20 x 3	31.80	13.75	52.40	11.60	26.85	38.05	5.40	3.45
200	20 x 3	33.25	15.40	53.75	12.35	26.85	38.75	5.40	3.55
225	20 x 3	34.75	16.95	55.00	13.05	29.05	39.35	5.40	3.65
250	20 x 3	36.00	18.55	56.45	13.75	31.10	40.25	5.40	3.80
275	20 x 3	37.35	20.20	57.65	14.50	33.35	40.80	5.40	3.95


### Scope of delivery WA 1 - ÜK

per m profile	per 90° corner
0.33 bars WA 1 profile at 3.00 m, perforated 6.5 x 8 mm in e = 192 mm 0.33 joint connection WA 1 0.33 bars overhang profile at 3.00 m 1 fixing bracket/joint connection for overhang profiles 1 distance plate (for WA 1 - ÜK 175)	Wall flashing corner (19/19 cm), perforated 6.5 x 8 mm 2 joint connection WA 1 Overhang profile corner (22.5/22.5 cm) 2 fixing brackets/joint connections for overhang profiles 2 distance plate (for WA 1 - ÜK 175)

### Tapes

	Width	EVALON® 1.5 mm, homogeneous	EVALASTIC® 1.5 mm, homogeneous	EVALON® VSKA 1.5 mm	EVALASTIC® VSKA 1.5 mm
	cm	€/m	€/m	€/m	€/m
<b>Tape</b>	33	9.35	9.30	-	-
	50	13.95	13.90	-	-
<b>Self-adhesive tape</b>	33	-	-	11.70	12.00
	43	-	-	15.10	15.30

### Prefabricated pieces type W

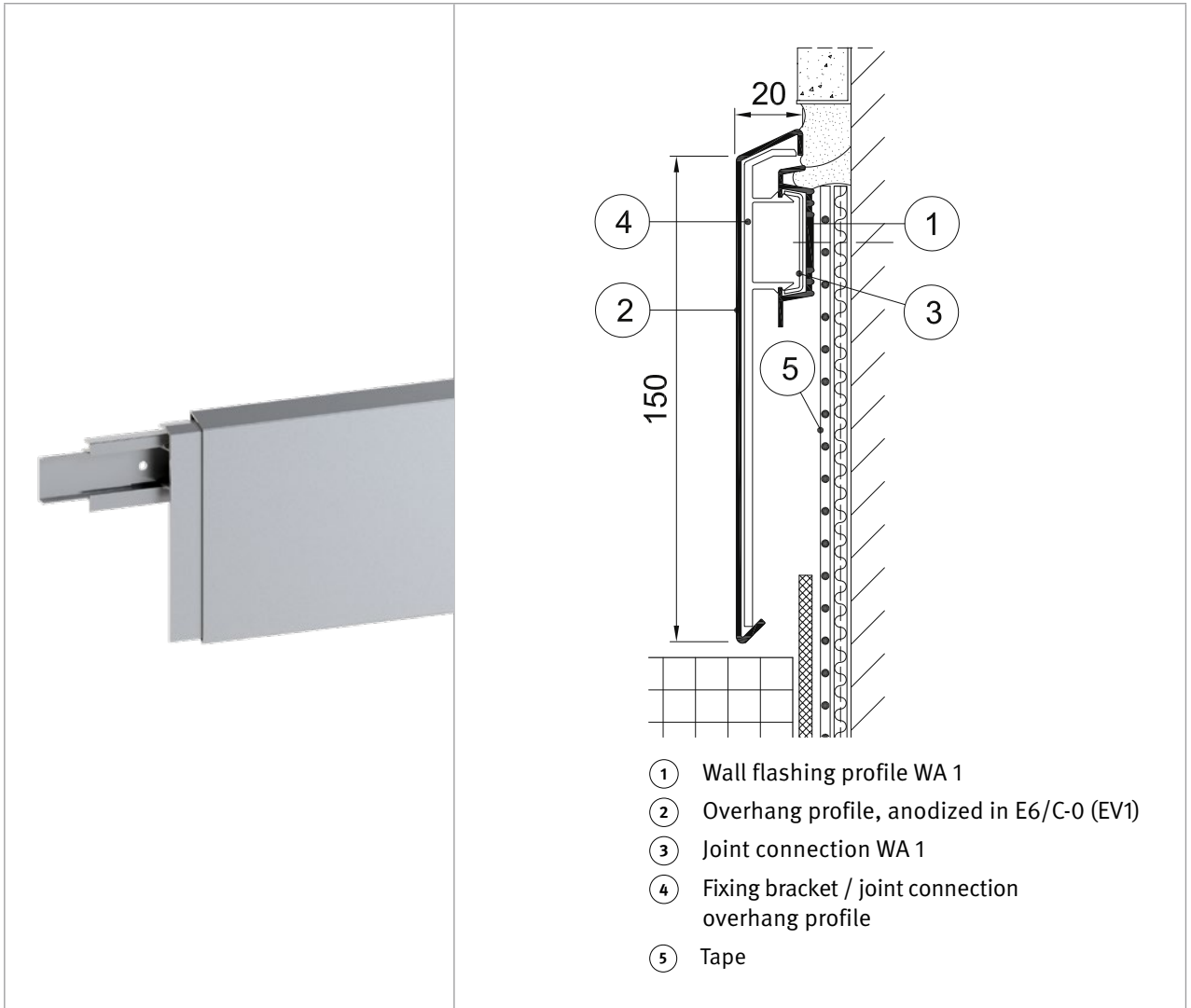
Form	Product	Colour	€/piece
	<b>Internal corner</b> for parapets	EVALON® white / light grey / slate grey	8.25
		EVALASTIC® light grey / slate grey matt	8.25
	<b>External corner</b> for parapets	EVALON® white / light grey / slate grey	8.25
		EVALASTIC® light grey / slate grey matt	8.25

<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

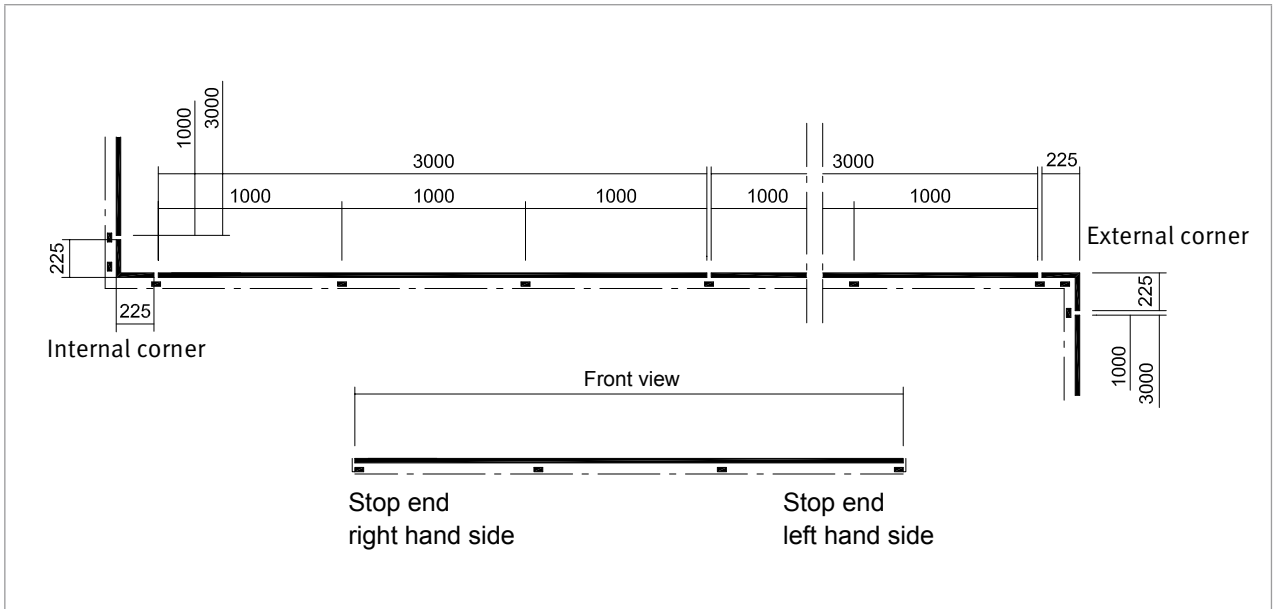
<sup>2</sup> Prices are only valid for the colour category "alwitra select" (for further information see pages 64-67)

<sup>3</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

Wall flashing profile WA 1 - Ü 150 E



Arrangement of fixing brackets



## WA 1 - Ü 150 E

**Wall flashing profile WA 1 - Ü 150 E** overhang profile, stop ends, anodized in E6/C-0 (EV1) with covered fastening

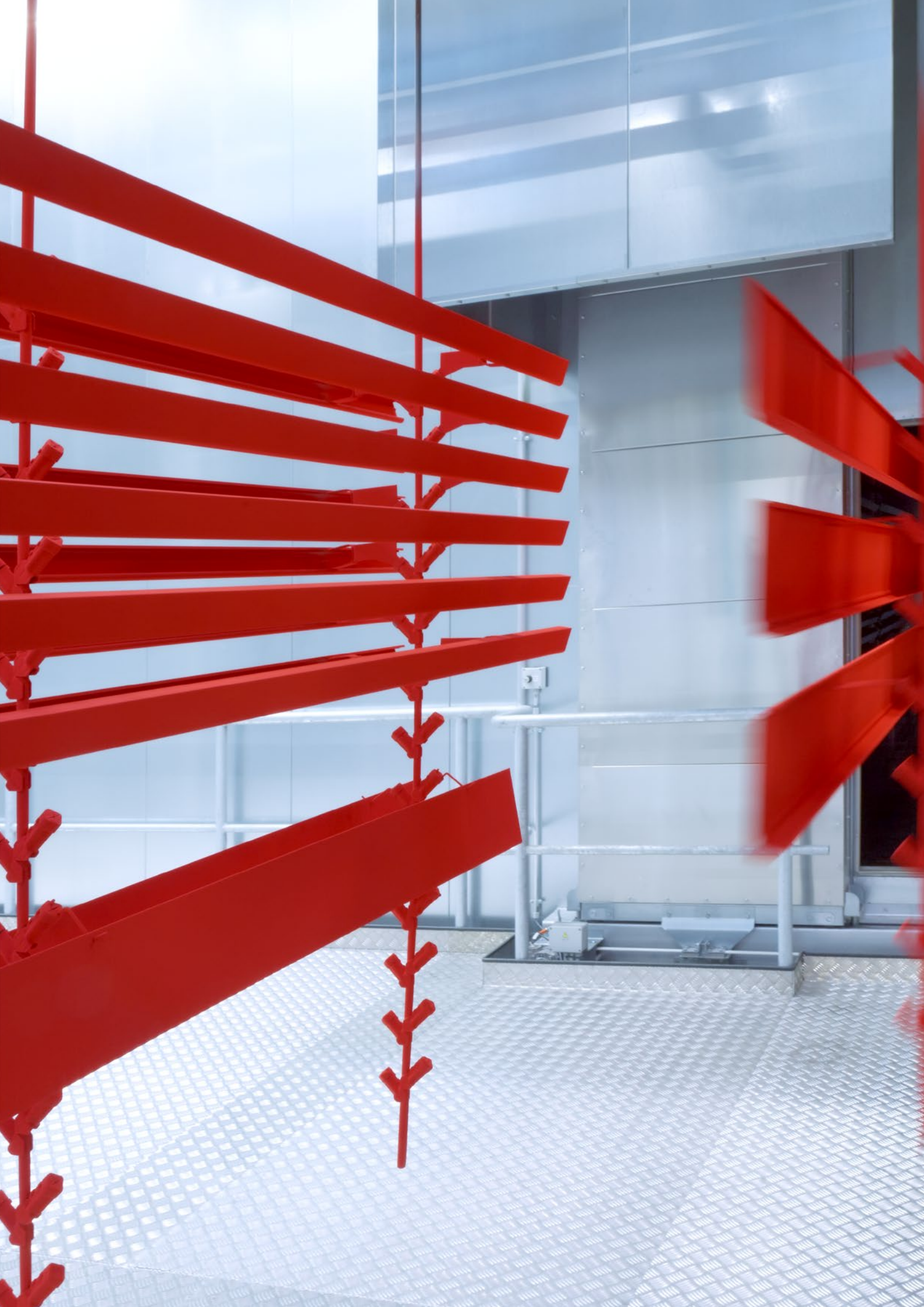
Profile nominal height	Packing unit	Alu anodized <sup>1</sup> incl. acc.	90° corner complete anodized incl. acc.	Closed stop end	90° corner surcharge <sup>2</sup> anodized incl. acc.	Additional demand fixing bracket/joint-connection	<p><b>note:</b></p> <p>the overhang profile Ü 150 E may not be combined with anodized overhang profiles ÜK 150-275 due to different glosses!</p>
mm	bars x m	€/m	€/piece	€/piece	€/piece	€/piece	
150	20 x 3	33.65	59.60	33.15	44.45	4.40	

**Scope of delivery WA 1 - Ü 150 E**

per m profile	per 90° corner
0.33 bars WA 1 profile at 3.00 m, perforated 6.5 x 8 mm in e = 192 mm 0.33 joint connection WA 1 0.33 bars overhang profile, <b>anodized in E6/C-0 (EV1)</b> at 3.00 m 1 fixing bracket/joint connection for overhang profiles	Wall flashing corner (19/19 cm), perforated 6.5 x 8 mm 2 joint connection WA 1 overhang profile corner, <b>anodized in E6/C-0 (EV1)</b> (22.5/22.5 cm) 2 fixing brackets/joint connections for overhang profiles

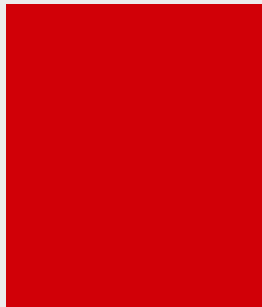
<sup>1</sup> Surcharge for special lengths: For bars shorter than the standard bar lengths, a surcharge of 20 % of the profile price per meter will be charged

<sup>2</sup> "Surcharge for corner" only for offers according to tenders. In case of order the prices for "complete corners incl. accessories" will be invoiced.

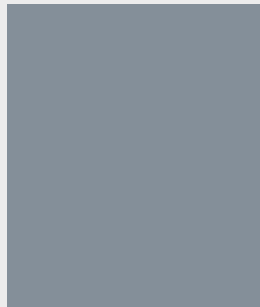


# Colour coating





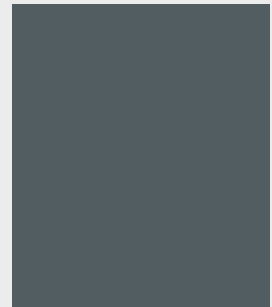
**RAL 3020 traffic red**  
gloss, matt



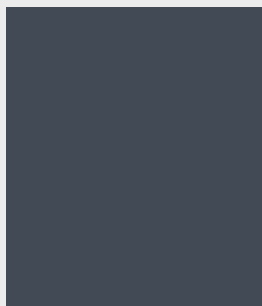
**RAL 7001 silver grey**  
gloss, satin-gloss



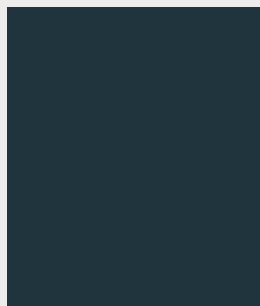
**RAL 7004 signal grey**  
gloss, matt



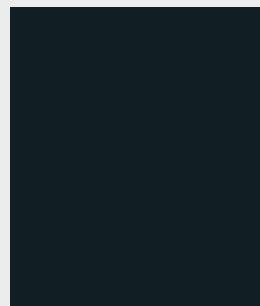
**RAL 7012 basalt grey**  
gloss, satin-gloss



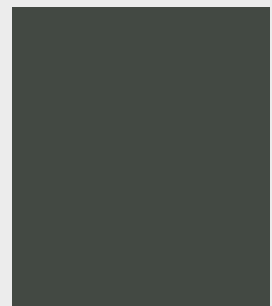
**RAL 7015 slate grey**  
gloss, satin-gloss



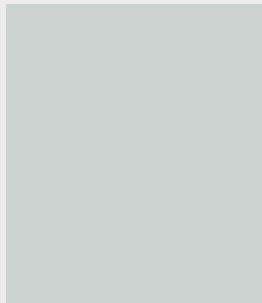
**RAL 7016 anthracite grey**  
gloss, satin-gloss



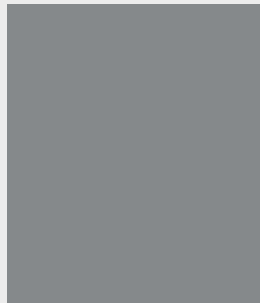
**RAL 7021 black grey**  
gloss, satin-gloss



**RAL 7022 umber**  
gloss, matt



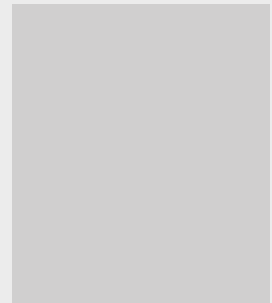
**RAL 7035 light grey**  
gloss, satin-gloss



**RAL 7037 dusty grey**  
gloss, satin-gloss



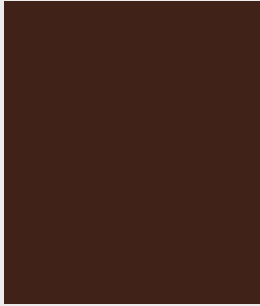
**RAL 7039 quartz grey**  
gloss, matt



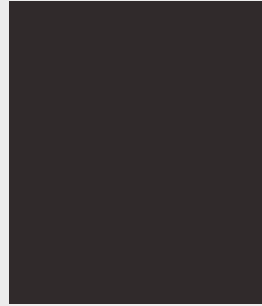
**RAL 7047 telegrey 4**  
gloss, satin-gloss

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





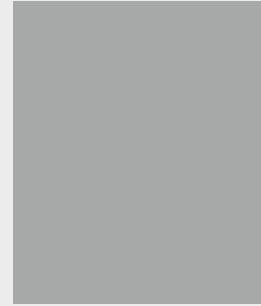
**RAL 8017 chocolate brown**  
gloss, satin-gloss



**RAL 8019 grey brown**  
gloss, satin-gloss



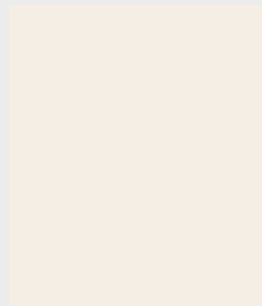
**RAL 9005 jet black**  
gloss, satin-gloss



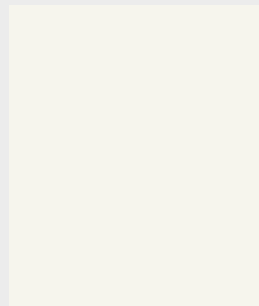
**RAL 9006 white aluminium**  
Structure, matt, metallic



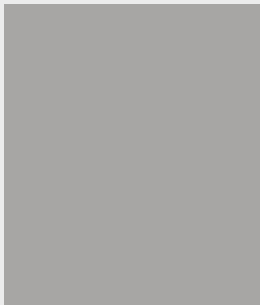
**RAL 9007 grey aluminium**  
Structure, matt, metallic



**RAL 9010 pure white**  
gloss, satin-gloss



**RAL 9016 traffic white**  
gloss, satin-gloss



**DB 701**  
Structure, matt, metallic



**DB 702**  
Structure, matt, metallic

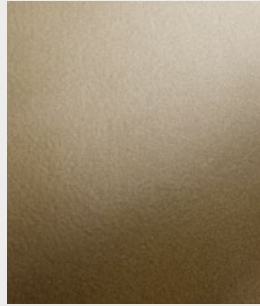


**DB 703**  
Structure, matt, metallic

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



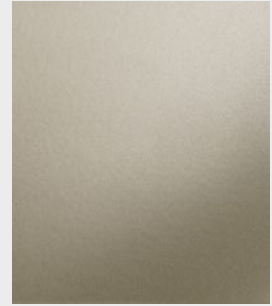
**anodized effect C34**  
gloss, matt, metallic



**anodized effect C33**  
gloss, matt, metallic



**anodized effect C32**  
gloss, matt, metallic



**anodized effect C31**  
gloss, matt, metallic



**anodized effect C0**  
gloss, matt, metallic

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

## Colour coating

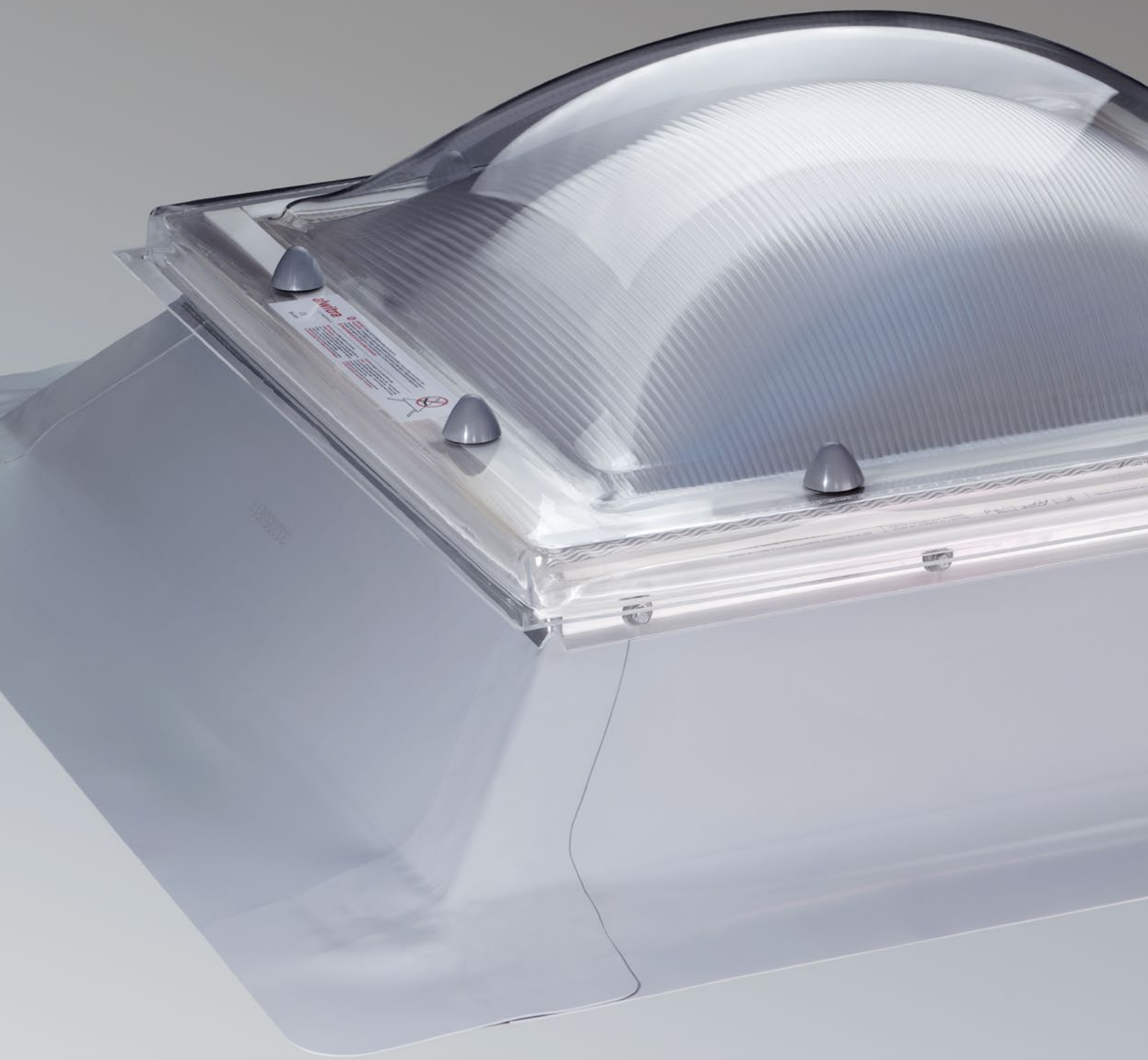
### Colour coating

With **alwitra select** and **alwitra select plus**, we offer you the latest colours and surface effects for modern roof edge design in highly weather-resistant quality (HWF, GSB-Master). All other colours from the RAL CLASSIC colour range are available in facade quality (GSB-Standard).

For further information see [www.alwitra.de/en/aluminium-profiles/synthetic-coatings](http://www.alwitra.de/en/aluminium-profiles/synthetic-coatings)

The billing of this colour category will be done according to the valid price list. The minimum coating values per colour and delivery are:

- **alwitra select:** minimum lump-sum for colour coating: 150.00 € gross.
- **alwitra select plus:** The billing will be done according to the valid price list for the colour category „alwitra select” plus a surcharge of 25%. The minimum lump-sum for colour coating amounts 550.00 € gross.
- **Other colours RAL CLASSIC:** All other colours of the RAL CLASSIC colour range are generally available only in the facade quality "GSB Standard" (not highly weatherproof). The billing will be done according to the valid price list for the colour category „alwitra select” plus a surcharge of 10%. The minimum coating value for other colours of the RAL CLASSIC colour range amounts: 300.00 € gross.  
Not available are e.g. fluorescent colours (RAL 1026, 2005, 2007, 3024, 3026).
- **Special colours,** that deviate from the RAL CLASSIC colour range, are – if deliverable – carried out by alwitra solely after a project-related testing and approval at extra cost.

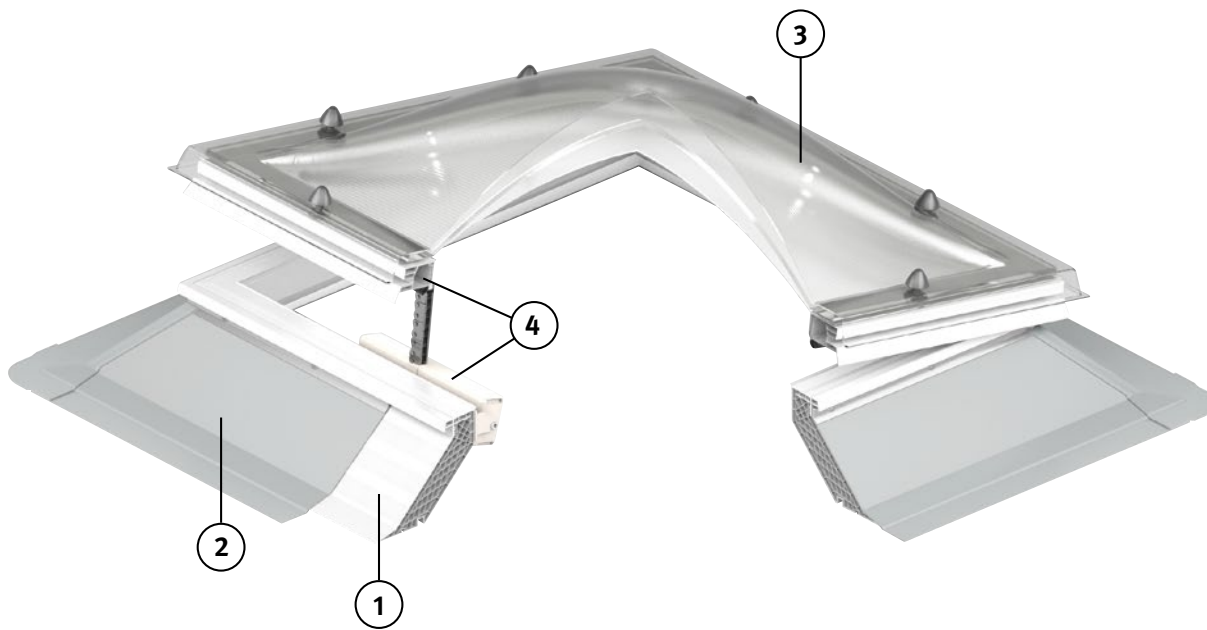


# Daylight systems



### Rooflight

Form/ Product specification



① Kerb

② factory-fitted flashing collar

③ Rooflight or DayLuxe window 2.0 rigid

**Options (not visualized):**

③a DayLuxe window 2.0 ventilated with integrated drive

④ Opening system (optional)

④a Opening system for daily ventilation incl. vent frame

**Options (not visualized):**

④b Roof hatch, if applicable in combination with opening system for daily ventilation incl. vent frame

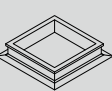
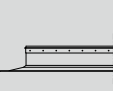
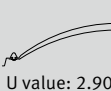
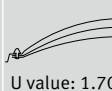
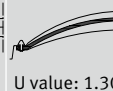
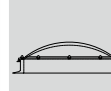
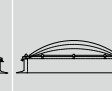
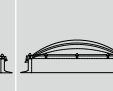
④c Vent frame (lockable) as single component

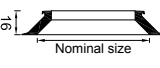
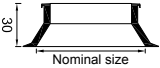
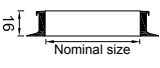
## Price fixing for alwitra rooflights

Explanation of the price fixing for alwitra rooflight (page 72/73) and alwitra DayLuxe windows 2.0 (page 75)

Nr.	Product	Price €
①	<b>Kerb</b>	_____ €
②	<b>+ factory-fitted flashing collar (optional)</b>	_____ €
③	<b>+ Rooflight or DayLuxe window 2.0 rigid</b>	_____ €
	or	
③a	<b>DayLuxe window 2.0 ventilated with integrated drive</b>	
④	<b>+ Opening system (optional)</b>	_____ €
④a	<b>for daily ventilation by using a spindle or motor opener</b> incl. vent frame	
	or	
④b	<b>Roof hatch, if applicable in combination with opening system for daily ventilation</b> incl. vent frame	
	or	
④c	<b>Vent frame as single component, e.g. for retrofitting.</b> A spindle opener, motor opener or roof hatch is additionally required.	
<b>= Total amount</b>		_____ €

### alwitra Rooflights and Kerbs








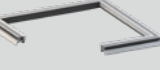
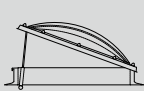
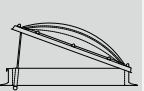
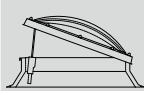
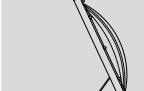
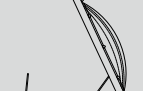


Product	Nominal size <sup>1</sup> = roof opening size	Kerb <sup>2</sup>		Rooflight <sup>3</sup>			Complete rigid (Kerb + Rooflight)		
									
		Kerb	factory-fitted flashing collar EVALON®/EVALASTIC®	U value: 2.90 [W/m²K] 2S PMMA <sup>4</sup> opal	U value: 1.70 [W/m²K] 3S PMMA <sup>4</sup> opal	U value: 1.30 [W/m²K] 2S WD <sup>5</sup> opal	Kerb + 2S rigid	Kerb + 3S rigid	Kerb + 2S WD rigid
		€/piece	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece

		①	②	③			① + ③		
<b>Kerb 1620</b> Height 16 cm, U value: 0.92 [W/m²K] Nominal size = roof opening size Daylight size = roof opening size - 20 cm 	60/60	287.00	211.00	145.00	203.00	250.00	432.00	490.00	537.00
	60/90	321.00	224.00	203.00	284.00	-	524.00	605.00	-
	80/80	340.00	229.00	242.00	330.00	404.00	582.00	670.00	744.00
	90/90	392.00	237.00	280.00	382.00	489.00	672.00	774.00	881.00
	90/120	433.00	250.00	359.00	490.00	609.00	792.00	923.00	1,042.00
	100/100	427.00	246.00	322.00	441.00	542.00	749.00	868.00	969.00
	100/150	509.00	267.00	471.00	649.00	861.00	980.00	1,158.00	1,370.00
	120/120	474.00	263.00	417.00	578.00	737.00	891.00	1,052.00	1,211.00
150/150	588.00	289.00	665.00	919.00	1,132.00	1,253.00	1,507.00	1,720.00	
<b>Kerb 3020</b> Height 30 cm, U value: 1.0 [W/m²K] Nominal size = roof opening size Daylight size = roof opening size - 20 cm 	60/60	474.00	211.00	145.00	203.00	250.00	619.00	677.00	724.00
	60/90	540.00	224.00	203.00	284.00	-	743.00	824.00	-
	80/80	558.00	229.00	242.00	330.00	404.00	800.00	888.00	962.00
	90/90	599.00	237.00	280.00	382.00	489.00	879.00	981.00	1,088.00
	90/120	660.00	250.00	359.00	490.00	609.00	1,019.00	1,150.00	1,269.00
	100/100	637.00	246.00	322.00	441.00	542.00	959.00	1,078.00	1,179.00
	100/150	740.00	267.00	471.00	649.00	861.00	1,211.00	1,389.00	1,601.00
	120/120	716.00	263.00	417.00	578.00	737.00	1,133.00	1,294.00	1,453.00
150/150	838.00	289.00	665.00	919.00	1,132.00	1,503.00	1,757.00	1,970.00	
<b>Kerb 1600</b> Height 16 cm, U value: 1.0 [W/m²K] Nominal size = roof opening size Daylight size = roof opening size 	60/60	300.00	211.00	242.00	330.00	404.00	542.00	630.00	704.00
	60/90	354.00	224.00	318.00	439.00	592.00	672.00	793.00	946.00
	80/80	375.00	229.00	322.00	441.00	542.00	697.00	816.00	917.00
	90/90	397.00	237.00	400.00	546.00	675.00	797.00	943.00	1,072.00
	90/120	445.00	250.00	485.00	672.00	876.00	930.00	1,117.00	1,321.00
	100/100	417.00	246.00	417.00	578.00	737.00	834.00	995.00	1,154.00
	100/150	511.00	267.00	612.00	842.00	1,169.00	1,123.00	1,353.00	1,680.00
	120/120	480.00	263.00	592.00	818.00	1,049.00	1,072.00	1,298.00	1,529.00
150/150	593.00	289.00	1,098.00	1,554.00	-	1,691.00	2,147.00	-	

- = not available <sup>1</sup> further sizes on request <sup>2</sup> further kerbs (e.g. round) on request <sup>3</sup> further types (e.g. 4 shells, pyramidal) on request  
<sup>4</sup> also available in transparent; Further types with PC outer shell or PC Heatstop on request <sup>5</sup> with "curved" PC multiwall sheet



### alwitra Rooflights accessories

Opening system <sup>6</sup> incl. vent frame			Roof hatch or roof hatch with opening system <sup>6</sup> incl. vent frame				Vent frame (lockable) <sup>7</sup>
							
							
Spindle opener  incl. vent frame	Electric opening 230 V  incl. vent frame	NRA type 24  incl. vent frame	Manual roof hatch with lockable incl. vent frame	Spindle opener with manual roof hatch incl. vent frame	Electric opening 230 V with manual roof hatch incl. vent frame	NRA Typ 24 with manual roof hatch incl. vent frame	Vent frame with hinges <b>without</b> opening system
€/piece	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece	€/piece

4a			4b				4c	
368.00	749.00	778.00	-	-	-	-	209.00	S
380.00	761.00	790.00	-	-	-	-	221.00	S
391.00	772.00	801.00	683.00	664.00	1,045.00	1,074.00	232.00	S
397.00	778.00	807.00	689.00	670.00	1,051.00	1,080.00	238.00	S
412.00	793.00	822.00	780.00	723.00	1,104.00	1,133.00	253.00	S
406.00	787.00	816.00	698.00	679.00	1,060.00	1,089.00	247.00	S
442.00	1,218.00	900.00	810.00	753.00	1,529.00	1,211.00	283.00	S
420.00	1,196.00	878.00	788.00	731.00	1,507.00	1,189.00	261.00	S
476.00	1,252.00	934.00	844.00	787.00	1,563.00	1,245.00	317.00	S
368.00	749.00	778.00	-	-	-	-	209.00	S
380.00	761.00	790.00	-	-	-	-	221.00	S
391.00	772.00	801.00	683.00	664.00	1,045.00	1,074.00	232.00	S
397.00	778.00	807.00	689.00	670.00	1,051.00	1,080.00	238.00	S
412.00	793.00	822.00	780.00	723.00	1,104.00	1,133.00	253.00	S
406.00	787.00	816.00	698.00	679.00	1,060.00	1,089.00	247.00	S
442.00	1,218.00	900.00	810.00	753.00	1,529.00	1,211.00	283.00	S
420.00	1,196.00	878.00	788.00	731.00	1,507.00	1,189.00	261.00	S
476.00	1,252.00	934.00	844.00	787.00	1,563.00	1,245.00	317.00	S
391.00	772.00	801.00	683.00	664.00	1,045.00	1,074.00	232.00	S
400.00	781.00	810.00	692.00	673.00	1,054.00	1,083.00	241.00	S
406.00	787.00	816.00	698.00	679.00	1,060.00	1,089.00	247.00	S
417.00	798.00	827.00	709.00	690.00	1,071.00	1,100.00	258.00	S
435.00	1,211.00	1,097.00	803.00	746.00	1,522.00	1,408.00	276.00	S
420.00	1,196.00	1,082.00	788.00	731.00	1,507.00	1,393.00	261.00	S
772.00	2,167.00	2,010.00	974.00	1,083.00	2,478.00	2,321.00	321.00	T
442.00	1,218.00	1,104.00	810.00	753.00	1,529.00	1,415.00	283.00	S
806.00	2,201.00	2,044.00	-	-	-	-	355.00	T

- = not available S = type Solo T = type Tandem

<sup>6</sup> for daily ventilation, incl. all hardware / consoles <sup>7</sup> A spindle opener, motor opener or roof hatch is additionally required.

## Fall-through protection grating


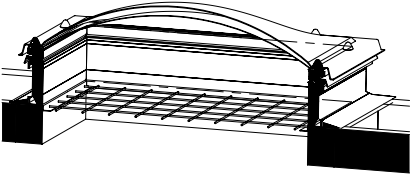
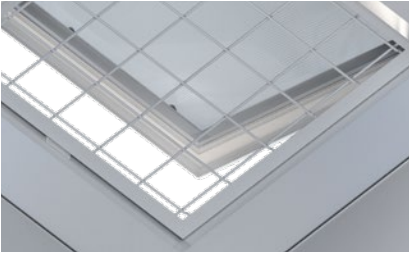
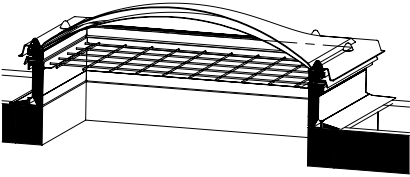
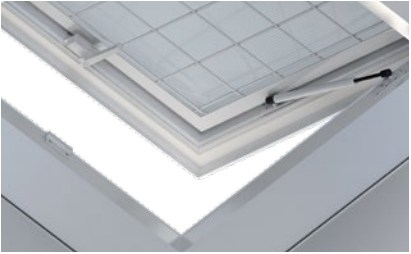
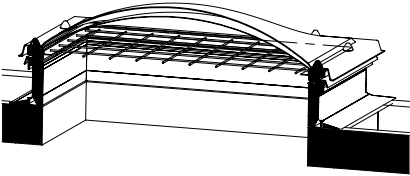
### alwitra fall-through protection grating for alwitra Rooflights and Kerbs

Certified according GS-BAU 18

Product	Ordering size *	€/piece
	Width x Length [cm]	
<p><b>alwitra fall-through protection grating</b></p> <p>galvanised and coloured in white (~ RAL 9016)</p> 	40 x 40	<b>403.00</b>
	40 x 70	<b>466.00</b>
	60 x 60	<b>506.00</b>
	60 x 90	<b>563.00</b>
	70 x 70	<b>555.00</b>
	70 x 100	<b>580.00</b>
	80 x 80	<b>580.00</b>
	80 x 130	<b>623.00</b>
	90 x 90	<b>592.00</b>
	90 x 120	<b>643.00</b>
	100 x 100	<b>643.00</b>
	100 x 150	<b>686.00</b>
	120 x 120	<b>666.00</b>
	130 x 130	<b>686.00</b>
150 x 150	<b>791.00</b>	


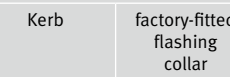

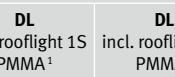
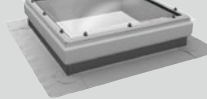
\* further sizes on request

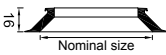
### Installation methods alwitra fall-through protection grating

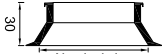
	dimensions	Installation methods
		<p><b>1. In the roof opening</b></p> <p>(on the substructure under the kerb)</p> <p>order size = roof opening size (nominal size)</p>
		<p><b>2. In the kerb</b></p> <p>(from the topside in the kerb opening, directly underneath the rooflight respectively the vent frame)</p> <p>order size = daylight size</p>
		<p><b>3. In the vent frame</b></p> <p>(from the topside in the vent frame, directly underneath the rooflight)</p> <p>order size = daylight size Roof access hatch possibly. Not combinable with all drives/ opening systems. Possible on demand.</p>

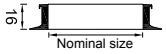
## alwitra-DayLuxe window 2.0

### alwitra Kerbs and DayLuxe window 2.0

Product	Nominal size	light area m <sup>2</sup>	Kerb <sup>2</sup>		DayLuxe window 2.0 (DL)		Complete (Kerb + DL)	
			Kerb	factory-fitted flashing collar EVALON <sup>®</sup> /EVALASTIC <sup>®</sup>	DL incl. rooflight 1S PMMA <sup>1</sup> rigid	DL incl. rooflight 1S PMMA <sup>1</sup> ventilated <sup>2</sup>	Complete Kerb+DL window+1S PMMA rigid	Complete Kerb+DL window+1S PMMA ventilated
			€/piece	€/piece	€/piece	€/piece	€/piece	€/piece
								

Kerb 1620	Nominal size	light area m <sup>2</sup>	①	②	③	③a	S	① + ③	① + ③a
			Height 16 cm, U value: 0.92 [W/m <sup>2</sup> K]	60/90	0.28	321.00		224.00	905.00
Nominal size = roof opening size	80/80	0.36	340.00	229.00	1,005.00	-	1,345.00	-	
	90/90	0.49	392.00	237.00	1,054.00	1,908.00	1,446.00	2,300.00	
Daylight size = roof opening size - 20 cm	90/120	0.7	433.00	250.00	1,248.00	2,102.00	1,681.00	2,535.00	
	100/100	0.64	427.00	246.00	1,166.00	2,020.00	1,593.00	2,447.00	
	100/150	1.04	509.00	267.00	1,521.00	2,375.00	2,030.00	2,884.00	
	120/120	1	474.00	263.00	1,417.00	2,271.00	1,891.00	2,745.00	
	150/150	1.69	588.00	289.00	1,955.00	-	2,543.00	-	

Kerb 3020	Nominal size	light area m <sup>2</sup>	①	②	③	③a	S	① + ③	① + ③a
			Height 30 cm, U value: 1.0 [W/m <sup>2</sup> K]	60/90	0.28	540.00		224.00	905.00
Nominal size = roof opening size	80/80	0.36	558.00	229.00	1,005.00	-	1,563.00	-	
	90/90	0.49	599.00	237.00	1,054.00	1,908.00	1,653.00	2,507.00	
Daylight size = roof opening size - 20 cm	90/120	0.7	660.00	250.00	1,248.00	2,102.00	1,908.00	2,762.00	
	100/100	0.64	637.00	246.00	1,166.00	2,020.00	1,803.00	2,657.00	
	100/150	1.04	740.00	267.00	1,521.00	2,375.00	2,261.00	3,115.00	
	120/120	1	716.00	263.00	1,417.00	2,271.00	2,133.00	2,987.00	
	150/150	1.69	838.00	289.00	1,955.00	-	2,793.00	-	

Kerb 1600	Nominal size	light area m <sup>2</sup>	①	②	③	③a	S	① + ③	① + ③a
			Height 16 cm, U value: 1.0 [W/m <sup>2</sup> K]	60/60	0.36	300.00		211.00	1,005.00
Nominal size = roof opening size	60/90	0.54	354.00	224.00	1,028.00	1,882.00	1,382.00	2,236.00	
	70/70	0.49	347.00	220.00	1,054.00	1,908.00	1,401.00	2,255.00	
Daylight size = roof opening size	80/80	0.64	375.00	229.00	1,166.00	2,020.00	1,541.00	2,395.00	
	90/90	0.81	397.00	237.00	1,312.00	2,166.00	1,709.00	2,563.00	
	90/120	1.08	445.00	250.00	1,537.00	2,391.00	1,982.00	2,836.00	
	100/100	1	417.00	246.00	1,417.00	2,271.00	1,834.00	2,688.00	
	100/150	1.5	511.00	267.00	1,865.00	3,359.00	2,376.00	3,870.00	
	100/200	2	593.00	289.00	2,240.00	3,734.00	2,833.00	4,327.00	
	120/120	1.44	480.00	263.00	1,784.00	2,638.00	2,264.00	3,118.00	
	150/150	2.25	593.00	289.00	2,524.00	4,018.00	3,117.00	4,611.00	

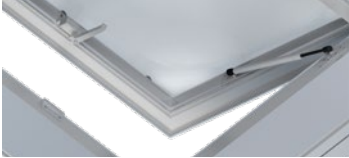
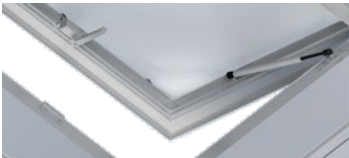
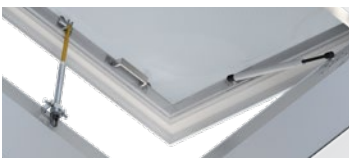
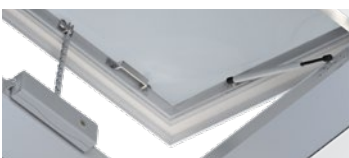
- = not available    <sup>1</sup> transparent or opal; PC-Heatstop on request    <sup>2</sup> 230 V chain drive "Aumüller KSA", integrated in the frame; temperature -5 °C... +60 °C, rel. humidity < 90 % to 20 °C; < 50 % to 40 °C; non-condensing    S = type Solo    T = type Tandem

Accessories daylight systems				Prices without rooflights and kerbs	
	Product	Product specification		€/piece	
	<b>Switch</b>	for motor opener 230 V, with reversing lock	concealed	<b>86.00</b>	
			surfaced	<b>124.00</b>	
	<b>Key switch button</b>	with profile half cylinder Function: open/closed/stop	concealed	<b>213.00</b>	
			surfaced	<b>251.00</b>	
	<b>Crank handle</b>	made of aluminium Length: 1.50 m			<b>59.00</b>
	<b>Crank handle, telescopic</b>	1.75 - 3.00 m adjustable			<b>103.00</b>
	<b>Spindle opener<sup>1</sup> Solo</b>	1 spindle opener, Lift infinitely adjustable up to 300 mm			<b>159.00</b>
	<b>Spindle opener<sup>1</sup> Tandem</b>	2 spindle opener with coupling bar, Lift infinitely adjustable up to 300 mm			<b>451.00</b>
	<b>Motor opener<sup>1</sup> 230 V Solo</b> 230 V solo ACK 42	up to daylight size 900 x 900 mm Chain feed motor 230 V, 0.32 A Lift adjustable from 100 - 400 mm			<b>540.00</b>
	<b>Motor opener<sup>1</sup> 230 V Solo</b> 230 V solo KSA 250	daylight size 1,000 x 1,000 up to 1,300 x 1,300 Chain feed motor 230 V; 0.2 A Lift 250 mm			<b>935.00</b>
	<b>Motor opener<sup>1</sup> 230 V Tandem</b> 230 V tandem KSA 250	daylight size 1,500 x 1,500 mm 2 chain feed motors 230 V; 2 x 0.2 A Lift 250 mm			<b>1,846.00</b>

<sup>1</sup> The installation is only possible with a vent frame.

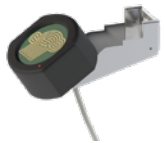


### Accessories roof hatches

Prices without rooflights and kerbs

	Product	Product specification	€/piece
	<b>Roof hatch<sup>1</sup> manual</b> with lockable opener	for alwitra rooflights max. daylight size 900 x 900 mm	<b>451.00</b>
	<b>Roof hatch<sup>1</sup> manual</b> with lockable opener	for alwitra rooflights daylight size 1,000 x 1,000 up to 1,300 x 1,300	<b>527.00</b>
	<b>Roof hatch<sup>1</sup> manual</b> in combination with a spindle drive or motor drive	for alwitra rooflights max. daylight size 900 x 900 mm	<b>273.00</b>
	<b>Roof hatch<sup>1</sup> manual</b> in combination with a spindle drive or motor drive	for alwitra rooflights daylight size 1,000 x 1,000 up to 1,300 x 1,300	<b>311.00</b>

### Accessories wind guard and rain guard systems

Prices without rooflights and kerbs



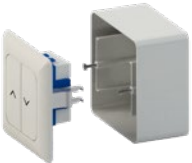
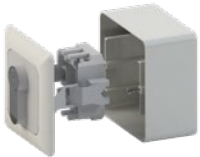

	Product	Product specification	€/piece
	<b>Rain guard Type 230</b>	For supervising of motor opener 230 V, incl. integrated evaluation circuit and installation console	<b>392.00</b>
	<b>Wind guard and rain guard WRS</b>	incl. external evaluation unit for motor opener 230 V  consisting of: wind and rain sensor, external evaluation unit, mast bracket / wall bracket Protrusion: approx. 510 mm, height: approx. 500 mm	<b>935.00</b>
	<b>Stand bracket</b>	For the installation of the rain guard type 230 or for the conversion of the wind and rain guard WRS  Standing surface: Diameter: 1,330 mm Height: 1,775 mm	<b>399.00</b>

<sup>1</sup> The installation is only possible with a vent frame. Not suitable for DayLuxe window 2.0. The use of roof exits may not be technically possible (e.g. due to installed fall-through grids). Please request.

## Natural smoke vent type 24

### Accessories







(Prices for rooflights and kerbs see page 72/73)

	Product	Product specification	€/piece
 <p>Illustration: Control unit 5 A surfaced</p>	<b>NRA Type 24</b>	In surface sheet steel housing, with emergency-power supply 24 V DC For the usage of maximum 10 release buttons and 10 smoke sensors.	
	<b>Control unit</b> 5 A for surfaced installation	<b>5 A</b> incl. 2 accumulators 12 V, each with 2.3 Ah, 1 ventilation line input Dimensions (W x H x D): 225 x 285 x 122 mm	<b>1,039.00</b>
	<b>Control unit</b> 5 A for concealed installation	<b>5 A</b> incl. 2 accumulators 12 V, each with 2.3 Ah, 1 ventilation line input Dimensions (W x H x D): 254 x 314 x 96/122 mm	<b>1,199.00</b>
	<b>Control unit</b> 10 A for surfaced installation	<b>10 A</b> incl. 2 accumulators 12 V, each with 7 Ah, 1 ventilation line input Dimensions (W x H x D): 400 x 300 x 150 mm	<b>1,363.00</b>
	<b>Control unit</b> 2 x 10 A for concealed installation	<b>2 x 10 A</b> incl. 2 accumulators 12 V, each with 7 Ah, 2 ventilation lines input Dimensions (W x H x D): 400 x 400 x 200 mm	<b>1,869.00</b>
<b>There is a minimum of 2 release buttons NRA type 24 necessary for operating.</b>			
	<b>Release button</b> for NRA control unit type 24	Surface housing with release display and control display Colours: grey, red, yellow, orange, blue	<b>146.00</b>
	<b>Ventilation switch</b> for NRA control unit type 24	without reversing lock, Function: open/closed/stop	concealed <b>85.00</b>
			surfaced <b>123.00</b>
	<b>Key button</b> for NRA control unit type 24	with profile half cylinder, Function: open/closed/stop	concealed <b>213.00</b>
			surfaced <b>251.00</b>
	<b>Smoke sensor</b> for NRA control unit type 24	with socket and release display	<b>206.00</b>
	<b>Wind guard / rain guard</b> for NRA control unit type 24	consisting of: Wind and rain sensor 24 V, bracket for mast or wall installation, clamp ring Protrusion: approx. 510 mm; height: approx. 500 mm	<b>407.00</b>

## Natural smoke vent type 24

### Opening device NRA motor opener type 24






(Prices for rooflights and kerbs see page 72/73)

	Product	Product specification	€/piece
The motor openers are factory-fitted installed in the rooflights. The installation is only possible with a vent frame			
For kerbs 1620 and 3020			
	<b>NRA motor opener Solo</b> 24 V solo ACK 44	(up to daylight size 900 x 900 mm resp. < 1.00 m <sup>2</sup> )  Chain feed motor, Lift: max. 400 mm; 24 V DC; 1.35 A	<b>569.00</b>
	<b>NRA motor opener Solo</b> 24 V solo LKS 500	(from daylight size 1,000 x 1,000 mm resp. 700 x 1,000 m)  Rack and pinion drive, Lift: 500 mm; 24 V DC; 0.8 A	<b>617.00</b>
For kerb 1600			
	<b>NRA motor opener Solo</b> 24 V solo ACK 44	(up to daylight size 900 x 900 mm resp. < 1.00 m <sup>2</sup> )  Chain feed motor, Lift: max. 400 mm; 24 V DC; 1.35 A	<b>569.00</b>
	<b>NRA motor opener Solo</b> 24 V solo KSA 500	(daylight size 1,000 x 1,000 mm and 1,200 x 1,200 mm)  Chain feed motor, Lift: 500 mm; 24 V DC; 1.2 A	<b>821.00</b>
	<b>NRA motor opener Tandem "Type Duo"</b> 24 V tandem KSA 500 DUO	(daylight size 1,500 x 1,500 mm and 1,000 x 1,500 mm)  1 drive with 2 chains, Lift: 500 mm; 24 V DC; 2.4 A	<b>1,689.00</b>
	<b>NRA motor opener Tandem</b> 24 V tandem KSA 500	(daylight size ≥ 2,000 x ≥ 600 mm)  2 drives with 2 chains, Lift: 500 mm; 24 V DC; 2 x 1.2 A	<b>1,643.00</b>









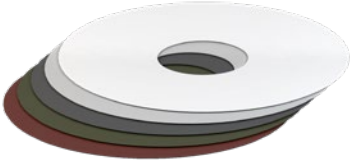



# Flat roof drainage


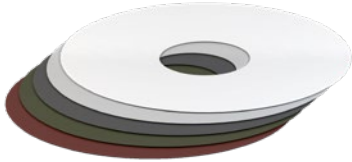
alwitra rainwater outlets			
	Product	Dimension	€/piece
	<p><b>Rainwater outlet S 125/110</b>  <b>DN 125 (OD 125 mm) and DN 100 (OD 110 mm), vertical outlet</b></p> <p>Thermally insulated alwitra rainwater outlet vertical, made of polypropylen (PP), DN 125 (OD 125 mm), incl. reducer to DN 100 (OD 110 mm), screw ring, leaf guard and gravel stop</p> <p>required Ø of the ceiling opening: approx. 185 up to 200 mm</p>	DN 125 and DN 100	<b>80.00</b>
	<p><b>Rainwater outlet SH 125/110,</b>  <b>DN 125 (OD 125 mm) and DN 100 (OD 110 mm), vertical outlet, heatable</b></p> <p>Thermally insulated, heatable rainwater outlet vertical, made of polypropylen (PP), connection to 230 V AC, DN 125 (OD 125 mm), incl. reducer to DN 100 (OD 110 mm), screw ring, leaf guard and gravel stop. Connection only with a thermostat (see accessories page 90)</p> <p>required Ø of the ceiling opening: approx. 185 up to 200 mm</p>	DN 125 and DN 100	<b>184.00</b>
	<p><b>Adapter 125/160, eccentric</b></p> <p>for connecting the rainwater outlets S 125/110 and SH 125/110 to downpipes DN 150 (OD 160 mm)</p>	DN 125 to DN 150	<b>23.00</b>
	<p><b>Reducer 125/75, eccentric</b></p> <p>for connecting the rainwater outlets S 125/110 and SH 125/110 to downpipes DN 70 (OD 75 mm)</p>	DN 125 to DN 70	<b>10.00</b>
	<p><b>Parapet outlet W75</b>  <b>for roof or emergency drainage</b></p> <p>Attic outlet as a set consisting of:</p> <ul style="list-style-type: none"> <li>· Rainwater outlet W75 with factory fitted flashing collar made of EVALON® or EVALASTIC®</li> <li>· Screw ring, emergency outlet socket 40, leaf guard and gravel stop</li> <li>· Base plate DN 70 made of aluminium for flashing against a vapour barrier</li> <li>· Factory fitted insulation corpus made of XPS with straight outer edges for an easy connection to the horizontal surface insulation; dimensions: 675 x 500 x 160 mm</li> <li>· Connection pipe made of stainless steel DN 70 (OD 75 mm): length 1,000 mm; satin silver pipe with sleeve as free outlet or for connecting towards standard DN drainage pipes</li> </ul> <p>Also available with heated rainwater outlet (230 V AC). Price on request.</p>		<b>395.50</b>

### alwitra rainwater outlets

	Product	Dimension	€/piece
	<p><b>Rainwater outlet W 125, DN 125 (OD 125 mm), horizontal outlet</b></p> <p>Thermally insulated rainwater outlet with horizontal outlet, made of polypropylen (PP), DN 125 (OD 125 mm), incl. screw ring, leaf guard and gravel stop</p> <p>Installation height: 200 mm The necessary ceiling opening is approx. 190 x 280 mm</p>	DN 125	103.00
	<p><b>Rainwater outlet WH 125, DN 125 (OD 125 mm), horizontal outlet, heatable,</b></p> <p>Thermally insulated, heatable rainwater outlet with horizontal outlet, made of polypropylen (PP), connection to 230 V AC, DN 125 (OD 125 mm), incl. screw ring, leaf guard and gravel stop, Connection only with a thermostat (see accessories page 90)</p> <p>Installation height: 200 mm The necessary ceiling opening is approx. 190 x 280 mm</p>	DN 125	198.00
	<p><b>Rainwater outlet W 75/110, DN 70 (OD 75 mm) and DN 100 (OD 110 mm), horizontal outlet</b></p> <p>Thermally insulated rainwater outlet with horizontal outlet, made of polypropylen (PP), DN 70 (OD 75 mm) and DN 100 (OD 110 mm), incl. adapter to DN 100 (OD 110 mm), screw ring, leaf guard and gravel stop</p> <p>Installation height: 110 mm The necessary ceiling opening is approx. 190 x 250 mm</p>	DN 70 and DN 100	103.00
	<p><b>Rainwater outlet WH 75/110, DN 70 (OD 75 mm) and DN 100 (OD 110 mm), horizontal outlet, heatable</b></p> <p>Thermally insulated, heatable rainwater outlet with horizontal outlet, made of polypropylen (PP), connection to 230 V AC, DN 70 (OD 75 mm) and DN 100 (OD 110 mm), incl. adapter to DN 100 (OD 110 mm), screw ring, leaf guard and gravel stop, Connection only with a thermostat (see accessories page 90)</p> <p>Installation height: 110 mm The necessary ceiling opening is approx. 190 x 250 mm</p>	DN 70 and DN 100	198.00

alwitra rainwater outlets			
	Product	Dimension	€/piece
	<b>Extension elements</b> Fitting all alwitra rainwater outlets, for bridging thermal insulation layers of warm roofs, made of polypropylen (PP), incl. screw ring and connecting flange made of EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey, slate grey matt), Pipe diameter: approx. 120 mm		
	<b>Extension element 200</b> for thermal insulation thicknesses from 50 - 200 mm	50 - 200 mm	<b>69.00</b>
	<b>Extension element 400</b> for thermal insulation thicknesses from 50 - 400 mm	50 - 400 mm	<b>96.00</b>
	<b>Extension element SL</b> for thermal insulation thicknesses from > 400 mm as individual length according to customer specification	> 400 mm	<b>124.00</b>
	<b>Extension element UKD (inverted roof)</b> Fitting all alwitra rainwater outlets, for bridging thermal insulation layers of inverted roofs, made of polypropylen (PP), incl. screw ring for connection to the trickle protection		
	<b>UKD 200</b> for thermal insulation thicknesses at inverted roofs up to 200 mm	up to 200 mm	<b>75.50</b>
	<b>UKD 400</b> for thermal insulation thicknesses at inverted roofs up to 400 mm	up to 400 mm	<b>103.00</b>
	<b>Connecting flange</b> Fitting all alwitra rainwater outlets and extension elements, OD 480 mm, thickness 1.5 mm for flashing against the roof waterproofing	OD 480 mm	
	EVALON® (white, light grey, slate grey, green, brick red)		<b>12.00</b>
	EVALASTIC® (light grey, slate grey matt)		<b>12.00</b>
	<b>Connecting flange bitumen</b> fitting all alwitra rainwater outlets, OD 500 mm, thickness approx. 5 mm for flashing against vapour barriers made of bitumen	OD 500 mm	<b>20.50</b>

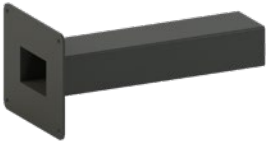



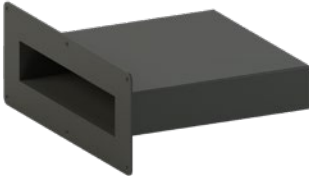
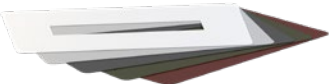
### alwitra emergency outlets

	Product	Dimension	€/piece
	<b>Emergency outlet sockets</b> Ponding element for easy conversion of all alwitra rainwater outlets and extension elements (200, 400, SL) into emergency outlets with a specified ponding height		
	<b>Emergency outlet socket 40</b> ponding height 20 - 40 mm, adjustable by cutting	20 - 40 mm	<b>41.00</b>
	<b>Emergency outlet socket 100</b> ponding height 20 - 100 mm, adjustable by cutting	20 - 100 mm	<b>48.00</b>
	<b>Emergency outlet socket SL</b> special length prefabricated ponding height (20 - 95 mm in 5 mm steps)	20 - 95 mm	<b>55.00</b>
	<b>Connecting flange</b> fitting all alwitra rainwater outlets and extension elements, OD 480 mm, thickness 1.5 mm for flashing against the roof waterproofing	OD 480 mm	
	EVALON® (white, light grey, slate grey, green, brick red)		<b>12.00</b>
	EVALASTIC® (light grey, slate grey matt)		<b>12.00</b>

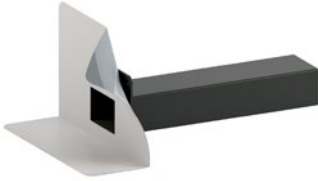
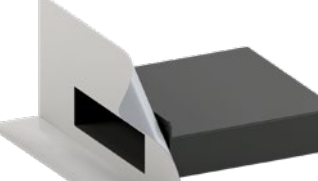

alwitra refurbishment rainwater outlets			
	Product	Dimension	€/piece
	<b>Refurbishment rainwater outlet 125</b> · for existing rainwater outlets DN 125 (OD 125 mm) and DN 150 (OD 160 mm), · for thermal insulation thicknesses 50 - 200 mm, incl. - refurbishment ring made of PP with rollring and extension element 200, - connecting flange made of EVALON® or EVALASTIC®, - leaf guard and gravel stop  for roof waterproofings made of	DN 125	
	EVALON® (white, light grey, slate grey, green, brick red)		<b>96.00</b>
	EVALASTIC® (light grey, slate grey matt)		<b>96.00</b>
	<b>Refurbishment rainwater outlet 110</b> · for existing rainwater outlets DN 100 (OD 110 mm), · for thermal insulation thicknesses 0 - 300 mm, incl. - refurbishment plate made of aluminium DN 100 with lip seal, - refurbishment element DN 100 (OD 110 mm) made of PVC-U with integrated connecting flange made of EVALON® or EVALASTIC® (490 x 490 mm), - wired domed leaf guard  for roof waterproofings made of	DN 100	
	EVALON® (white, light grey, slate grey)		<b>112.50</b>
	EVALASTIC® (light grey, slate grey matt)		<b>153.50</b>
	<b>Refurbishment rainwater outlet 75</b> · for existing rainwater outlets DN 70 (OD 75 mm) and DN 90 (OD 90 mm), · for thermal insulation thicknesses 0 - 300 mm, incl. - refurbishment plate made of aluminium DN 70 with lip seal, - refurbishment element DN 70 (OD 75 mm) made of PVC-U with integrated connecting flange made of EVALON® or EVALASTIC® (340 x 340 mm), - wired domed leaf guard  for roof waterproofings made of	DN 70	
	EVALON® (white, light grey, slate grey)		<b>95.50</b>
	EVALASTIC® (light grey, slate grey matt)		<b>131.50</b>
	<b>Backflow sealing</b>  Flexible multiple-lip seal for the backflowproofed flashing of pipes or drainage elements DN 50 - DN 125 towards vertical pipes without a sleeve		
	<b>DN 50</b> (OD 50 mm) for pipes ID min. 61 - max. 77 mm	DN 50	<b>19.00</b>
	<b>DN 70</b> (OD 75 mm) for pipes ID min. 87 - max. 108 mm	DN 70	<b>20.00</b>
	<b>DN 90</b> (OD 90 mm) for pipes ID min. 105 - max. 111 mm	DN 90	<b>23.00</b>
	<b>DN 100</b> (OD 110 mm) for pipes ID min. 120 - max. 135 mm	DN 100	<b>27.50</b>
	<b>DN 125</b> (OD 125 mm) for pipes ID min. 140 - max. 152 mm	DN 125	<b>42.00</b>

## alwitra water spouts (emergency outlets)

### alwitra water spouts EVALON® (emergency outlets)

	Product	Dimension	€/piece
	<b>Water spout type SF rectangular, 80/120</b>  Water spout with rectangular pipe, approx. 80 x 120 mm, as emergency outlet, made of PVC-U with a vertical welding flange  Connecting flanges made of EVALON® are directly welded on the flange	80 x 120 mm	
	<b>Pipe length 500 mm</b>		<b>147.50</b>
	<b>Pipe length up to 1,000 mm on order</b>		<b>181.50</b>
	<b>Connecting flange for water spout SF rectangular, 80/120</b>  Custom-fit connecting flange made of EVALON® (white, light grey, slate grey)	430 x 390 mm	<b>14.50</b>
	<b>Water spout type SF rectangular, 100/300</b>  Water spout with rectangular pipe, approx. 100 x 300 mm, as emergency outlet, made of PVC-U with a vertical welding flange  Connecting flanges made of EVALON® are directly welded on the flange	100 x 300 mm	
	<b>Pipe length 500 mm</b>		<b>161.50</b>
	<b>Pipe length up to 1,000 mm on request</b>		<b>203.50</b>
	<b>Connecting flange for water spout SF rectangular, 100/300</b>  Custom-fit connecting flange made of EVALON® (white, light grey, slate grey, green, brick red)	600 x 450 mm	<b>14.50</b>
	<b>Water spout type SF rectangular, 100/500</b>  Water spout with rectangular pipe, approx. 100x500 mm, as emergency outlet, made of PCV-U with a vertical welding flange  Connecting flanges made of EVALON® are directly welded on the flange	100 x 500 mm	
	<b>Pipe length 500 mm</b>		<b>211.00</b>
	<b>Pipe length up to 1,000 mm on order</b>		<b>271.50</b>
	<b>Connecting flange for water spout SF rectangular, 100/500</b>  Custom-fit connecting flange made of EVALON® (white, light grey, slate grey, green, brick red)	770 x 450 mm	<b>14.50</b>

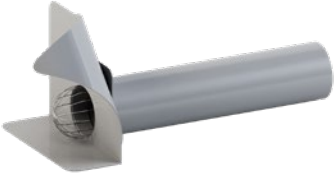
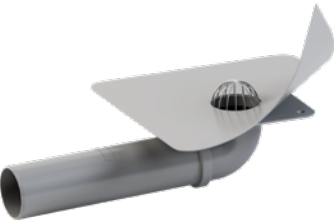
## alwitra water spouts (emergency outlets)

alwitra water spouts EVALON® (emergency outlets)			
	Product	Dimension	€/piece
	<b>Water spout type SW rectangular, 80/120</b> Water spout with rectangular pipe approx. 80 x 120 mm, as emergency outlet, made of PVC-U with angled welding flange and factory-fitted EVALON® connecting flange (white, light grey, slate grey), Ponding height 20 - 45 mm (in 5 mm steps) according to customer specification	80 x 120 mm	
	<b>Pipe length 500 mm</b>		<b>189.00</b>
	<b>Pipe length up to 1,000 mm on order</b>		<b>223.00</b>
	<b>Water spout type SW rectangular, 100/300</b> Water spout with rectangular pipe approx. 100 x 300 mm, as emergency outlet, made of PVC-U with angled welding flange and factory-fitted EVALON® connecting flange (white, light grey, slate grey, green, brick red), Ponding height 20 - 45 mm (in 5 mm steps) according to customer specification	100 x 300 mm	
	<b>Pipe length 500 mm</b>		<b>206.00</b>
	<b>Pipe length up to 1,000 mm on order</b>		<b>249.00</b>
	<b>Water spout type SW rectangular, 100/500</b> Water spout with rectangular pipe approx. 100 x 500 mm, as emergency outlet, made of PVC-U with angled welding flange and factory-fitted EVALON® connecting flange (white, light grey, slate grey, green, brick red), Ponding height 20 - 45 mm (in 5 mm steps) according to customer specification	100 x 500 mm	
	<b>Pipe length 500 mm</b>		<b>257.50</b>
	<b>Pipe length up to 1,000 mm on order</b>		<b>318.00</b>
	<b>Water spout type S</b> Round emergency outlet made of PVC-U with factory-fitted with EVALON® connecting flange (white, light grey, slate grey, green, brick red), incl. wired domed leaf guard optional base plate for the connection to the vapor barrier see page 90		
	<b>Pipe length 500 mm</b>	DN 50	<b>31.50</b>
		DN 70	<b>36.00</b>
		DN 100	<b>42.50</b>
	<b>Pipe length up to 1,000 mm on order</b>	DN 50	<b>46.50</b>
		DN 70	<b>51.50</b>
DN 100		<b>62.50</b>	
	<b>Water spout type SF</b> Round emergency outlet made of PVC-U with factory-fitted with EVALON® connecting flange (white, light grey, slate grey), incl. wired domed leaf guard Pipe length 500 mm optional base plate for the connection to the vapor barrier see page 90 (not available for DN 90)	DN 50	<b>40.00</b>
		DN 70	<b>44.00</b>
		DN 90	<b>52.50</b>
		DN 100	<b>58.50</b>
		DN 125	<b>67.00</b>
		DN 150	<b>82.00</b>





## alwitra water spouts (emergency outlets)





### alwitra water spouts EVALON® (emergency outlets)

	Product	Dimension	€/piece
	<p><b>Water spout type SW</b></p> <p>Round emergency outlet made of PVC-U with angled flange (production-related accumulation height approx. 5 mm) and factory-fitted EVALON® connecting flange (white, light grey, slate grey),</p> <p>incl. wired domed leaf guard</p> <p>Pipe length 400 mm</p> <p>optional base plate for the connection to the vapor barrier see page 90</p>	DN 50	<b>43.00</b>
		DN 70	<b>47.00</b>
		DN 100	<b>61.50</b>
	<p><b>Water spout type VF</b></p> <p>Round emergency outlet made of PVC-U with vertical entry, horizontal flange and factory-fitted EVALON® connecting flange (white, light grey, slate grey),</p> <p>incl. wired domed leaf guard</p> <p>Pipe length 300 mm</p> <p>optional base plate for the connection to the vapor barrier see page 90</p>	DN 50	<b>52.50</b>
		DN 70	<b>64.00</b>

### alwitra water spouts EVALASTIC® (emergency outlets)





	Product	Dimension	€/piece
	<p><b>Water spout type SF EVALASTIC®</b></p> <p>Round emergency outlet made of PP with flange and factory-fitted EVALASTIC® connecting flange (light grey, slate grey matt),</p> <p>incl. wired domed leaf guard</p> <p>Pipe length 500 mm</p> <p>optional base plate for the connection to the vapor barrier see page 90</p>	DN 70	<b>80.50</b>
		DN 100	<b>100.00</b>
	<p><b>Water spout type SW EVALASTIC®</b></p> <p>Round emergency outlet made of PP with angled flange (production-related accumulation height approx. 5 mm) and factory-fitted EVALASTIC® connecting flange (light grey, slate grey matt),</p> <p>incl. wired domed leaf guard</p> <p>Pipe length 500 mm</p> <p>optional base plate for the connection to the vapor barrier see page 90</p>	DN 70	<b>87.00</b>
		DN 100	<b>108.50</b>

### Accessories and spare parts rainwater outlets / emergency outlets


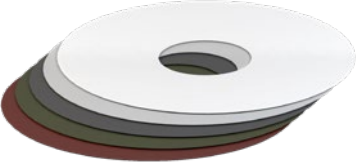

	Product	Dimension	€/piece
	<p><b>Thermostat, with external outdoor temperature sensor, 230 V AC</b></p> <p>For energy-saving control of all heatable alwitra rainwater outlets, switching on and switching off threshold can be controlled separately, for the control of 1 up to 50 rainwater outlets at the same time, DIN rail mounting</p>		<b>235.00</b>
	<p><b>Screwing aid</b></p> <p>For secure installation of the screw ring of all alwitra rainwater outlets, extension elements and emergency outlet sockets</p>		<b>on request</b>
	<p><b>Bellows</b></p> <p>For the flexible connection of rainwater outlets S 125/110 or SH 125/110 to downpipes DN 125 (OD 125 mm), DN 100 (OD 110 mm) or DN 70 (OD 75 mm),</p> <p>e.g. in load carrying constructions made of trapezoidal sheet metal, incl. stainless steel bracket</p>	<p>DN 125 to DN 125</p> <p>DN 125 to DN 100</p> <p>DN 125 to DN 70</p>	<b>63.00</b>
	<p><b>Base plate/refurbishment plate</b></p> <p>As a pipe penetration and to connect a water spout or DN pipe to a vapor barrier, made of aluminium,</p> <p>OD approx. 320 mm, bendable on site,</p> <p>incl. lip ring</p>	<p>DN 50</p> <p>DN 70</p> <p>DN 100</p> <p>DN 125</p>	<p><b>46.50</b></p> <p><b>51.50</b></p> <p><b>54.00</b></p> <p><b>57.00</b></p>

### Accessories and spare parts rainwater outlets / emergency outlets

	Product	Dimension	€/piece
	<p><b>Reducer 125/75, eccentric</b></p> <p>For the connection of rainwater outlets S 125/110 resp. SH 125/110 to downpipes DN 70 (OD 75 mm)</p>	DN 125 to DN 70	<b>10.00</b>
	<p><b>Adapter 125/160, eccentric</b></p> <p>For the connection of rainwater outlets S 125/110 resp. SH 125/110 to downpipes DN 150 (OD 160 mm)</p>	DN 125 to DN 150	<b>23.00</b>
	<p><b>Adapter 75/110, eccentric</b></p> <p>For the connection of rainwater outlets W 75/110 resp. WH 75/110 to pipes DN 100 (OD 110 mm), as a spare part</p>	DN 70 to DN 100	<b>10.00</b>
	<p><b>Reducer 125/110, eccentric</b></p> <p>For the connection of rainwater outlets S 125/110 resp. SH 125/110 to downpipes DN 100 (OD 110 mm), as a spare part</p>	DN 125 to DN 100	<b>10.00</b>

Accessories and spare parts rainwater outlets / emergency outlets			
	Product	Dimension	€/piece
	<p><b>Leaf guard and gravel stop</b></p> <p>Fitting all alwitra rainwater outlets, extension elements and emergency outlet sockets, as a spare part</p>		7.50
	<p><b>Downpipe adapter</b></p> <p>DN 100 (OD 110 mm) to pipe ID ~100 mm for the backflow-proofed connection of pipes DN 100 (OD 110 mm) to vertical downpipes with an ID of 97 - 103 mm</p>		20.50
	<p><b>alwitra screw ring</b></p> <p>Made of PVC-U, fitting all alwitra rainwater outlets and expansion elements, as a spare part</p>		5.50
	<p><b>Gasket oval</b></p> <p>For the backflow-proofed flashing of the connecting flange underneath the screw ring or emergency outlet socket of all alwitra rainwater outlets, extension elements and emergency outlet sockets, as a spare part</p>		3.50

### Accessories and spare parts rainwater outlets / emergency outlets

	Product	Dimension	€/piece
	<p><b>Rollring</b></p> <p>Fitting all alwitra rainwater outlets, for flashing to the extension elements, as a spare part</p>		<b>3.50</b>
	<p><b>Connecting flange</b></p> <p>Custom-fit for all alwitra rainwater outlets and expansion elements, OD 480 mm, thickness 1.5 mm</p> <p>for flashing to the roof waterproofing made of</p>	OD 480 mm	
	<p>EVALON® (white, light grey, slate grey, green, brick red)</p>		<b>12.00</b>
	<p>EVALASTIC® (light grey, slate grey matt)</p>		<b>12.00</b>
	<p><b>Connecting flange bitumen</b></p> <p>Custom-fit for all alwitra rainwater outlets, OD 500 mm, thickness approx. 5 mm, for flashing against vapour barriers made of bitumen</p>	OD 500 mm	<b>20.50</b>






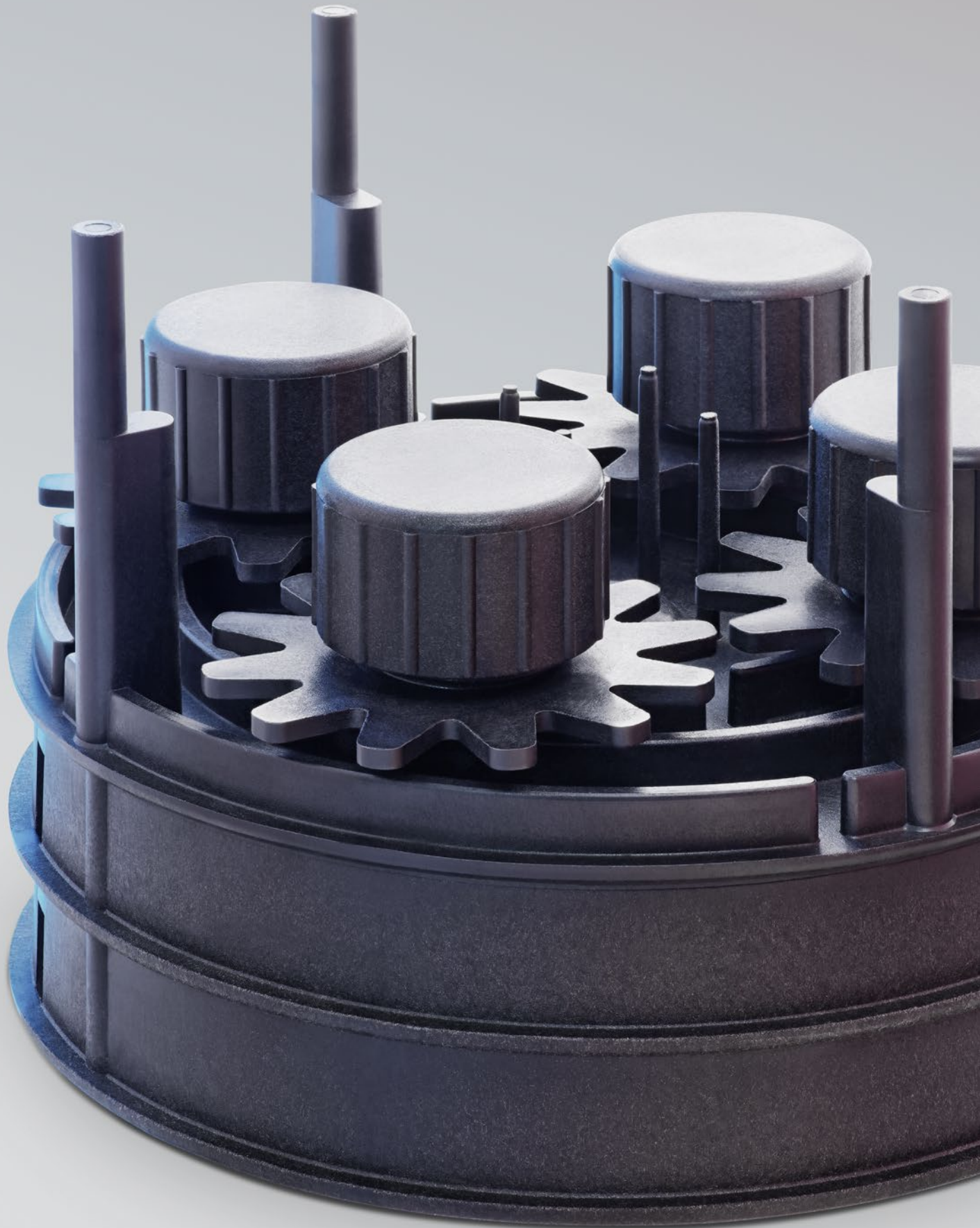
# Flat roof vents

alwitra flat roof vents and accessories			
	Product	Dimension	€/piece
	<b>Vent stack 300</b> For flashing to downpipes DN 125 (OD 125 mm) incl. reducer to DN 100 (OD 110 mm), for thermal insulation thicknesses from 0 - 300 mm, with integrated connecting flange made of EVALON® or EVALASTIC® and removable vent cowl  The necessary opening in the supporting structure is approx. Ø 190 - 200 mm  for roof waterproofings made of	DN 125 to DN 100	
	EVALON® (white, light grey, slate grey, green, brick red)		<b>100.50</b>
	EVALASTIC® (light grey, slate grey matt)		<b>100.50</b>
	<b>Vent stack SL</b> For flashing to downpipes DN 125 (OD 125 mm) incl. reducer to DN 100 (OD 110 mm), for thermal insulation thicknesses > 300 mm as special length according to customer specification, with integrated connecting flange made of EVALON® or EVALASTIC® and removable vent cowl  The necessary opening in the supporting structure is approx. Ø 190 - 200 mm  for roof waterproofings made of	DN 125 to DN 100	
	EVALON® (white, light grey, slate grey, green, brick red)		<b>136.50</b>
	EVALASTIC® (light grey, slate grey matt)		<b>136.50</b>
	<b>Reducer 125/75, eccentric</b>  For flashing of the vent stack to downpipes DN 70 (OD 75 mm)	DN 125 to DN 70	<b>10.00</b>
	<b>Bellows</b>  For the flexible connection of vent stacks DN 125 (OD 125 mm) to downpipes DN 125 (OD 125 mm), DN 100 (OD 110 mm) or DN 70 (OD 75 mm), e.g. in load carrying constructions made of trapezoidal sheet metal,  incl. stainless steel bracket	DN 125 to DN 125	<b>63.00</b>
		DN 125 to DN 100	
		DN 125 to DN 70	
	<b>Cold roof vent 125</b>  Vent cross section ~ 110 cm <sup>2</sup> incl. condensate drip pan, removable vent cowl, weather cap and integrated connecting flange made of EVALON® or EVALASTIC®  The necessary opening in the supporting structure is approx. Ø 150 mm  for roof waterproofings made of	DN 125	
	EVALON® (white, light grey, slate grey, green, brick red)		<b>93.50</b>
	EVALASTIC® (light grey, slate grey matt)		<b>93.50</b>



alwitra flat roof vents and accessories

	Product	Dimension	€/piece
	<p><b>Vent cowl for refurbishment vent</b></p> <p>Vent cowl made of PE for refurbishment vent, as a spare part</p>		8.50
	<p><b>Weather cap</b></p> <p>For the rain-proof upper finish of the vent stack / cold roof vent</p>		7.50
	<p><b>Vent cowl for vent stack and cold roof vent</b></p> <p>Vent cowl made of PP, as a spare part</p>		7.50



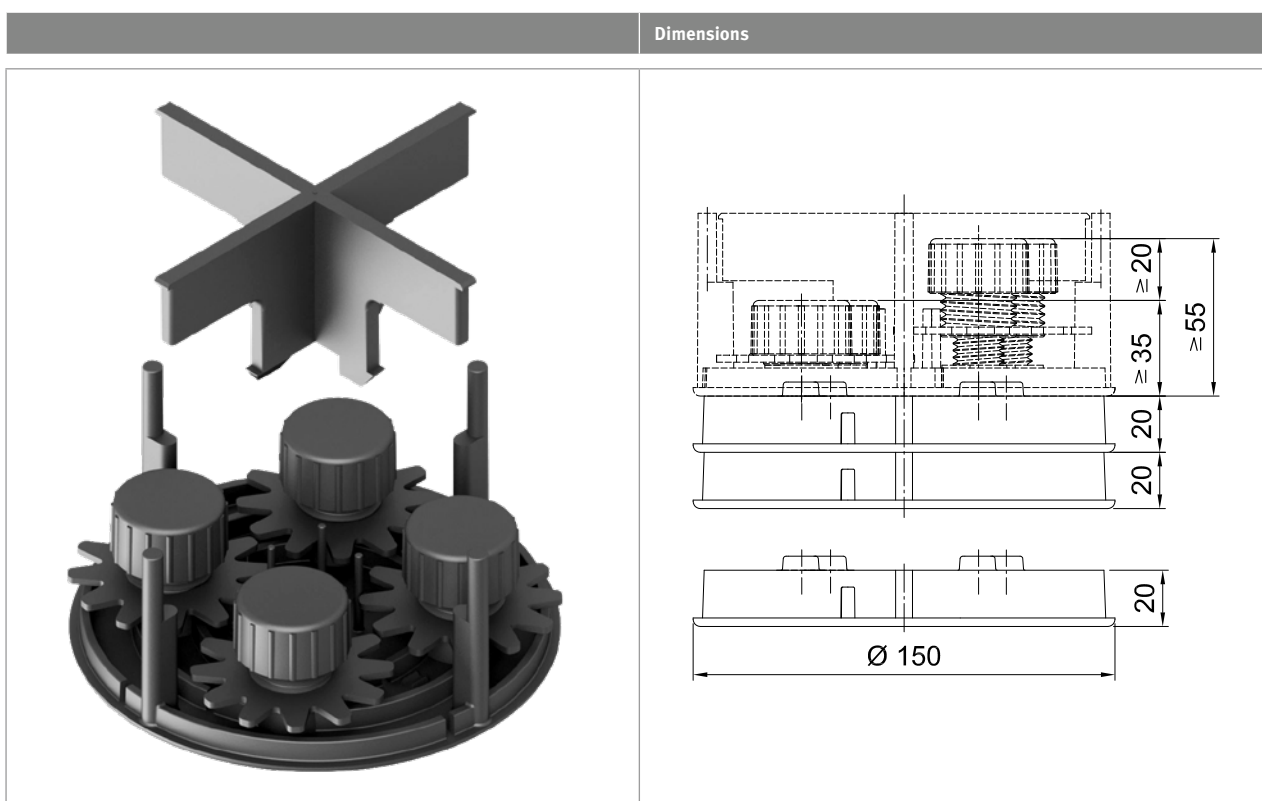
# Paving slab supports



### Paving slab support type PA 20 plus with gap cross

Product specification	Packing unit (PU)		Requirement <sup>1</sup>		€/piece
	Piece/carton	Piece/pallet	Piece/m <sup>2</sup> at paving size 40 / 40 / 4 cm	Piece/m <sup>2</sup> at paving size 50 / 50 / 4 (5) cm	
patent-registered, back-tracking lock, height adjustment, made of weather and temperature resistant polyamide	24	1,440	approx. 6.3	approx. 4	4.55

### Paving slab support type PA 20 plus with gap cross



### Technical data

Base area	Installation <sup>2</sup>	Height adjustment	Load capacity	Drainage gaps (gap width)	Temperature resistance	Material
175 cm <sup>2</sup>	on protection layer	from 35 - 55 mm (20 mm)	4 x 2 kN/paving support	6 mm	from -30 °C to +100 °C	plastics PP-H GF30, black

<sup>1</sup> Additional requirements by using of complete paving supports and pared paving at the paving edges has to be noted


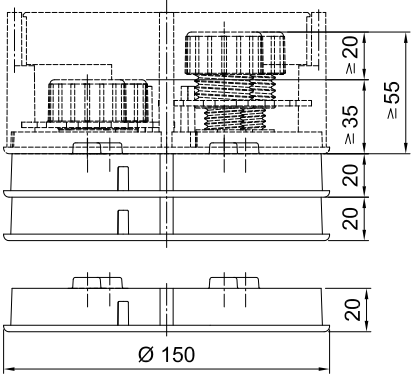
<sup>2</sup> With safety device of the paving against lateral movement at the terrace edge

## Shim

### Shim 20 mm for paving slab supports, type PA 20 plus with gap cross

Product specification	Packing unit (PU)		Requirement	€/piece
	Piece/carton	Piece/pallet		
stackable, made of weather and temperature resistant polyamide	48	2,880	<b>Assessment of demand see table on next page</b>	<b>1.45</b>

### Shim 20 mm for paving slab supports, type PA 20 plus with gap cross

	Dimensions	Quantity of shims	Height in mm
		without	35 - 55
		1	55 - 75
		2	75 - 95
		3	95 - 115
		4	115 - 135
		5	135 - 155
		6	155 - 175
		7	175 - 195

### Technical data

Base area	Installation <sup>1,2</sup>	Height adjustment	Load capacity	Temperature resistance	Material
175 cm <sup>2</sup>	on protection layer	from 20 mm	8 kN/shim	from -30 °C to +100 °C	plastics PP-H GF30, black

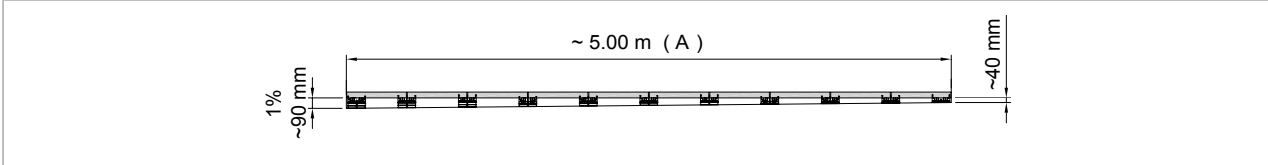
<sup>1</sup> With safety device of the pavings against lateral movement at the terrace edge

<sup>2</sup> Max. 7 shims below one paving support

## Calculation of the required shims

Calculation of the required shims for PA 20 plus in case of slope differences between bottom and pavings.

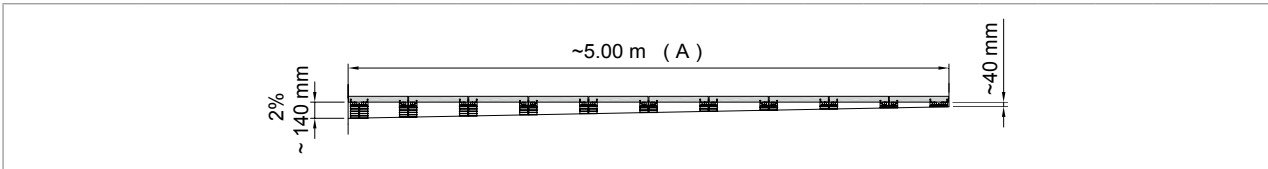
### Slope difference waterproofing membrane - pavings 1 %



Paving size 50 x 50 cm		Length B [m]																
Slope length A [m]	Shims/line up	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
up to 1.50 m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.00	1	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
2.50	2	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
3.00	3	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63
3.50	4	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84
4.00	6	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126
4.50	8	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168
5.00	10	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210

1 % = 10 mm height difference/m Quantity of shims

### Slope difference waterproofing membrane - pavings 2 %

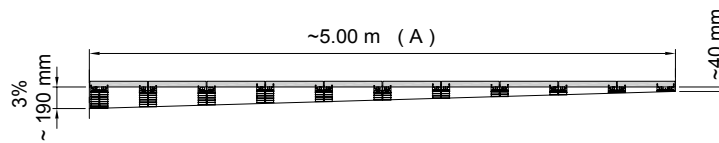


Paving size 50 x 50 cm		Length B [m]																
Slope length A [m]	Shims/line up	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
up to 0.50 m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.00	1	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1.50	2	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
2.00	4	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84
2.50	6	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126
3.00	9	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180	189
3.50	12	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252
4.00	16	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336
4.50	20	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420
5.00	25	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525

2 % = 20 mm height difference/m Quantity of shims

## Calculation of the required shims

### Slope difference waterproofing membrane - pavings 3 %



Paving size 50 x 50 cm		Length B [m]																
Slope length A [m]	Shims/line up	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
up to 0.50 m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.00	1	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1.50	3	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63
2.00	6	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126
2.50	9	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180	189
3.00	13	65	78	91	104	117	130	143	156	169	182	195	208	221	234	247	260	273
3.50	18	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360	378
4.00	24	120	144	168	192	216	240	264	288	312	336	360	384	408	432	456	480	504
4.50	30	150	180	210	240	270	300	330	360	390	420	450	480	510	540	570	600	630
5.00	37	185	222	259	296	333	370	407	444	481	518	555	592	629	666	703	740	777

3 % = 30 mm height difference/m

Quantity of shims

Packing units EVALON®

EVALON® waterproofing membrane, standard length 25 m

Product	Width m	m <sup>2</sup> /roll	kg/roll nominal thickness		Rolls/pallet *	Approx. kg/pallet gross	
			1.2 mm	1.5 mm		1.2 mm	1.5 mm
<b>EVALON®</b> (unbacked)	1.05	26.25	41	<b>51</b>	15	635	<b>785</b>
	1.55	38.75	61	<b>76</b>	15	940	<b>1,165</b>
	2.00	50.00	79	<b>98</b>	15	1,215	<b>1,500</b>
<b>EVALON® V</b>	1.05	26.25	44	<b>54</b>	10	460	<b>585</b>
	1.55	38.75	65	<b>80</b>	10	675	<b>825</b>
	2.05	51.25	86	<b>106</b>	10	890	<b>1,090</b>
	1.09	27.25	46	<b>56</b>	10	480	<b>580</b>
	1.59	39.75	67	<b>82</b>	10	695	<b>845</b>
<b>EVALON® VG</b>	1.05	26.25		<b>55</b>	10		<b>570</b>
	1.55	38.75		<b>81</b>	10		<b>835</b>
	1.09	27.25		<b>57</b>	10		<b>590</b>
	1.59	39.75		<b>83</b>	10		<b>855</b>
<b>EVALON® VSK</b>	1.05	26.25	50	<b>59</b>	10	520	<b>610</b>
<b>EVALON® VGSK</b>	1.05	26.25		<b>60</b>	10		<b>620</b>

\* For orders in other units, we calculate a surcharge of 20.00 € per pallet



Packing units EVALON®

**EVALON® prefabricated parts/standing seam effect profile and accessories**

Product		Pieces/carton
<b>Internal corner type W</b>		<b>140</b>
<b>External corner type W</b>		<b>130</b>
<b>Internal corner TA/TAG</b>		<b>200</b>
<b>External corner TA/TAG</b>		<b>200</b>
<b>Standing seam effect profile</b>		<b>50 (= 100 m)</b>
<b>alwitra solvent welding agent</b>	tin at 3.0 l	<b>12</b>
<b>liquid EVALON®</b> white/light grey/slate grey	tin at 2.5 l	<b>4</b>

**Adhesives / cleaner / primer**

Product	Quantity	Packing unit / pallet
<b>alwitra adhesive L 40</b>	25 kg 9.5 kg	<b>12 containers</b> <b>30 containers</b>
<b>alwitra adhesive PUR S750</b>	750 ml	<b>12 tins</b> only full packing units at 12 tins/carton
<b>alwitra membrane cleaner</b> <i>not suitable for cleaning of the seam area!</i>	2 kg	
<b>alwitra cleaner L 40</b> (tool cleaner)	10 l	
<b>alwitra cleaner PUR S750</b>	500 ml	
<b>alwitra primer SK-L</b> for EVALON® VSK, EVALON® VGSK and EVALON® VSKA	25 l 10 l	<b>12 pieces</b> <b>42 pieces</b>
<b>alwitra primer SK<sup>1</sup></b> for EVALON® VSK, EVALON® VGSK and EVALON® VSKA	25 l 10 l	<b>12 pieces</b> <b>44 pieces</b>

<sup>1</sup> solvent free

Packing units EVALASTIC®

**EVALASTIC® waterproofing membrane, standard length 25 m**

Product	Width	m <sup>2</sup> /roll	kg/roll nominal thickness		Rolls/pallet *	Approx. kg/pallet gross	
			1.2 mm	1.5 mm		1.2 mm	1.5 mm
<b>EVALASTIC®</b> (unbacked)	1.05	26.25		<b>49</b>	15		<b>755</b>
	1.55	38.75		<b>72</b>	15		<b>1.100</b>
<b>EVALASTIC® V</b>	1.05	26.25	43	<b>52</b>	10	450	<b>540</b>
	1.55	38.75	63	<b>77</b>	10	650	<b>790</b>
	1.09	27.25		<b>54</b>	10		<b>560</b>
	1.59	39.75		<b>79</b>	10		<b>810</b>
<b>EVALASTIC® VG</b>	1.05	26.25		<b>54</b>	10		<b>560</b>
	1.55	38.75		<b>79</b>	10		<b>810</b>
<b>EVALASTIC® VGSK</b>	1.05	26.25		<b>58</b>	10		<b>600</b>

\* For orders in other units, we calculate a surcharge of 20.00 € per pallet

## Packing units EVALASTIC®

### EVALASTIC® prefabricated parts

Product	Pieces/carton
Internal corner type W	200
External corner type W	200
Standing seam effect profile	50 (= 100 m)

### Adhesives / cleaner / primer

Product	Quantity	Packing unit / pallet
<b>alwitra adhesive L 40</b>	25 kg 9.5 kg	<b>12 containers</b> <b>30 containers</b>
<b>alwitra adhesive PUR S750</b>	750 ml	<b>12 tins</b> only full packing units at 12 tins/carton
<b>alwitra membrane cleaner</b> <i>not suitable for cleaning of the seam area!</i>	2 kg	
<b>alwitra cleaner L 40</b> (tool cleaner)	10 l	
<b>alwitra cleaner PUR S750</b>	500 ml	
<b>alwitra primer SK-L</b> for EVALASTIC® VGSK and EVALASTIC® VSKA	25 l 10 l	<b>12 pieces</b> <b>42 pieces</b>
<b>alwitra primer SK<sup>1</sup></b> for EVALASTIC® VGSK and EVALASTIC® VSKA	25 l 10 l	<b>12 pieces</b> <b>44 pieces</b>

<sup>1</sup> solvent free

## Section 1 VALIDITY

(1) All the deliveries, services, and offers by alwitra shall be provided exclusively on the basis of these General Terms and Conditions of Delivery. These shall be part of all the contracts which alwitra shall conclude with their contract partners (hereinafter also "Principals") as to any deliveries or services offered by them. These terms shall also remain in effect for any future deliveries, services, or offers provided for the Principal, even if not agreed upon separately again.

(2) Terms and conditions of the Principal or of any third parties shall not apply, even if alwitra does not object their validity separately in the individual case. Even if alwitra refers to a letter containing the terms and conditions of the Principal or of any third party or referring to such terms and conditions, such reference shall not imply any consent with the validity of those terms and conditions.

(3) Any declarations and statements relevant in law (e. g., setting of deadlines, notice of defects, declaration of withdrawal or reduction) which are to be made by the Principal towards alwitra after the conclusion of a contract shall require written form or electronic form in order to come into effect.

(4) Our General Terms and Conditions of Delivery shall only be valid for companies in the sense of § 14 sec. 1 of the German Civil Code (BGB).

## Section 2 OFFER AND CONTRACT CONCLUSION

(1) All the offers shall be provided subject to confirmation and shall be non-binding, unless explicitly marked as binding or containing a specific term of acceptance. Orders can be accepted by alwitra within 14 days upon receipt.

(2) The legal relationships between alwitra and the Principal shall be defined exclusively by the conclusion of the purchase contract in written form, including these General Terms and Conditions of Delivery. The contract shall reflect all the agreements between the parties with respect to the object of the contract. Any oral commitments made by alwitra prior to the conclusion of the contract shall not be legally binding. Oral agreements between the parties shall be substituted by the contract in written form, unless their binding validity shall explicitly result from the respective agreements.

(3) Amendments and modifications of the stipulated agreements, including these General Terms and Conditions of Delivery, shall require written or electronic form in order to become effective. With the exception of Managing Directors or authorized signatories, alwitra's employees shall not be entitled to conclude any oral agreements differing there from. The written form shall be maintained sufficiently by a transmission via telefax message, the electronic form by email. Apart from that, the transmission by telecommunication shall not be sufficient.

(4) Information given by alwitra with respect to the object of delivery or service (e. g., weights, sizes, practical value, load-bearing capacity, tolerances, and technical data), as well as any representations thereof (e. g., drawings and images) shall only be approximately significant, unless the applicability for the purpose provided by the contract shall require an exact correspondence. They shall not be considered as guaranteed quality features, but as descriptions or characterizations of the delivery or of the service instead. Any deviations which are customary in the trade, which are caused by legal regulations, or which represent technical improvements, as well as the exchange of components by parts of equal quality shall be permitted, unless affecting the applicability for the purpose provided by the contract.

(5) alwitra shall reserve the ownership or the copyright of all the offers and estimates made or given by them, as well as of all the drawings, images, calculations, brochures, catalogues, models, tools, and other documents and auxiliary means made available to the Principal. The Principal shall not be entitled to make these objects or their contents available to any third parties without written consent by alwitra, nor to publish these, to use these themselves or let these be used by any third parties, or to copy these. Upon request by alwitra, they shall return these objects completely to the latter and destroy any copies which may have been made, as soon as the objects shall not be required any longer for the due course of business or if negotiations have not lead to the conclusion of a contract.

## Section 3 PRICES AND PAYMENT

(1) Prices shall be valid for the service and delivery determined within the order confirmations. Additional or special services shall be invoiced separately. Prices shall be calculated in EUROS ex works, plus: packaging, value-added tax, customs charges in the case of export shipments, fees, and other public charges.

(2) Insofar as the prices agreed upon shall be based on the catalogue prices by alwitra and the delivery shall take place more than four months after the conclusion of the contract, the valid prices shall be the catalogue prices by alwitra in effect at the time of delivery (minus any per cent or firm discount agreed upon).

(3) Invoices shall be payable without any deduction immediately upon their receipt, unless otherwise agreed upon in written form. Invoices shall be payable by SEPA Business-to-Business Direct Debit Scheme (B2B). Upon order confirmation, the Principal shall grant to alwitra a SEPA B2B Direct Debit mandate, signed by the bank. Cheques shall only be accepted as payment upon their encashment. If the Principal does not perform at maturity, the due sum shall be subject to an interest rate of 8 % above the annual basic interest rate as from the date of maturity. Any claims on higher interest rates and further damage caused by the default shall remain unaffected.

(4) Any offsetting against counterclaims of the Principal or the retention of payments on the grounds of such claims shall only be permitted insofar as the counterclaims shall be undisputed or determined without further legal recourse. In the case of defects of the delivery, the counterclaims of the Principal shall remain unaffected, especially according to section 6, no. 6, phrase 2 of these General Terms and Conditions of Delivery.

(5) alwitra shall be entitled to carry out deliveries or services which are still due only against advance payment or securities, if after the conclusion of the contract they receive information about circumstances which might essentially reduce the creditworthiness of the Principal and which will put at risk the payment of the outstanding debt by the Principal to alwitra on the grounds of the respective contractual relationship (including other individual orders covered by the same framework agreement).

(6) Any discounts or freight reimbursements granted to the Principal by alwitra shall be discontinued in the case of litigations with the Principal before a court, extra judicial settlement proceedings, insolvency proceedings, or delayed payment by the Principal.

## Section 4 DELIVERY AND TIME OF DELIVERY

(1) At the option of alwitra, deliveries shall be made ex works Trier or ex works Hermeskeil.

(2) At all times, periods and dates for deliveries and services held out in prospect by alwitra shall only be considered as approximate, unless a specific period or date has been explicitly confirmed or agreed upon. Insofar as shipping has been agreed upon, the periods and dates of delivery shall refer to the time of transfer to the Principal, the shipping company, the carrier, or any other third party engaged to take care of the transport.

(3) Without prejudice to their rights on the grounds of default caused by the Principal, alwitra shall be entitled to ask for an extension of the periods of delivery and service or a postponement of delivery and service dates, by the period during which the Principal has not performed their contractual obligations towards alwitra.

(4) alwitra shall not be liable for any impossibility or delay of delivery caused by force majeure or other events unpredictable at the time of conclusion of the contract, for which alwitra is not responsible (e. g., breakdowns of any type, difficulties in providing material or energy, transport delays, strikes, lawful lock-outs, shortages of manpower,

energy, or raw material, difficulties in providing necessary permits by authorities, regulatory actions, or deliveries by suppliers which are overdue, incorrect, or not in time). Insofar as such events essentially impede the delivery or make the delivery impossible for alwitra, and if such hold-ups are not of a temporary nature, alwitra shall be entitled to withdraw from the contract. In the case of hold-ups of temporary nature, the periods of delivery or service shall be extended, or the dates of delivery or service shall be postponed by the period of the hold-up, plus an appropriate start-up time. Insofar as the Principal cannot be expected to accept the delivery or service due to the delay, they shall be entitled to withdraw from the contract by immediate written notice to alwitra.

(5) alwitra shall be entitled to partial deliveries if

- the partial delivery is applicable by the Principal in the framework of the purpose determined within the contract,
- the delivery of the remaining merchandise which has been ordered is guaranteed, and
- if no considerable extra effort and expenses result there from for the Principal (unless alwitra shall declare to bear such expenses).

The transfer of an object of delivery or service to several shipping companies / carriers due to its type or amount shall not represent a partial delivery. The delivery of one of several different objects of purchase or service included within one order of the Principal shall neither represent a partial delivery.

(6) If alwitra is in default with respect to a delivery or service, or if a delivery or service becomes impossible for alwitra for whatever reason, alwitra's liability for damages shall be restricted according to section 8 of these General Terms and Conditions of Delivery.

(7) If the Principal is in default of acceptance, refrains from a duty to collaborate, or is responsible for the delay of delivery by alwitra for any other reasons, alwitra shall be entitled to claim the resulting damages including extra expenses (e. g., storage costs). alwitra shall calculate a lump-sum compensation to the amount of 0.5 % of the order sum per calendar week, beginning with the period of delivery or – in the absence of a period of delivery – the notice that the order is ready for dispatch; the limit of 15 % of the net contract amount shall not be exceeded. Evidence of a higher damage as well as any legal claims of alwitra (in particular reimbursement of extra expenses, appropriate compensation, termination) shall remain unaffected; the lump-sum shall however be offset against any further monetary claims. The Principal shall remain entitled to prove that alwitra has not suffered any damage or only an essentially lower damage than the above stated lump-sum.

(8) The return of merchandise shall only be accepted free of transport charges if previously agreed upon in written form by alwitra. In this case, the Principal shall bear the risk of transport until the merchandise shall be transferred back to alwitra, at alwitra's option at their works in Trier or Hermeskeil. The return of packaging shall also be agreed upon separately.

## Section 5 PLACE OF PERFORMANCE, SHIPPING, PACKAGING, TRANSFER OF RISK, ACCEPTANCE

(1) Place of performance for all obligations resulting from the contractual relationship shall be, at alwitra's option, their works in Trier or Hermeskeil, depending on the works from which the delivery shall be provided and unless agreed upon differently. If alwitra is also obliged to make the installation, place of performance shall be the place where the installation is supposed to take place.

(2) The type of shipping and the packaging shall be at the dutiful discretion of alwitra.

(3) The risk shall be transferred at the latest at the time of transfer of the object of delivery (the significant time being the beginning of the loading process) to the Principal, shipping company, carrier, or other third party engaged to take care of the shipping. This shall also hold in the case of partial deliveries or if alwitra has taken over any further services (e. g., shipping or installation). If the shipping or the transfer is delayed on the grounds of reasons for which the Principal is responsible, the risk shall be transferred to the Principal on the day when the object of delivery shall be ready for dispatch and a respective notice shall have been given to the Principal by alwitra.

(4) Storage costs after the transfer of risks shall be borne by the Principal. In the case of storage by alwitra, storage costs shall amount to 0.25 % of the sum invoiced for the objects to be stored, per calendar week expired. The claim and evidence of any further or lower storage costs shall remain reserved. Storage costs shall be offset against the compensation pursuant to section 4 no. 7.

(5) The shipping shall only be insured by alwitra against theft, breakage, damage due to transport, fire or water, or any other insurable damage, if such is expressly desired by the Principal, and at the expense of the latter.

(6) Insofar as acceptance is required, the object of purchase shall be considered as accepted if

- the delivery and the installation – insofar as alwitra is also obliged to take care of the installation – have been concluded,
- alwitra has given notice to the Principal about such fact, adverting them to the assumed acceptance according to this section 5 (6), and has asked them to declare acceptance,
- 12 working days have passed since the delivery or installation, or if the Principal has started to use the object of purchase (e. g., has taken into operation the delivered system), and in such case [six] working days have passed since the delivery or installation, and if
- the Principal has restrained from acceptance within this period for another reason than due to a defect of which they have given notice to alwitra and which makes impossible the use of the object of purchase or essentially impairs such use.

## Section 6 WARRANTY, MATERIAL DEFECTS

(1) The rights of the Principal in the case of material and legal defects (including wrong or short delivery and unprofessional assembly or insufficient assembly instructions) shall be regulated by the statutory provisions, unless determined differently in the following. The statutory special provisions in the case of final delivery of the unprocessed merchandise to a consumer shall remain unaffected in any case, even if the latter has further processed the merchandise (supplier regress pursuant to § 478 BGB). Any claims on the grounds of supplier regress shall be excluded if the defective merchandise has been further processed by the Principal or by another company, e. g., through integration into another product.

(2) alwitra's liability for defects shall especially be based on the agreement concluded with respect to the quality of the merchandise. All such product descriptions and producer's information shall be considered as agreement on the quality of the merchandise, as these are object of the individual contract or have been made public by alwitra at the time of conclusion of the contract (in particular in catalogues or on our website).

(3) Insofar as the quality has not been agreed upon, it shall be assessed according to the statutory provisions whether a defect has occurred or not (§ 434 sec. 1 phrases 2 and 3 BGB). We shall however not be liable for any public statements of the producer or of other third parties (e. g., advertising messages), which the Principal has not indicated to alwitra as having been decisive for their purchase.

(4) alwitra shall principally not be liable for defects that the Principal has known about at the time of conclusion of the contract or has not known due to gross negligence (§ 442 BGB). The delivered objects shall be thoroughly examined immediately upon delivery to the Principal or to a third party determined by the latter. They shall be considered as accepted unless alwitra shall have received, pursuant to section 2 (3) phrase 1,

a written notice of defects with respect to obvious defects or other defects realized during an immediate and thorough examination, within seven workdays upon delivery of the object of delivery or otherwise within seven workdays upon realization of the defect, or at each earlier time when the defect shall have become obvious to the Principal during the normal use of the object of delivery without a thorough examination. In the case of building material and other merchandise intended for integration or other further processing, the merchandise shall be examined in any case immediately before processing. Upon alwitra's request, the faulty object of delivery shall be sent back to alwitra free of transport charge. In the case of a justified notice of defects, alwitra shall reimburse the costs for the cheapest type of transport; this shall not hold if the costs have increased because the object of delivery is located at a different place than the place of its intended use.

(5) In the case of material defects of the delivered objects, alwitra shall be obliged and entitled first to supplementary performance, at their option to be selected within an appropriate period, in the form of removal of the defect (amendment) or delivery of an object free from defects (replacement delivery). Supplementary performance shall not include the disassembly of the defective object or the renewed assembly if we have not been obliged to provide assembly in the first place. In the case of failure, i. e. if amendment or replacement delivery have become impossible, unacceptable, or have been refused or inappropriately delayed, the Principal shall be entitled to withdraw from the contract or to reduce the purchase price adequately. If the defect is insignificant, any right to withdraw shall not exist.

(6) alwitra shall be entitled to request that the owed supplementary performance depend on the payment of the due purchase price by the Principal. However, the Principal shall be entitled to withhold a part of the purchase price adequate in relation to the defect.

(7) Any expenses required for the purposes of examination and supplementary performance, in particular transport, travel, labor, and material costs, as well as costs for disassembly and renewed assembly, if applicable, shall be borne or reimbursed by alwitra pursuant to the statutory provisions if a defect actually exists. Otherwise, alwitra shall be entitled to request reimbursement of the costs resulting from unjustified requests for the rectification of defects by the Principal (in particular, inspection and transport costs), unless the Principal has not been able to recognize the lack of defectiveness.

(8) If a defect is caused by alwitra, the Principal may claim damages on the conditions determined in section 8.

(9) In the case of defects of components produced by other companies, which alwitra is not able to remedy due to license or actual reasons, alwitra shall at their option assert their warranty claims against the producers and suppliers for account of the Principal, or shall assign such claims to the Principal. On the usual conditions and according to these Terms and Conditions of Delivery, any warranty claims against alwitra may only be put forward in such cases if the enforcement of the aforementioned claims against the producer and supplier before a court have not been successful, or appear to have no prospect of success, for example because of insolvency. During the lawsuit, the limitation of the respective warranty claims of the Principal against alwitra shall be suspended until the lawsuit is over.

(10) The warranty shall be canceled if the Principal modifies the object of delivery or has the latter modified by third parties without consent of alwitra, which has made the elimination of defects impossible or impaired such elimination unacceptably. In any case, the Principal shall bear the extra costs of the defect elimination resulting from such modification.

(11) A delivery of used objects agreed upon with the Principal in the individual case shall exclude any warranty for material defects.

(12) Any rights of recourse of the customer / Principal against alwitra pursuant to § 445 a BGB (recourse of the seller) shall only exist insofar as the customer / Principal has not concluded any agreements with their buyer extending beyond the legal claims for defects.

## Section 7 INTELLECTUAL PROPERTY RIGHTS

(1) Pursuant to this section 7, alwitra shall guarantee that the object of delivery is free from any industrial property rights or copyrights of any third parties. Each party to the contract shall immediately inform the other party in written form or by email if any claims are put forward against them on the grounds of a violation of such rights.

(2) If the object of delivery violates an industrial property right or copyright of any third party, alwitra shall at their option and at their expenses modify or exchange the object of delivery in such a way that no rights of third parties shall be violated any longer and the object of delivery shall still fulfill the functions stipulated within the contract. Otherwise, alwitra shall provide to the Principal the right of use by concluding a license agreement. If alwitra does not succeed in doing so within an appropriate period, the Principal shall be entitled to withdraw from the contract or to reduce the purchase price adequately. Any possible claims on damages of the Principal shall be subject to the restrictions of section 8 of these General Terms and Conditions of Delivery.

(3) In the case of a violation of law by products of other companies delivered by alwitra, alwitra shall at their option assert their claims against the producers and presuppliers for account of the Principal, or assign such claims to the Principal. Claims against alwitra may only be asserted in these cases according to this section 7 if the enforcement of the aforementioned claims against the producers and presuppliers before a court have not been successful, or appear to have no prospect of success, for example because of insolvency.

## Section 8 LIABILITY FOR DAMAGES ON THE GROUNDS OF FAULT

(1) alwitra's liability for damages for whatever legal reason, in particular on the grounds of impossibility, default, defective or wrong delivery, violation of the contract, violation of obligations during contract negotiations, and tortious acts, shall be restricted pursuant to this section 8 insofar as it comes down to a fault in the respective case.

(2) alwitra shall not be liable in cases of ordinary negligence of their bodies, legal representatives, employees, or other vicarious agents, unless any essential contractual obligations have been violated. Essential contractual obligations shall be the obligation to deliver and install the object of delivery free from essential defects, as well as duties to consult, protect, and exercise proper care, which are intended to enable the Principal to use the object of delivery according to the contract, or have the purpose of protecting health and life of the Principal's employees or the Principal's property against considerable damage.

(3) Insofar as alwitra shall be liable for damages on the merits according to section 8 (2), such liability shall be restricted to damage which alwitra has foreseen at the time of conclusion of the contract as a possible consequence of a violation of the contract, or which they should have foreseen if due diligence was applied. Besides, indirect or consequential damage resulting from defects of the object of delivery shall only be remedied insofar as such damage shall typically be expected if the object of delivery is used as intended.

(4) The aforementioned disclaimers and restrictions of liability shall also be valid to an equal extent in favor of the bodies, legal representatives, employees, and other vicarious agents of alwitra.

(5) Insofar as alwitra provides technical information or consultation and this information or consultation is not part of the scope of performance stipulated within the contract and owed by them under the contract, they shall do so free of charge and to the exclusion of any liability.

(6) The restrictions of this section 8 shall not apply to alwitra's liability on the grounds of willful behavior, guaranteed quality features, the violation of life, limb, or health, or the German Product Liability Act.

## Section 9 RETENTION OF TITLE

(1) The retention of title agreed upon in the following shall serve for the securitization of all the existing current and future claims of alwitra against the Principal on the grounds of the relationships of delivery existing between the parties to the contract (including balance claims on current accounts restricted to this relationship of delivery).

(2) The merchandise delivered to the Principal by alwitra shall remain in the ownership of alwitra until the complete payment of all the secured receivables. The merchandise, as well as the merchandise subject to retention of title substituting the former pursuant to this clause, shall be called merchandise subject to retention of title hereinafter.

(3) The Principal shall store the merchandise subject to retention of title free of charge for alwitra.

(4) The Principal shall be entitled to process and sell the merchandise subject to retention of title in the due course of business until an event of enforcement may occur (section 9). Any pledges and assignments as security shall not be permitted.

(5) If the merchandise subject to retention of title is processed by the Principal, it shall be agreed upon that the processing shall take place in the name and for account of alwitra as producer, and that alwitra shall acquire direct ownership or – if the processing comprises materials of several owners or the value of the processed object is higher than the value of the merchandise subject to retention of title - co-ownership (part ownership) of the created new object, at the ratio of the value of the merchandise subject to retention of title and the value of the created new object. For the case that no such acquisition of ownership has occurred for alwitra, the Principal shall already now transfer their future ownership or – at the above-mentioned ratio – co-ownership of the created new object as security to alwitra. If the merchandise subject to retention of title is to be combined with other objects in order to form a homogeneous object, or is mixed inseparably with another object, and if one of the other objects is to be considered the main object, alwitra shall transfer to the Principal, insofar as they own the main object, the co-ownership of the homogeneous object proportionally, at the ratio mentioned in phrase 1.

(6) In the case of a resale of the merchandise subject to retention of title, the Principal shall already now assign to alwitra as security the claim against the Principal resulting there from – in the case of a co-ownership of alwitra of the merchandise subject to retention of title, in proportion to the co-ownership share; alwitra shall accept such assignment. The same shall hold for any further claims substituting the merchandise subject to retention of title or otherwise resulting with respect to the merchandise subject to retention of title, for example insurance claims or claims on the grounds of unlawful acts in the case of loss or destruction. alwitra shall authorize the Principal revocably to collect the claims assigned to alwitra in their own name. alwitra shall only revoke this authority in the case of enforcement.

(7) If any third parties seize the merchandise subject to retention of title, in particular by attachment, the Principal shall immediately indicate the ownership of alwitra and shall inform alwitra of such seizure, in order to enable alwitra to enforce their ownership rights. Insofar as the third party shall be unable to reimburse alwitra for the judicial or extrajudicial costs resulting there from, the Principal shall be liable towards alwitra.

(8) At their option, alwitra shall release the merchandise subject to retention of title as well as the objects or claims substituting such merchandise upon request, insofar as their value shall exceed the amount of the secured claims by more than 50 %.

(9) If alwitra withdraws from the contract on the grounds of a behavior of the Principal in violation of the contract – in particular in the case of default in payment - (case of enforcement), they shall be entitled to request the surrender of the merchandise subject to retention of title.

## Section 10 STATUTE OF LIMITATIONS

(1) The warranty period shall be one year upon delivery or, insofar as acceptance is required, upon acceptance. Any claims on the reimbursement of expenses of the Principal pursuant to § 445a BGB (recourse of the seller) shall also be statute-barred after one year upon the beginning of the statutory limitation period, on the condition that the last contract of the supply chain has not been a purchase of consumer goods. If the merchandise is a building or an object which has been used for a building according to its usual application and has caused the building's defectiveness (building material), the statute of limitation shall be 5 years upon delivery pursuant to the legal regulations (§ 438 sec. 1 no. 2 BGB). Electrical or mechanical components that can be exchanged without interfering with a building (for example drives or switches) do not represent merchandise which has been used for a building according to its usual application and has caused the building's defectiveness. Specific legal regulations with respect to claims for surrender in rem by third parties (§ 438 sec. 1 no. 1 BGB), for the case of willful deceit by the seller (§ 438 sec. 3 BGB), and with respect to claims in connection with the recourse of suppliers in the case of delivery to the end consumer (§ 478 BGB), shall also remain unaffected.

(2) The above indicated statutes of limitation of the Sale of Goods Law shall also hold for contractual and non-contractual claims on damages of the Principal that have arisen from a defect of the merchandise, unless the application of the regular statute of limitations results in a shorter limitation in the individual case (§ 195, § 199 BGB). Claims on damages of the Principal pursuant to section 8, point 2, phrase 1, part 2, and phrase 2, as well as pursuant to the Product Liability Act, shall be statute-barred exclusively according to the statutory limitation periods.

(3) The restrictions of this section 10 shall not apply to alwitra's liability on the grounds of willful behavior, guaranteed quality features, the violation of life, limb, or health, or the German Product Liability Act.

## Section 11 FINAL PROVISIONS

(1) In the case of any possible litigation in connection with the business relations between alwitra and the Principal, at the option of alwitra the place of jurisdiction shall either be Trier or the place of business of the Principal. In the case of actions against alwitra, the exclusive place of jurisdiction shall be Trier. Any obligatory statutory regulations with respect to exclusive places of jurisdiction shall remain unaffected by this provision.

(2) The relations between alwitra and the Principal shall exclusively be subject to the law of the Federal Republic of Germany. The United Nations Convention on Contracts for the International Sale of Goods of 11 April 1980 (CISG) shall not hold.

(3) Should the contract or these General Terms and Conditions of Delivery contain any regulatory gaps, in order to fill in such gaps, those legally effective regulations shall be considered as agreed upon which the parties to the contract would have agreed upon according to the economic purposes of the contract and the purpose of these General Terms and Conditions of Delivery, if they had known the regulatory gap.

## DATA PROTECTION INFORMATION

The Principal shall take note and shall agree upon placing an order that alwitra shall process the necessary data resulting from the contractual relationship with respect to art. 6 sec. 1 lit. a, b, f of the GDPR, for purposes of performance of the contract, and shall retain the right to transfer the data to third parties (e.g., insurance companies or logistic service partners) insofar as required for the performance of the contract. Please find any further information on the processing of personal data pursuant to art. 13 and 14 GDPR, as well as information concerning the rights of the parties concerned pursuant to art. 15 – 21 GDPR on our website: <https://alwitra.de/datenschutz/>.

# Information and additional delivery conditions

## 1. Storability

Some of our products have a limited storability. Please take care of the imprints on the containers.

## 2. Redemption of goods

For redemption of goods (after reconciliation only) we are invoicing storage and freight charges.

## 3. Fastener

Delivery content is generally without fasteners.

## 4. Special corners / roundings

- Prices for non rectangle corners and/or of standard corners deviant leg lengths on request.
- Prices for roundings on request.

## 5. Special lengths and fitting pieces for aluminium profiles

For delivery

- of ready-to-fit pieces in lengths, which are different to the standard lengths (= special lengths) and
- of pieces in lengths, which are different to the standard lengths and which have to be cutted on site into the needed lengths (fitting piece) a surcharge of 20 % of the price per m will be invoiced additionally. The additional demand for brackets and accessories due to special lengths supplied ex factory is included in this surcharge.

## 6. Corner leg lengths MAG / MAK

Up to 300 mm crown width the corner leg lengths of the profiles are 50 cm / 50 cm.

Over 300 mm crown width they are = crown width + 20 cm.

## 7. Aluminium untreated (mill finish)

Mill finished aluminium profiles delivered by alwitra are untreated and must be stored dry and weather protected. Water spots and corrosion can lead to irreparable damages by incorrect storage (e.g. by not opening the transport packaging). For mill finished profiles toolmarks such as light grooves, cords and fingerprints are admissible and do not constitute any defect. For a decorative surface we recommend a colour coating.

## 8. Colour Coating (CC)

The colour categories „alwitra select“ and „alwitra select plus“ (for further information see [www.alwitra.de/en/aluminium-profiles/synthetic-coatings](http://www.alwitra.de/en/aluminium-profiles/synthetic-coatings)) is characterized by a highly weatherproof powder quality (HWP, GSB-Master).

The billing of this colour category will be done according to the valid price list. The minimum coating values per colour and delivery are:

- **alwitra select:** minimum lump-sum for CC: 150.00 € gross.
- **alwitra select plus:** The billing will be done according to the valid price list for the colour category „alwitra select“ plus a surcharge of 25 %. The minimum lump-sum for colour coating amounts 550.00 € gross.
- **Other colours RAL CLASSIC:** All other colours of the RAL CLASSIC colour range are generally available only in the facade quality "GSB Standard" (not highly weatherproof). The billing will be done according to the valid price list for the colour category „alwitra select“ plus a surcharge of 10 %. The minimum coating value for other colours of the RAL CLASSIC colour range amounts: 300.00 € gross. Not available are e.g. fluorescent colours (RAL 1026, 2005, 2007, 3024, 3026).
- **Special colours,** that deviate from the RAL CLASSIC colour range, are – if deliverable – carried out by alwitra solely after a project-related testing and approval at extra cost.

## 9. Anodic oxidation (anodizing)

Prices for anodic oxidations acc. to DIN 17611 in E6/C0 resp. E6/EV1 on request. Colour divergances, which are caused by material and process related variations may not be avoided and do not constitute any shortage.

Marks of electrodes caused by production can appear at the component part and do not constitute any shortage likewise.

## 10. Cleaning and care

Coloured or anodized surfaces generally meet highly decorative requirements, also in the long run. Subject to the particular conditions of strain a scheduled cleaning and care is required at least once a year. In case of intense environmental impacts this needs to be done more often.



# alwitra<sup>a</sup>

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Technical changes reserved

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